NOTICE TO THE PUBLIC
WILLIAMSON COUNTY COMMISSIONER'S COURT
OCTOBER 17TH, 2017
9:30 A.M.

The Commissioner's Court of Williamson County, Texas will meet in regular session in the Commissioner's Courtroom, 710 Main Street, in Georgetown, Texas to consider the following items:

1. Review and approval of minutes.

2. Consider noting in minutes any off right-of-way work on any County road done by Road & Bridge Division.

3. Hear County Auditor concerning invoices, bills, Quick Check Report, wire transfers and electronic payments submitted for payment and take appropriate action including, but not limited to approval for payment provided said items are found by the County Auditor to be legal obligations of the county.

4. Citizen comments. Except when public hearings are scheduled for later in the meeting, this will be the only opportunity for citizen input. The Court invites comments on any matter affecting the county, whether on the Agenda or not. Speakers should limit their comments to three minutes. Note that the members of the Court may not comment at the meeting about matters that are not on the agenda.

CONSENT AGENDA
The Consent Agenda includes non-controversial and routine items that the Court may act on with one single vote. The Judge or a Commissioner may pull any item from the consent agenda in order that the court discuss and act upon it individually as part of the Regular Agenda.
(Items 5 – 12)

5. Discuss, consider and take appropriate action on a line item transfer for the On-Site Sewage Facilities.

Fiscal Impact

From/To	Acct No.	Description	Amount
From	0100-0409-004998	Non Dept/Contingencies	$44,821.56
To	0100-0661-005700	OSSF/Vehicles	$44,821.56

6. Discuss, consider and take appropriate action on approving compensation changes, position titles changes, position grade changes and any corresponding line item transfers.

7. Discuss, consider and take appropriate action to approve Justice of the Peace, Pct. 4, September 2017 Monthly Report in compliance with Code of Crim. Proc. § 103.005.

8. Discuss, consider and take appropriate action on authorizing the disposal of various county assets through auction including (10) Chairs, (1) Desk, (1) Projector, (17) Laptop cases, (1) Mouse and Keyboard, (2) Voice recorders, (4) Docking station, (1) Monitor, (3) Laptops, (1) Computer, (3) Mic speakers, (1) Battery, (1) Misc.cords, (1) Printer, (12) Keyboards, (11) Mice, (see attached lists) pursuant to Tx. Local Govt code 263.152.

9. Discuss, consider and take appropriate action on approving property tax collections for the month of September 2017 for the Williamson County Tax Assessor/Collector.

10. Discuss, consider and take any appropriate action regarding approval and receipt of Vehicle Reimbursement Agreement with Circuit of The Americas (COTA).

11. Discuss, consider and take appropriate action on Work Authorization No 1 in the amount of $60,000.00 to expire December 31, 2017 under Williamson County contract for Engineering Services between Professional Service Industries Inc and Williamson County dated May 25, 2017 for Construction Materials Testing and Inspection for the Williamson County Georgetown Annex Project for Williamson County.

12. Discuss, consider, and take appropriate action on approval of the final plat for the 313 Commercial Subdivision - Pct 3

REGULAR AGENDA

13. Receive and acknowledge the October 2017 Construction Summary Report for the Road Bond and Pass Through Financing Programs.

14. Discuss, consider and take appropriate action on the Department of Infrastructure projects and issues update.

15. Discuss, consider and take appropriate action on a Contract Amendment No. 1 to the Seward Junction Southwest contract between Williamson County and K Friese + Associates, Inc. relating to the 2013 Road Bond Program. Project: P274. Funding Source: Road Bonds.

16. Discuss, consider and take appropriate action on a Contract Amendment No. 3 to the Seward Junction Southeast contract between Williamson County and Aguirre-Fields, LP relating to the 2013 Road Bond Program. Project: P271. Funding Source: Road Bonds.

17. Discuss, consider and take appropriate action regarding the temporary use of the lowest level of the parking garage by the Sheriff's Office. The anticipated time period is not anticipated to exceed six months.

18. Discuss, consider and take appropriate action regarding the appointment of Robert B. Daigh P.E. as the Williamson County representative of the CAMPO Technical Advisory Committee and Katheryn Cromwell AICP as an alternate member for fiscal year 2018.

19. Discuss FY 18 allocation of funding for the Capital Improvement Program.

20. Discuss, consider and take appropriate action to approve the projects and budgets for the 2018 Capital Improvement Program.

21. Discuss, consider and take appropriate action to approve the use of unallocated funds for the 2013, 2014, and 2017 Capital Improvement Programs, to include assigning funds to new projects.

22. Discuss, consider and take appropriate action on a Real Estate Contract with Rummel and Rohde Farms. LTD. for right of way needed on CR 101; Road Bond Project Funding Source- P269

23. Discuss, consider and take appropriate action on a Real Estate contract with John and Mary Bigon for right of way needed on CR 101; Road Bond Project Funding Source- P269

24. Discuss, consider and take appropriate action on an Order Abandoning County Road 123.

25. Discuss, consider and take appropriate action on an Economic Development Agreement with Texas State Gold Depository.

26. Discuss and take appropriate action on distribution of funds for the Hutto Education Foundation from the Waste Management Landfill Fund.

27. Discuss, consider and take appropriate action to approve the Tax Collection Agreement between the City of Leander serving as Agent for Deerbrooke Public Improvement District and the County of Williamson, Texas.

28. Discuss and take appropriate action to appoint Commissioner Covey to CAPCOG General Assembly.

29. Discuss, consider and take appropriate action on naming the new Williamson County Sheriff's Office Training Center located at 8160 Chandler Rd., Hutto to the "Deputy A. W. Grimes Law Enforcement Training Center".

30. Discuss and take appropriate action on the Local Initiative Project (LIP) grant from the Texas Commission on Environmental Quality (TCEQ) to implement and enhance enforcement of counterfeit registration insignias (i.e., counterfeit temporary/provisional license plates) and related counterfeit vehicle inspection reports.

31. Discuss and take appropriate action on transferring $70,000 from the Fiscal Year 2016 Community Development Block Grant Granger Sewer Project to the Fiscal Years 2014 and 2015 Community Development Block Grant Granger Drainage Project.

32. Discuss, consider and take appropriate action on the creation and authorization of a Williamson County Local Provider Participation Fund pursuant to Chapter 292B of the Texas Health & Safety Code, adoption of Williamson County Health Care Participation Program Rules and Procedures governing the operations of a Local Provider Participation Program and setting the rate associated with mandatory provider participation payments that Williamson County may require of all local hospitals for fiscal year (FY) 2018 and how the revenue derived from those payments may be spent.

33. Discuss, consider and take appropriate action on a Utility Easement to the City of Georgetown for the placement of an electrical transformer needed for the Palace Theater's construction project located near Rock Street in Georgetown, Texas.

34. Discuss, consider and take appropriate action on an authorized use agreement with Mirth Films to film in the historic jail on Wednesday, October 18, 2017.

35. Discuss, consider and take appropriate action regarding agreement with Charter Communications Operating, LLC d/b/a Spectrum for new and revised services for fiber internet and ethernet to support county operations.

36. Discuss, consider and take appropriate action regarding agreement with Charter Communications Operating, LLC d/b/a Spectrum for revised internet services at EMS stations to support county operations.

37. Discuss, consider and take appropriate action on approving the contract statement of work from Motorola Solutions, Inc. to complete the expansion of the current in-building DAS (Distributed Antenna System) to the Williamson County Sheriff's Office administration footprint of the complex. (Note: procurement made pursuant to the Houston-Galveston Area Council HGAC contract #RA05-15).

38. Discuss, consider and take appropriate action on awarding the proposal received for RFP # 1708-185 Pharmaceutical Service and Supplies for Williamson County Jail to Westwood Pharmacy.

39. Discuss, consider, and take appropriate action on authorizing the Purchasing Agent to advertise and receive sealed bids for Neenah Avenue Widening under IFB # 1710-194.

40. Discuss, consider, and take appropriate action on authorizing the Purchasing Agent to advertise and receive sealed bids for Portland Cement under IFB # 1710-195.

41. Discuss, consider, and take appropriate action on authorizing the Purchasing Agent to advertise and receive sealed bids for Crushed Granite Base under IFB # 1710-196.

42. Discuss, consider, and take appropriate action on authorizing the extension of Asphalt Mixes, contract #1509-010, for the same pricing, terms and conditions as the existing Contract for the term of November 3, 2017 - November 2, 2018, with Austin Materials, LLC.

EXECUTIVE SESSION

"The Commissioners Court for Williamson County reserves the right to adjourn into executive session at any time during the course of this meeting to discuss any of the matters listed above, as authorized by Texas Government Code Sections 551.071 (Consultations with Attorney), 551.072 (Deliberations regarding Real Property), 551.073 (Deliberations regarding Gifts and Donations), 551.074 (Personnel Matters), 551.076 (Deliberations regarding Security Devices) and 551.087 (Deliberations regarding Economic Development Negotiations)."

43. Discussion regarding economic development negotiations pursuant to Texas Government Code, Section 551.087:
a) Business prospect(s) that may locate or expand within Williamson County.
b) Discuss Pearson Road District.
c) Discuss North Woods Road District.
d) Project Columbus Balbo
e) Mega Site
f) Texas State Gold Depository
g) Project New World
h) Coop District Development
i) Project Amazon

44. Discuss real estate matters (EXECUTIVE SESSION as per VTCA Govt. Code sec. 551.072 Deliberation Regarding Real Estate Property if deliberation in an open meeting would have a detrimental effect on the position of the governmental body in negotiations with third person.)
A. Real Estate Owned by Third Parties
1. Preliminary discussions relating to proposed or potential purchase or lease of property owned by third parties
a) Discuss the acquisition of real property for right-of-way for N. Mays St. Extension
b) Discuss the acquisition of real property for SW 183 and SH 29 Loop.
c) Discuss the acquisition of real property for CR 176 at RM 2243
d) Discuss the acquisition of real property with endangered species for mitigation purposes.

e) Discuss the acquisition of real property: CR 101
f) Discuss the acquisition of real property: CR 111
g) Discuss the acquisition of real property for CR 278 at Bagdad Rd.
h) Discuss the acquisition of real property for proposed CR 110 project. (All sections)
i) Discuss the acquisition of real property for County Facilities.
j) Discuss the acquisition of Easement interests for the Brushy Creek Trail Project.
k) Discuss acquisition of property located at NEC of Toll 130 and Gattis School Rd.
l) Discuss the acquisition of a drainage easement for CR 108.
m) Discuss easement acquisitions from San Gabriel River Ranch Subdivision.
n) Discuss the acquisition of real property for CR 278 @ Bagdad Rd.
o) Discuss the acquisition of real property for Seward Junction SE Loop.
p) Discuss the acquisition of real property for US 183.
q) Discuss the acquisition of real property for Hairy Man Rd.
r) Discuss the acquisition of real property for SW Bypass.
s) Discuss the acquisition of real property for Crossroad Acres.
t) Discuss proposed acquisition of real property on CR 138.
u) Discuss proposed acquisition of real property at Highland Springs Lane.
v) Discuss Somerset Road Districts No. 3 & 4 reimbursements for acquisition & construction of Reagan Blvd.
w) Discuss Cedar Hollow low water crossings and Lost River.
x) Discuss the acquisition of real property- Condra Funeral Home- Taylor, Texas
y) Discuss the acquisition of real property- S&D Plumbing- Taylor, Texas
z) Discuss the acquistiion of Real Estate for Tower Site.

B. Property or Real Estate owned by Williamson County
1). Preliminary discussions relating to proposed or potential sale or lease of property owned by the County
a) Discuss County owned real estate containing underground water rights and interests.
b) Discuss possible sale of 183 A excess right of way
c) Discuss proposed sale of real estate of Blue Springs Blvd
d) Discuss transfer of right of way for Westinghouse Rd. to the City of Georgetown.
e) Discuss wastewater easements in Berry Springs Park
f) Discuss Development Agreement with Ashby Capital Investments, LLC
g) Discuss sale of County property on Ronald Reagan Blvd.
h) Discuss abandonment of County property on CR 123.
i) Discuss possible sale or exchange of property at 350 Exchange Boulevard, Hutto, Texas
j) Discuss possible sale of +/- 10 acres located on Chandler Road near the County Sheriff's Office Training Facility
k) Discuss possible sale/disposition of a portion of CR 117.
l) Discuss possible sale or exchange of property to LCRA.
m) Discuss sale of property adjacent to Blue Springs Boulevard, Georgetown, Texas.

C. Consider intervention in lawsuit regarding de-listing of Bone Cave harvestman.

45. Discuss pending or contemplated litigation, settlement matters and other confidential attorney-client legal matters (EXECUTIVE SESSION as per VTCA Govt. Code sec. 551.071 consultation with attorney.), including the following:

a) Litigation or claims or potential litigation or claims against the County or by the County
b) Status Update-Pending Cases or Claims;
c) Civil Action No.1:13- CV- 505, Robert Lloyd v. Lisa Birkman, et al, In The United States District Court for the Western District of Texas, Austin Division
d) Employee/personnel related matters
e) Other confidential attorney-client matters, including contracts and certain matters related to county defense issues in which the duty of the attorney to the governmental body within the attorney/client relationship clearly conflicts with Chapter 551 of the Texas Government Code.
f) Cause No. 15-0064-C277, Gordon v. Dollahite et al, In The District Court of Williamson County, Texas, 277th District
g) County Road 241 utility and Right-of-Way Issues and matters;

h) Civil Action No. 1:15-cv-431; Herman Crisp v. Williamson County, et al; In the USDC-WD-Austin Division
i) Carolyn Barnes, et al v. Texas Attorney General, et al; Cause # D-1-GN-15-000877, in the 419th Judicial District Court of Travis County
j) Appeal of IRS Proposed Worker Classification Changes and Proposed Tax Adjustments 2011 -2013; and Payment of Disputed Employment Taxes Pending Appeal
k) Discuss proposed acquisition of property for SW 183 and SH 29 Loop
l) Civil Action; American Stewards of Liberty, et al. v. Sally Jewell, et al., In the Western District Court, Western District of Texas, Austin Division
m) Berry Springs Park and Preserve pipeline
n) Case No. 1:17-cv-00290, Rodney A. Hurdsman v. Williamson County Sheriff Deputies Pokluda et al, In The Unites States District Court For The Western District of Texas – Austin Division.
o) Civil Action No. 1:17-cv-153-SS, Royce Belcher v. Williamson County, Texas, In The United States District Court for the Western District of Texas, Austin Division.
p) Tax Increment Financing Agreement between Williamson County and the City of Hutto with respect to a proposed tax increment reinvestment zone (TIRZ) in Hutto, Teaxas.
q) Claim of AT&T Corp. for Damages to Aerial Fiber Optic Cable and Pole at Hwy 29 and CR 366

46. Deliberate the appointment, employment, evaluation, reassignment, duties, discipline and/or dismissal of Williamson County officers, directors, employees and/or positions, including but not limited to conducting deliberation and discussion pertaining to annual reviews of department heads and appointed officials (Executive Session as per Tex. Gov. Code Section 551.074 – Personnel Matters).

47. Discuss the deployment or specific occasions for implementation of security personnel or devices in relation to the Williamson County Justice Center (Executive Session as per Texas Gov't. Code § 551.076).

REGULAR AGENDA (continued)

48. Discuss and take appropriate action concerning economic development.

49. Discuss and take appropriate action concerning real estate.

50. Discuss and take appropriate action on pending or contemplated litigation, settlement matters and other confidential attorney-client legal matters, including the following:

a) Litigation or claims or potential litigation or claims against the County or by the County
b) Status Update-Pending Cases or Claims;
c) Civil Action No.1:13- CV- 505, Robert Lloyd v. Lisa Birkman, et al, In The United States District Court for the Western District of Texas, Austin Division
d) Employee/personnel related matters
e) Other confidential attorney-client matters, including contracts and certain matters related to county defense issues in which the duty of the attorney to the governmental body within the attorney/client relationship clearly conflicts with Chapter 551 of the Texas Government Code.
f) Cause No. 15-0064-C277, Gordon v. Dollahite et al, In The District Court of Williamson County, Texas, 277th District
g) County Road 241 utility and Right-of-Way Issues and matters;
h) Civil Action No. 1:15-cv-431; Herman Crisp v. Williamson County, et al; In the USDC-WD-Austin Division
i) Carolyn Barnes, et al v. Texas Attorney General, et al; Cause # D-1-GN-15-000877, in the 419th Judicial District Court of Travis County
j) Discuss, consider and take appropriate action regarding possible appeal of IRS Proposed Worker Classification Changes and Proposed Tax Adjustments 2011 -2013; and approval of payment of disputed employment taxes pending appeal
k) Discuss proposed acquisition of property for SW 183 and SH 29 Loop
l) Civil Action; American Stewards of Liberty, et al. v. Sally Jewell, et al., In the Western District Court, Western District of Texas, Austin Division

m) Berry Springs Park and Preserve pipeline
n) Case No. 1:17-cv-00290, Rodney A. Hurdsman v. Williamson County Sheriff Deputies Pokluda et al, In The Unites States District Court For The Western District of Texas – Austin Division.
o) Civil Action No. 1:17-cv-153-SS, Royce Belcher v. Williamson County, Texas, In The United States District Court for the Western District of Texas, Austin Division.
p) Tax Increment Financing Agreement between Williamson County and the City of Hutto with respect to a proposed tax increment reinvestment zone (TIRZ) in Hutto, Texas.
q) Claim of AT&T Corp. for Damages to Aerial Fiber Optic Cable and Pole at Hwy 29 and CR 366

51. Discuss, consider and take appropriate action regarding the appointment, employment, evaluation, reassignment, duties, discipline and/or dismissal of Williamson County officers, directors or employees, including but not limited to any necessary action pertaining to conducting annual reviews of department heads and appointed officials.

52. Comments from Commissioners.

_____
Dan A. Gattis, County Judge

This notice of meeting was posted in the locked box located on the south side of the Williamson County Courthouse, a place readily accessible to the general public at all times, on the _____ day of _____, 2017 at _____ and remained posted for at least 72 continuous hours preceding the scheduled time of said meeting.

Commissioners Court - Regular Session **5.**

Meeting Date: 10/17/2017

Line Item Transfer

Submitted By: Ashlie Koenig, Budget Office

Department: Budget Office

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on a line item transfer for the On-Site Sewage Facilities.

Background

This transfer is necessary to put funding in the correct line item to pay an invoice from the Health District for reimbursement of vehicles transferred over in conjunction with the transfer of the OSSF program/function.

Fiscal Impact

From/To	Acct No.	Description	Amount
From	0100-0409-004998	Non Dept/Contingencies	$44,821.56
To	0100-0661-005700	OSSF/Vehicles	$44,821.56

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/04/2017 08:10 AM
Form Started By: Ashlie Koenig		Started On: 10/03/2017 04:22 PM
Final Approval Date: 10/04/2017		

Commissioners Court - Regular Session **6.**

Meeting Date: 10/17/2017

Compensation Items

Submitted For: Tara Raymore **Submitted By:** Kristy Sutton, Human Resources

Department: Human Resources

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on approving compensation changes, position titles changes, position grade changes and any corresponding line item transfers.

Background

See attached documentation for details.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Comp Item

Form Review

Inbox	Reviewed By	Date
Human Resources (Originator)	Tammy Fennell	10/12/2017 11:11 AM
County Judge Exec Asst.	Wendy Coco	10/12/2017 11:27 AM
Form Started By: Kristy Sutton		Started On: 10/12/2017 10:20 AM
Final Approval Date: 10/12/2017		

Department	PCN	EE ID	Budget Amount	*Requested Amount	Change Amount	% Change	Reason for Change	Earliest Oracle Effective Date
Information Systems	1628	Vacant	$53,093.82	N/A	N/A	N/A	Title & Grade Change: System Administrator II B.26 to System Support Specialist III B.25	10/6/2017
Corrections	0561	Vacant	$49,683.92	$48,748.32	-$935.60	-1.88%	Decrease vacant position salary	10/20/2017
Corrections	0541	Vacant	$41,582.40	$42,518.00	$935.60	2.25%	Increase vacant position salary from PCN 0561 to accommodate tenure	10/20/2017
Corrections	0616	Vacant	$60,831.94	$51,944.88	-$8,887.06	-14.61%	Decrease vacant position salary	10/20/2017
Corrections	0344	Vacant	$51,944.88	$60,831.94	$8,887.06	17.11%	Increase vacant position salary from PCN 0616 to accommodate tenure	10/20/2017
Sheriff's Office	1255	Vacant	$73,197.54	$63,429.63	-$9,767.91	-13.34%	Decrease vacant position salary	10/20/2017
Sheriff's Office	1368	Vacant	$61,179.33	$64,924.08	$3,744.75	6.12%	Increase vacant position salary from PCN 1255 to accommodate tenure	10/20/2017
Sheriff's Office	1815	Vacant	$58,803.68	$59,979.66	$1,175.98	2.00%	Increase vacant position salary from PCN 1255 to accommodate tenure	10/20/2017
Sheriff's Office	1816	Vacant	$58,803.68	$63,650.86	$4,847.18	8.24%	Increase vacant position salary from PCN 1255 to accommodate tenure	10/20/2017

*Amount may vary slightly due to Oracle rounding

Commissioners Court - Regular Session **7.**

Meeting Date: 10/17/2017

Justice of the Peace 4 SEPT 2017 Monthly Report

Submitted By: Veronica Bolander, J.P. Pct. #4

Department: J.P. Pct. #4

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action to approve Justice of the Peace, Pct. 4, September 2017 Monthly Report in compliance with Code of Crim. Proc. § 103.005.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

JP4 EOM SEPT 2017

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 11:47 AM
Form Started By: Veronica Bolander		Started On: 10/12/2017 11:35 AM
Final Approval Date: 10/12/2017		

IN COMPLIANCE WITH ARTICLE 103
CODE OF CRIMINAL PROCEDURE

THE STATE OF TEXAS
COUNTY OF WILLIAMSON

Before me, the undersigned authority, on this day personally appeared Judy Schier Hobbs, Justice of the Peace, Precinct 4, Williamson County, who, on her oath, stated that the attached report of money collected is a true and correct report for the month of September, 2017.

JUDY SCHIER HOBBS
JUSTICE OF THE PEACE
PRECINCT FOUR

10th **day of** October, 2017 **to certify which witness my hand and seal of office.**

VERONICA BOLANDER
My Notary ID # 2676312
Expires October 7, 2019

NOTARY PUBLIC in and for the State of Texas

211 W. 6th St.
P.O. Box 588
Taylor, Texas 76574

Payment Register: Summary Section
Williamson County Justice of the Peace, Pct. 4
By Date 09/01/2017-09/30/2017

Date Printed: 10/10/2017
Time Printed: 3:08:11PM

FEE CODE	FEE DESC	ITEMS	TOT PAID	TOT MONEY	CASH	CHECKS	MO	HB 2398	CC	JT	CSR	OTHER	GL CODE
ABSTRACT	ABSTRACT OF JUDGMENT	4	20.00	20.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0100-0000-341804
COPIES	COPIES	5	15.75	15.75	10.50	0.00	0.00	0.00	5.25	0.00	0.00	0.00	0100-0000-341804
COUNTER	COUNTER-CLAIM FILING FEE	1	25.00	25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0100-0000-341804
DCERT	DEATH CERTIFICATE COPIES	5	60.00	60.00	0.00	40.00	0.00	0.00	20.00	0.00	0.00	0.00	0100-0000-341804
EVICTION	EVICTION FILING FEE	65	1,550.00	1,550.00	277.00	998.00	0.00	0.00	275.00	0.00	0.00	0.00	0100-0000-341804
INDIGENT	CIVIL INDIGENT FEE	108	558.00	558.00	66.48	407.52	6.00	0.00	78.00	0.00	0.00	0.00	0399-0000-208822
SERVE 4	CONSTABLE PRECINCT 4 SER	78	5,250.00	5,250.00	916.32	3,353.68	0.00	0.00	980.00	0.00	0.00	0.00	0100-0000-341904
SMALLCLAM	SMALL CLAIMS FILING FEE	2	50.00	50.00	0.00	25.00	0.00	0.00	25.00	0.00	0.00	0.00	0100-0000-341804
WRIT POSS	WRIT OF POSSESSION	13	55.00	55.00	15.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0100-0000-341804
WSERVE 4	CONSTABLE PRECINCT 4 - W	13	1,650.00	1,650.00	450.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0100-0000-341904

***** The Following Fees Do Not Match Any Of The Column Definitions, Therefore Are Included In The "All Other" Column*****

FEE CODE	FEE DESC	ITEMS	TOT PAID	TOT MONEY	CASH	CHECKS	MO	HB2398	CC	JAIL TIME	CSR	OTHER	GL CODE
AUTOPSY	COPIES OF AUTOPSIES	5	15.00	15.00	10.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0100-0000-341804
CERTCOPIE	CERTIFIED COPIES	15	18.00	18.00	12.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0100-0000-341804
DCOPIES	DEATH CERTIFICATE COI	5	39.00	39.00	0.00	33.00	0.00	0.00	6.00	0.00	0.00	0.00	0100-0000-341804
DEBTCLAIM	DEBTCLAIM	39	675.00	675.00	0.00	675.00	0.00	0.00	0.00	0.00	0.00	0.00	0100.0000.341804
EF	E-FILING STATE FEE	108	930.00	930.00	110.80	679.20	10.00	0.00	130.00	0.00	0.00	0.00	01-0399-0000-20802
JCPTF	JUDICIAL COURT PERSON	103	440.00	440.00	55.40	314.60	5.00	0.00	65.00	0.00	0.00	0.00	01-0399-0000-20835
JURY FEE	JURY TRIAL FEE	1	22.00	22.00	0.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0100-0000-341804
OCC LICENSE	OCCUPATIONAL LICENSE	1	25.00	25.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0100.0000.341804
TCF	TRUANT CONDUCT FEE	3	40.00	40.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	01-0369-0000-34191
TRUANCY CO	TRUANCY CONTEMPT FI	4	400.00	400.00	300.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0100-0000-351304
VSPF	VITAL STATISTICS PRESE	5	16.00	16.00	0.00	13.00	0.00	0.00	3.00	0.00	0.00	0.00	01-0385-0000-34140

TOTALS SUMMARY	583	11,853.75	11,853.75	2,263.50	7,826.00	46.00	0.00	1,718.25	$0.00	0.00	0.00

Direct Deposit	$0.00				**HB2398**	$0.00	
Cash	$2,263.50				**CSR Credit**	$0.00	**Post for Refund** $0.00
Checks	$7,826.00				**Jail Credit**	$0.00	
Money Orders	$46.00						**Over Payments** $0.00
Credit Cards :	$1,718.25	**Escrow Payments**	$0.00	**Transaction Fee**	$0.00	**Non-Monetary**	$0.00
TOTAL CURRENCY	$11,853.75	**ESCROW PAID**	$0.00	**TRAN. FEES**	$0.00	**TOTAL**	$0.00	**TOTAL PAID** $0.00

Detailed report has been sent to Auditor's Office.

211 W. 6th St.
P.O. Box 588
Taylor, Texas 76574

Payment Register: GL Code Recap
Williamson County Justice of the Peace, Pct. 4
By Date 09/01/2017-09/30/2017

Date Printed: 10/10/2017
Time Printed: 3:08:11PM

GL CODE	GL CODE DESCRIPTION	CURRENCY	CREDIT CARD	OTHERS	DIRECT DEPOSIT	HB 2398	TOTALS
0100-0000-341804		1,532.50	337.25	0.00	0.00	0.00	1,869.75
0100-0000-341904		5,920.00	980.00	0.00	0.00	0.00	6,900.00
0100-0000-351304		300.00	100.00	0.00	0.00	0.00	400.00
0100.0000.341804		675.00	25.00	0.00	0.00	0.00	700.00
0399-0000-208822		480.00	78.00	0.00	0.00	0.00	558.00
01-0399-0000-208022	E-FILING STATE FEE FOR CIVIL	800.00	130.00	0.00	0.00	0.00	930.00
01-0369-0000-341917	TRUANT CONDUCT FEE	40.00	0.00	0.00	0.00	0.00	40.00
01-0385-0000-341402	VITAL STATISTICS PRESERVATION	13.00	3.00	0.00	0.00	0.00	16.00
01-0399-0000-208354	JUDICIAL COURT PERSONNEL TRAI	375.00	65.00	0.00	0.00	0.00	440.00
TOTALS :		10,135.50	1,718.25	0.00	0.00	0.00	11,853.75

Detailed report has been sent to Auditor's Office.

TOTALS SUMMARY	6205	103,636.08	99,959.98	16,873.66	820.00	10,001.23	0.00	72,265.09	$2,947.10	729.00	375.00

Direct Deposit	$0.00			**HB2398**	$0.00	
Cash	$16,873.66			**CSR Credit**	$729.00	**Post for Refund** $0.00
Checks	$820.00			**Jail Credit**	$2,947.10	
Money Orders	$10,001.23					**Over Payments** $0.00
Credit Cards :	$72,265.09	**Escrow Payments**	$0.00	**Transaction Fee** $0.00	**Non-Monetary**	$375.00
TOTAL CURRENCY	$99,959.98	**ESCROW PAID**	$0.00	**TRAN. FEES** $0.00	**TOTAL**	$4,051.10

TOTAL PAID $0.00

Detailed report has been sent to Auditor's Office.

211 W. 6th St.
P.O. Box 588
Taylor, Texas 76574

Payment Register: Summary Section
Williamson County Justice of the Peace, Pct. 4
By Date 09/01/2017-09/30/2017

Date Printed: 10/10/2017
Time Printed: 3:00:47PM

FEE CODE	FEE DESC	ITEMS	TOT PAID	TOT MONEY	CASH	CHECKS	MO	HB 2398	CC	JT	CSR	OTHER	GL CODE
AFCAF	COUNTY ARREST FEE	209	849.70	834.70	169.41	0.00	72.83	0.00	592.46	10.00	5.00	0.00	0100-0000-341804
AFDPS	DPS ARREST FEE	150	583.40	573.40	65.90	0.00	81.78	0.00	425.72	10.00	0.00	0.00	0399-0000-208400
AFPWA	PARKS & WILDLIFE ARREST	12	52.72	52.72	10.00	0.00	0.00	0.00	42.72	0.00	0.00	0.00	0399-0000-208400
CS	CHILD SAFETY	7	42.43	42.43	8.45	0.00	0.00	0.00	33.98	0.00	0.00	0.00	0100-0000-341804
CVC	CRIME VICTIMS FUND	3	40.35	40.35	0.00	0.00	0.00	0.00	40.35	0.00	0.00	0.00	0399-0000-208300
DIS	DISMISSAL FEE	15	150.00	150.00	100.00	0.00	20.00	0.00	30.00	0.00	0.00	0.00	0100-0000-341804
DLQ	DELINQUENT COLLECTIONS	39	2,349.20	2,349.20	597.50	0.00	116.46	0.00	1,635.24	0.00	0.00	0.00	01.0100.0000.20701
DSC	DEFENSIVE DRIVING	68	638.55	638.55	118.80	0.00	133.65	0.00	386.10	0.00	0.00	0.00	0100-0000-341804
FINE	FINE	598	57,610.26	54,597.36	9,045.54	0.00	4,936.77	0.00	40,615.05	2,039.00	598.90	375.00	0100-0000-351304
JCPT	JUDICIAL COURT PERSONNE	3	5.38	5.38	0.00	0.00	0.00	0.00	5.38	0.00	0.00	0.00	0399-0000-208500
PWF	PARKS AND WILDLIFE FINE	14	544.25	544.25	85.00	0.00	0.00	0.00	459.25	0.00	0.00	0.00	0100-0000-209600
TFC	TRAFFIC	270	644.72	638.72	89.31	0.00	69.07	0.00	480.34	3.00	3.00	0.00	0100-0000-341804

***** The Following Fees Do Not Match Any Of The Column Definitions, Therefore Are Included In The "All Other" Column*****

Detailed report has been sent to Auditor's Office.

FEE CODE	FEE DESC	ITEMS	TOT PAID	TOT MONEY	CASH	CHECKS	MO	HB2398	CC	JAIL TIME	CSR	OTHER	GL CODE
AFC4.	CONTABLE ARREST FEE	4	15.43	10.43	0.43	0.00	5.00	0.00	5.00	5.00	0.00	0.00	0100-0000-341914
AFHPD	HUTTO POLICE DEPARTM	1	5.00	5.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0100-0000-341804
AWF	AUSTIN POLICE DEPARTI	3	150.00	150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0100-0000-341804
BOND	CASH BOND	2	820.00	820.00	0.00	820.00	0.00	0.00	0.00	0.00	0.00	0.00	01-0100-0000-20700
C1W.	CONSTABLE 1 WARRANT	1	15.86	15.86	0.00	0.00	0.00	0.00	15.86	0.00	0.00	0.00	0100-0000-341911
C3W.	CONSTABLE 3 WARRANT	6	134.70	134.70	50.00	0.00	21.20	0.00	63.50	0.00	0.00	0.00	0100-0000-341913
C4W.	CONSTABLE 4 WARRANT	74	2,275.50	2,075.50	449.88	0.00	140.87	0.00	1,484.75	200.00	0.00	0.00	0100-0000-341914
CCC	CONSOLIDATED COURT (	433	13,566.94	13,286.94	2,226.94	0.00	1,383.91	0.00	9,676.09	240.00	40.00	0.00	0399-0000-208160
CHS	COURTHOUSE SECURITY	433	1,022.19	1,001.19	167.05	0.00	103.80	0.00	730.34	18.00	3.00	0.00	0360-0000-341150
CHS2	COURTHOUSE SECURITY	1	0.32	0.32	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0361-0000-341154
CHS2A	COURTHOUSE SECURITY	429	337.74	330.74	55.69	0.00	34.61	0.00	240.44	6.00	1.00	0.00	0361-0000-341154
COM	COMMITMENT	30	96.91	71.91	11.91	0.00	23.36	0.00	36.64	25.00	0.00	0.00	0100-0000-341804
CSF	CHILD SAFETY FUND	13	182.99	182.99	0.00	0.00	25.00	0.00	157.99	0.00	0.00	0.00	0365.0000.341161
CWF	WILLIAMSON COUNTY W	7	180.80	180.80	68.46	0.00	32.25	0.00	80.09	0.00	0.00	0.00	0100-0000-341804
FA	FUGITIVE APPREHENSIOI	3	13.45	13.45	0.00	0.00	0.00	0.00	13.45	0.00	0.00	0.00	0399-0000-208170
HWF	HUTTO POLICE DEPARTM	1	12.86	12.86	0.00	0.00	12.86	0.00	0.00	0.00	0.00	0.00	0100-0000-341804
IDF	INDIGENT DEFENSE FEE	429	675.41	661.41	111.37	0.00	69.20	0.00	480.84	12.00	2.00	0.00	0399.0000.208703
JCD	JUVENILE CRIME & DELI	3	0.67	0.67	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0399-0000-208180
JCM	JUVENILE CASE MANAGI	420	1,652.77	1,617.77	278.40	0.00	168.51	0.00	1,170.86	30.00	5.00	0.00	0103690000370000
JCTF	JUSTICE COURT TECHNO	430	1,352.13	1,324.13	222.72	0.00	138.40	0.00	963.01	24.00	4.00	0.00	0372-0000-341144
JRF	STATE JURY REIMBURSE	430	1,352.13	1,324.13	222.72	0.00	138.40	0.00	963.01	24.00	4.00	0.00	0399-0000-208235
JSF	JUDICIAL SUPPORT FEE	430	2,027.53	1,985.53	334.09	0.00	207.58	0.00	1,443.86	36.00	6.00	0.00	0399-0000-208352
MISC REV	MISCELLANIOUS REVENI	1	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0100-0000-370500
MV	STATE CIVIL JUSTICE DA	277	22.70	22.50	3.66	0.00	2.38	0.00	16.46	0.10	0.10	0.00	0399-0000-208415
OVER	OVER PAYMENT OF FINE	2	100.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0100-0000-209700
REL	RELEASE	30	96.91	71.91	11.91	0.00	23.36	0.00	36.64	25.00	0.00	0.00	0100-0000-341804
RRWF	ROUND ROCK POLICE DE	3	148.15	98.15	0.00	0.00	0.00	0.00	98.15	50.00	0.00	0.00	0100-0000-341804
SPF	SPECIAL PROCESSING FE	11	1,395.50	1,395.50	200.00	0.00	400.00	0.00	795.50	0.00	0.00	0.00	0100-0000-341804
STF	STATE TRAFFIC FEE	269	6,416.91	6,356.91	893.00	0.00	690.70	0.00	4,773.21	30.00	30.00	0.00	0399-0000-208425
SUB	SUBPOENA FEE	28	75.65	75.65	5.00	0.00	5.00	0.00	65.65	0.00	0.00	0.00	0100-0000-341914
SUM	SUMMONS FEE	48	148.56	148.56	22.92	0.00	11.27	0.00	114.37	0.00	0.00	0.00	0100-0000-341914
TP	TIME PAYMENT	131	2,125.61	1,950.61	506.25	0.00	144.32	0.00	1,300.04	150.00	25.00	0.00	0399-0000-208860
TPDF	TRUANCY PREVENTION ,	393	628.44	616.44	103.15	0.00	64.04	0.00	449.25	10.00	2.00	0.00	01-0399-0000-20803
TWFIN	TOLLWAY ADMINISTRAT	41	3,447.36	3,447.36	635.20	0.00	474.65	0.00	2,337.51	0.00	0.00	0.00	0100-0000-207027

Detailed report has been sent to Auditor's Office.

211 W. 6th St.
P.O. Box 588
Taylor, Texas 76574

Payment Register: GL Code Recap
Williamson County Justice of the Peace, Pct. 4
By Date 09/01/2017-09/30/2017

Date Printed: 10/10/2017
Time Printed: 3:00:47PM

GL CODE	GL CODE DESCRIPTION	CURRENCY	CREDIT CARD	OTHERS	DIRECT DEPOSIT	HB 2398	TOTALS
01-0100-0000-207008		820.00	0.00	0.00	0.00	0.00	820.00
0100-0000-209600		85.00	459.25	0.00	0.00	0.00	544.25
0100-0000-209700		100.00	0.00	0.00	0.00	0.00	100.00
0100-0000-341804		1,715.63	2,574.90	121.00	0.00	0.00	4,411.53
0100-0000-341911		0.00	15.86	0.00	0.00	0.00	15.86
0100-0000-341913		71.20	63.50	0.00	0.00	0.00	134.70
0100-0000-341914		640.37	1,669.77	205.00	0.00	0.00	2,515.14
0100-0000-351304		13,982.31	40,615.05	3,012.90	0.00	0.00	57,610.26
0100-0000-370500		3.00	0.00	0.00	0.00	0.00	3.00
0360-0000-341150		270.85	730.34	21.00	0.00	0.00	1,022.19
0361-0000-341154		90.30	240.76	7.00	0.00	0.00	338.06
0365.0000.341161		25.00	157.99	0.00	0.00	0.00	182.99
0372-0000-341144		361.12	963.01	28.00	0.00	0.00	1,352.13
0399-0000-208160		3,610.85	9,676.09	280.00	0.00	0.00	13,566.94
0399-0000-208170		0.00	13.45	0.00	0.00	0.00	13.45
0399-0000-208180		0.00	0.67	0.00	0.00	0.00	0.67
0399-0000-208235		361.12	963.01	28.00	0.00	0.00	1,352.13
0399-0000-208300		0.00	40.35	0.00	0.00	0.00	40.35
0399-0000-208352		541.67	1,443.86	42.00	0.00	0.00	2,027.53
0399-0000-208400		157.68	468.44	10.00	0.00	0.00	636.12
0399-0000-208425		1,583.70	4,773.21	60.00	0.00	0.00	6,416.91
0399-0000-208500		0.00	5.38	0.00	0.00	0.00	5.38
0399-0000-208860		650.57	1,300.04	175.00	0.00	0.00	2,125.61
0399.0000.208703		180.57	480.84	14.00	0.00	0.00	675.41
0399-0000-208415		6.04	16.46	0.20	0.00	0.00	22.70
0100-0000-207027		1,109.85	2,337.51	0.00	0.00	0.00	3,447.36
01.0100.0000.207017	DLQ FEE	713.96	1,635.24	0.00	0.00	0.00	2,349.20
0103690000370000	JUVENILE CASE MANAGER FUND	446.91	1,170.86	35.00	0.00	0.00	1,652.77
01-0399-0000-208034	TRUANCY PREVENTION AND DIVEI	167.19	449.25	12.00	0.00	0.00	628.44
TOTALS :		27,694.89	72,265.09	4,051.10	0.00	0.00	104,011.08

Detailed report has been sent to Auditor's Office.

CRIMINAL

Commissioners Court - Regular Session **8.**

Meeting Date: 10/17/2017

Asset Auction 10/17/2017

Submitted By: Jayme Jasso, Purchasing

Department: Purchasing

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on authorizing the disposal of various county assets through auction including (10) Chairs, (1) Desk, (1) Projector, (17) Laptop cases, (1) Mouse and Keyboard, (2) Voice recorders, (4) Docking station, (1) Monitor, (3) Laptops, (1) Computer, (3) Mic speakers, (1) Battery, (1) Misc.cords, (1) Printer, (12) Keyboards, (11) Mice, (see attached lists) pursuant to Tx. Local Govt code 263.152.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Asset Auction 1

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 10:57 AM
Form Started By: Jayme Jasso		Started On: 10/12/2017 10:26 AM
Final Approval Date: 10/12/2017		

FrmAudASCF01 revision 07/2014

Williamson County
Asset Status Change Form

Print Form

The following asset(s) is(are) considered for: (select one)

- ○ TRANSFER bet ween county departments
- ◉ SALE at the earliest auction *
- ○ TRADE-IN for new assets of similar type for the county
- ○ DONATION to a non-county entity
- ○ DESTRUCTION due to Public Health / Safety
- ○ SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.)	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
6	Burgundy lobby chairs			Working
4	Burgundy guest chairs			Working
1	desk w/hutch	A103843 and A103844-hutch door broken		Non-Working
1	Dell DLP front projector 3100MP	Service Tag: 16PC811	O00099	Non-Working
17	laptop carrying cases			Working

Parties involved:

FROM (Transferor Department): County Attorney

Transferor - Elected Official/Department Head/ Authorized Staff:

Dee Hobbs
Print Name

Doyle Dee Hobbs Jr.
Signature

September 29, 2017
Date

Contact Person:

Stephanie Lloyd
Print Name

943-1116
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): Auction

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Print Name

Signature

Date

Contact Person:

RECEIVED
OCT - 4 2017
AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

Print Name

Phone Number

* If the above asset(s) is (are) listed for sale at auction and no bids are made, the Purchasing Director may dispose of or donate this (these) asset(s). A list of the (these) asset(s) to be donated or disposed of will be sent to the Auditor's Office with a date of donation or disposal.

Forward to County Auditor's Office

This Change Status was approved as agenda item # _____ in Commissioner's Court on _____

If for Sale, the asset(s) was(were) delivered to warehouse on _____ by _____

FrmAudASCF01 revision 07/2014

Williamson County
Asset Status Change Form

Print Form

The following asset(s) is(are) considered for: (select one)

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- ◉ SALE at the earliest auction *
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- ○ DONATION to a non-county entity
- ○ DESTRUCTION due to Public Health / Safety
- ○ SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.)	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
1	Logitech M705 wireless mouse and keyboard			Non-Working
2	Olympus Digital Voice recorders WS-300M			Non-Working
1	Dell docking port PR02X	CN-035RXK-12966-38J-0744-A00		Non-Working
1	Dell monitor	CN-0Y4299-71618-56F-CCCX		Non-Working
1	Dell laptop docking station	CN-051XVC-73901-47G-0517-A01		Working

Parties involved:

FROM (Transferor Department): County Attorney

Transferor - Elected Official/Department Head/ Authorized Staff:

Dee Hobbs
Print Name

Dee Hobbs Jr.
Signature

September 29, 2017
Date

Contact Person:

Stephanie Lloyd
Print Name

943-1116
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): Auction

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Print Name

Signature

Date

Contact Person:

Print Name

Phone Number

RECEIVED
OCT - 4 2017
AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

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Forward to County Auditor's Office

This Change Status was approved as agenda item # _____ in Commissioner's Court on _____

If for Sale, the asset(s) was(were) delivered to warehouse on _____ by _____

FrmAudASCF01 revision 07/2014

Williamson County
Asset Status Change Form

Print Form

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- ○ TRANSFER bet ween county departments
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- ○ DESTRUCTION due to Public Health / Safety
- ○ SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.)	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
1	Dell Latitude E6540 w/bag	Service Tag: C72YM12		Working
1	Dell Latitude E6530 w/bag	Service Tag: 7C8CTY1		Working
1	Dell Latitude E6540 w/bag	Service Tag: CJ0TYM12		Working
1	Dell Optiplex 790	Service Tag: 5KVJXV1	C03348	Non-Working
1	Dell laptop docking station	CN-051XVC-73901-38K-1086-A01		Working

Parties involved:

FROM (Transferor Department): County Attorney

Transferor - Elected Official/Department Head/ Authorized Staff:

Dee Hobbs
Print Name

Loyd Dee Hobbs Jr.
Signature

September 29, 2017
Date

Contact Person:

Stephanie Lloyd
Print Name

943-1116
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): Auction

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Print Name

Signature

Date

Contact Person:

RECEIVED
OCT - 4 2017
AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

Print Name

Phone Number

* If the above asset(s) is (are) listed for sale at auction and no bids are made, the Purchasing Director may dispose of or donate this (these) asset(s). A list of the (these) asset(s) to be donated or disposed of will be sent to the Auditor's Office with a date of donation or disposal.

Forward to County Auditor's Office

This Change Status was approved as agenda item # _____ in Commissioner's Court on _____

If for Sale, the asset(s) was(were) delivered to warehouse on _____ by _____

FrmAudASCF01 revision 07/2014

Williamson County
Asset Status Change Form

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- ○ DONATION to a non-county entity
- ○ DESTRUCTION due to Public Health / Safety
- ○ SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.)	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
1	Dell laptop docking station	CN-OPW395-73901-293-0858-A01		Working
3	Motorola shoulder mic speaker			Working
1	Motorola battery			Working
1	misc cords			Working

Parties involved:

FROM (Transferor Department): County Attorney

Transferor - Elected Official/Department Head/ Authorized Staff:

Dee Hobbs
Print Name

Dee Hobbs Jr.
Signature

September 29, 2017
Date

Contact Person:

Stephanie Lloyd
Print Name

943-1116
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): Auction

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Print Name

Signature

Date

Contact Person:

Print Name

Phone Number

RECEIVED
OCT - 4 2017
AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

* If the above asset(s) is (are) listed for sale at auction and no bids are made, the Purchasing Director may dispose of or donate this (these) asset(s). A list of the (these) asset(s) to be donated or disposed of will be sent to the Auditor's Office with a date of donation or disposal.

Forward to County Auditor's Office

This Change Status was approved as agenda item # _____ in Commissioner's Court on _____

If for Sale, the asset(s) was(were) delivered to warehouse on _____ by _____

FrmAudASCF01 revision 07/2014

Williamson County
Asset Status Change Form

Print Form

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- ○ TRANSFER bet ween county departments
- ◉ SALE at the earliest auction *
- ○ TRADE-IN for new assets of similar type for the county
- ○ DONATION to a non-county entity
- ○ DESTRUCTION due to Public Health / Safety
- ○ SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.)	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
1	HP Color Laserjet 3600n	CNWDF46871		Non-Working

Parties involved:

FROM (Transferor Department): MOBILE OUTREACH TEAM

Transferor - Elected Official/Department Head/ Authorized Staff:

ANNIE BURWELL
Print Name

Annie Burwell 10/2/17
Signature Date

Contact Person:

JEANNE WILLIBY
Print Name

943-3588
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): AUCTION

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Print Name

Signature Date

Contact Person:

Print Name

Phone Number

RECEIVED
OCT - 3 2017
AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

* If the above asset(s) is (are) listed for sale at auction and no bids are made, the Purchasing Director may dispose of or donate this (these) asset(s). A list of the (these) asset(s) to be donated or disposed of will be sent to the Auditor's Office with a date of donation or disposal.

Forward to County Auditor's Office

This Change Status was approved as agenda item # _____ in Commissioner's Court on _____

If for Sale, the asset(s) was(were) delivered to warehouse on _____ by _____

FrmAudASCF01 revision 07/2014

Williamson County
Asset Status Change Form

Print Form

The following asset(s) is(are) considered for: (select one)

- ○ TRANSFER bet ween county departments
- ◉ SALE at the earliest auction *
- ○ TRADE-IN for new assets of similar type for the county
- ○ DONATION to a non-county entity
- ○ DESTRUCTION due to Public Health / Safety
- ○ SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.)	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
1	Keyboard, keys sticking			Non-Working
11	Keyboards			Working
11	Computer mice			Working

Parties involved:

FROM (Transferor Department): Auditor's Office

Transferor - Elected Official/Department Head/ Authorized Staff:

Julie M. Kiley
Print Name

Julie M Kiley
Signature

October 2, 2017
Date

Contact Person:

Lisa V. Moore
Print Name

+1 (512) 943-1623
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): Auction

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Print Name

Signature

Date

Contact Person: RECEIVED

Print Name

OCT - 2 2017

Phone Number

AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

* If the above asset(s) is (are) listed for sale at auction and no bids are made, the Purchasing Director may dispose of or donate this (these) asset(s). A list of the (these) asset(s) to be donated or disposed of will be sent to the Auditor's Office with a date of donation or disposal.

Forward to County Auditor's Office

This Change Status was approved as agenda item # _____ in Commissioner's Court on _____

If for Sale, the asset(s) was(were) delivered to warehouse on _____ by _____

Commissioners Court - Regular Session **9.**

Meeting Date: 10/17/2017

Property Tax Collections - September 2017

Submitted For: Larry Gaddes

Submitted By: Cathy Atkinson, County Tax Assessor Collector

Department: County Tax Assessor Collector

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on approving property tax collections for the month of September 2017 for the Williamson County Tax Assessor/Collector.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

090117-093017 GWI-RFM

090117-093017 GWI-RFM Graph

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/11/2017 09:34 AM
Form Started By: Cathy Atkinson		Started On: 10/10/2017 12:38 PM
Final Approval Date: 10/11/2017		

YEAR TO DATE - COLLECTION REPORT
Williamson County - GWI/RFM Property Taxes
September 30, 2017

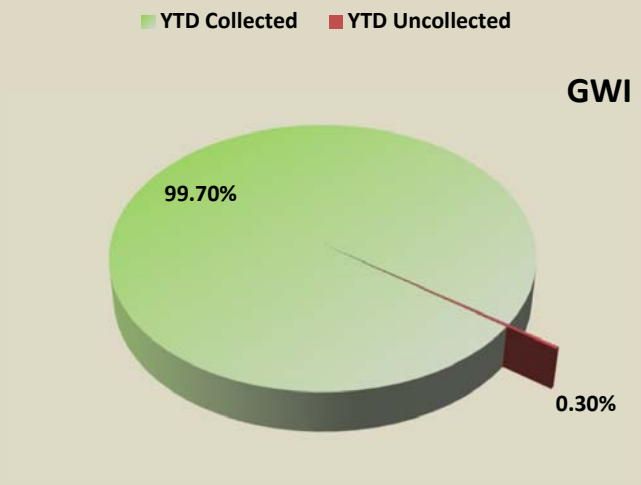
Williamson County General Fund	Tax Roll	Adjustments	Adjusted Tax Roll	Current Tax Collected	Penalty & Interest Collected	Variance	Uncollected Balance	YTD Collected	YTD Percent Collected	YTD Percent Collected w/P & I	YTD Percent Collected w/P & I & Prior Years
2016	$226,223,062.05	$211,324.83	$226,434,386.88	$96,613.00	$21,502.96	$3,595.38	$690,211.15	$225,744,175.73	99.70%	99.92%	100.65%
2015 & Prior	$2,047,458.40	($382,381.84)	$1,665,076.56	($19,744.67)	$13,387.28	$3,624.94	$1,296,101.65	$368,974.91	22.16%	33.31%	
Rollbacks	$468,099.22	$922,646.03	$1,390,745.25	$69,936.40	$1,610.05	$93.45	$288,563.47	$1,102,181.78	79.25%	79.75%	
Total All	$228,738,619.67	$751,589.02	$229,490,208.69	$146,804.73	$36,500.29	$7,313.77	$2,274,876.27	$227,215,332.42	99.01%	99.31%	

Williamson County RFM	Tax Roll	Adjustments	Adjusted Tax Roll	Current Tax Collected	Penalty & Interest Collected	Variance	Uncollected Balance	YTD Collected	YTD Percent Collected	YTD Percent Collected w/P & I	YTD Percent Collected w/P & I & Prior Years
2016	$20,562,004.13	$25,541.22	$20,587,545.35	$8,860.34	$1,963.18	$329.44	$62,154.85	$20,525,390.50	99.70%	99.92%	100.60%
2015 & Prior	$172,606.65	($33,152.07)	$139,454.58	($2,060.71)	$1,058.64	$274.41	$106,509.44	$32,945.14	23.62%	35.49%	
Rollbacks	$37,565.88	$78,068.25	$115,634.13	$6,094.04	$126.93	$6.42	$25,120.98	$90,513.15	78.28%	78.75%	
Total All	$20,772,176.66	$70,457.40	$20,842,634.06	$12,893.67	$3,148.75	$610.27	$193,785.27	$20,648,848.79	99.07%	99.37%	

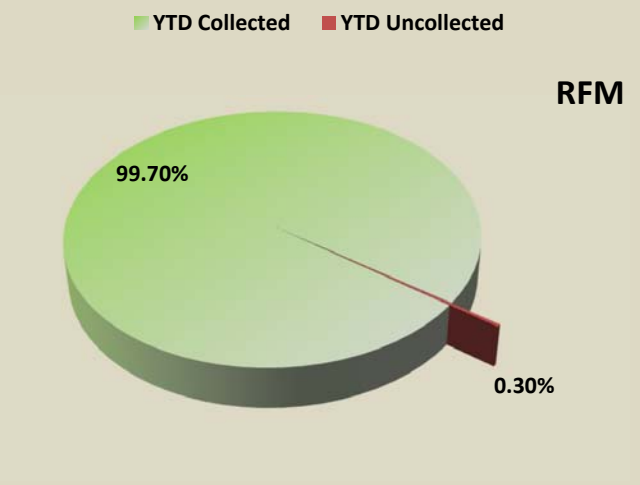
2016 COMBINED MONTHLY BREAKDOWN

Oct-16	$249,510,796.33	$174,087.04	$249,684,883.37	$9,479,071.82	$21,239.64	$1,658.11	$240,204,153.44	$9,480,729.93
Nov-16	$249,684,883.37	$633,585.03	$250,318,468.40	$10,270,321.69	$30,038.80	$4,805.07	$230,562,611.71	$19,755,856.69
Dec-16	$250,318,468.40	($278,681.38)	$250,039,787.02	$132,850,048.98	$23,630.70	$593.98	$97,433,287.37	$152,606,499.65
Jan-17	$250,039,787.02	$148,420.90	$250,188,207.92	$85,802,448.75	$29,213.62	$289.79	$11,778,969.73	$238,409,238.19
Feb-17	$250,188,207.92	($46,669.47)	$250,141,538.45	$3,563,898.84	$196,390.69	($30,865.31)	$8,199,266.73	$241,942,271.72
Mar-17	$250,141,538.45	($88,426.37)	$250,053,112.08	$2,110,181.72	$123,515.82	$37,185.40	$5,963,473.24	$244,089,638.84
Apr-17	$250,053,112.08	$146,139.52	$250,199,251.60	$728,306.79	$87,457.12	$2,046.90	$5,379,259.07	$244,819,992.53
May-17	$250,199,251.60	$74,048.72	$250,273,300.32	$1,273,516.27	$59,796.86	$841.12	$4,178,950.40	$246,094,349.92
Jun-17	$250,273,300.32	$45,897.42	$250,319,197.74	$493,691.76	$67,486.75	$3,923.88	$3,727,232.18	$246,591,965.56
Jul-17	$250,319,197.74	($8,985.36)	$250,310,212.38	$906,396.19	$39,852.80	$408.36	$2,811,442.27	$247,498,770.11
Aug-17	$250,310,212.38	($58,850.06)	$250,251,362.32	$194,874.49	$38,430.43	$2,914.17	$2,554,803.55	$247,696,558.77
Sep-17	$250,251,362.32	$81,480.43	$250,332,842.75	$159,698.40	$39,649.04	$7,924.04	$2,468,661.54	$247,864,181.21

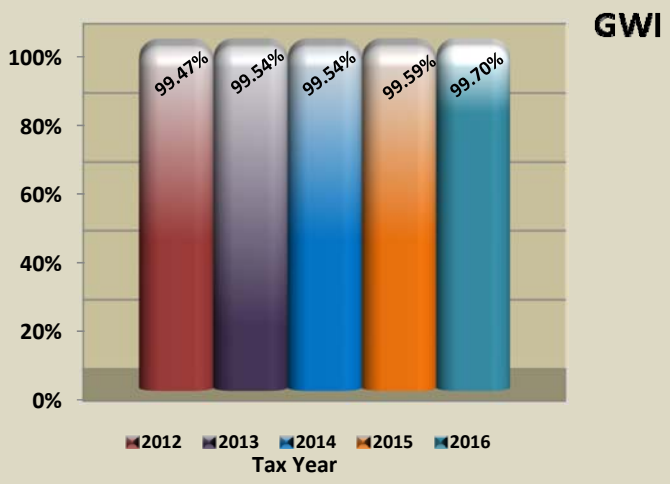
Year to Date Collection Report
October 1, 2016 - September 30, 2017



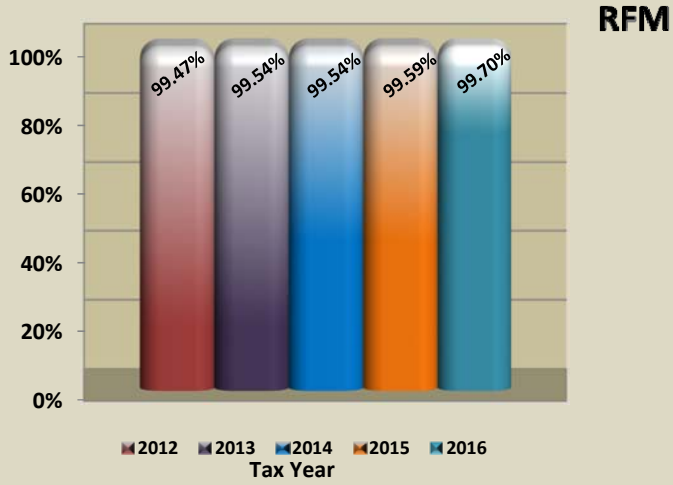
Year to Date Collection Report
October 1, 2016 - September 30, 2017



Percent of Roll Collected Comparison
September 2013-2017



Percent of Roll Collected Comparison
September 2013-2017



Commissioners Court - Regular Session **10.**

Meeting Date: 10/17/2017

Vehicle Reimbursement Agreement for Circuit of the Americas for County Sheriff

Submitted For: Robert Chody **Submitted By:** Starla Hall, Sheriff

Department: Sheriff

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take any appropriate action regarding approval and receipt of Vehicle Reimbursement Agreement with Circuit of The Americas (COTA).

Background

This agreement gives permission for COTA to contract Williamson County Sheriff Deputies in a private capacity.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Circuit of The Americas

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/10/2017 11:26 AM
Form Started By: Starla Hall		Started On: 10/09/2017 11:42 AM
Final Approval Date: 10/10/2017		

STATE OF TEXAS	§	**VEHICLE REIMBURSEMENT**
	§	**AGREEMENT WITH**
	§	**NON-GOVERNMENTAL**
	§	**ORGANIZATION**
	§	**REGARDING OFF-DUTY**
COUNTY OF WILLIAMSON	§	**CONTRACTING OF COUNTY DEPUTIES**

This Vehicle Reimbursement Agreement with Non-Governmental Organization Regarding Off-Duty Contracting of County Deputies (hereinafter, the "AGREEMENT") is entered into by and between the company/organization set forth on the signature page below (hereinafter, "NON-GOVERNMENTAL ORGANIZATION") in the State of Texas, and Williamson County, Texas (hereinafter, "COUNTY") a political subdivision of the State of Texas, and the Williamson County Law Enforcement Agency set forth on the signature page below (hereinafter, "LEA").

For and in consideration of the permission given by COUNTY for the NON-GOVERNMENTAL ORGANIZATION to contract in a private capacity DEPUTIES of the LEA (hereinafter "DEPUTIES"), while DEPUTIES are not on duty with and for the COUNTY, it is hereby agreed as follows:

1. It is mutually agreed that while the DEPUTIES are working for the NON-GOVERNMENTAL ORGANIZATION, the DEPUTIES' primary responsibility is the enforcement of Federal and State laws and COUNTY Ordinances or Regulations to protect life and property and to keep the peace. The DEPUTIES are not allowed to enforce NON-GOVERNMENTAL ORGANIZATION policies or rules. DEPUTIES are at all times subject to the rules and policies of the LEA. ***NON-GOVERNMENTAL ORGANIZATION expressly acknowledges and agrees that such DEPUTIES are at all times independent contractors of the NON-GOVERNMENTAL ORGANIZATION when contracted by the NON-GOVERNMENTAL ORGANIZATION.***

2. **It is understood by the NON-GOVERNMENTAL ORGANIZATION that the COUNTY shall retain the right to withdraw at any time its permission for the DEPUTIES to work in a private capacity (including the right to terminate this agreement at any time).** If the permission of the COUNTY is withdrawn, the NON-GOVERNMENTAL ORGANIZATION agrees to terminate its contracting relationships with DEPUTIES. The NON-GOVERNMENTAL ORGANIZATION, as part of this AGREEMENT, binds itself to release and hold harmless the COUNTY from any liability or claim for damages in the event such permission is withdrawn by the COUNTY.

3. Prior to the beginning of DEPUTIES contracting with the NON-GOVERNMENTAL ORGANIZATION, the NON-GOVERNMENTAL ORGANIZATION shall obtain a comprehensive general liability insurance policy

from a company authorized to do business in the State of Texas with minimum amounts of Ten Thousand Dollars ($10,000) per occurrence for property damage, One Hundred Thousand Dollars ($100,000) per person, and Three Hundred Thousand Dollars ($300,000) per occurrence for personal injury. COUNTY SHALL BE NAMED AS AN ADDITIONAL INSURED UNDER THIS COVERAGE.

4. The term of this AGREEMENT shall begin on October 1st, 2017 and shall terminate on September 30, 2018. Any extension of this AGREEMENT must be set forth in writing and signed by both parties.

5. State law requires that law enforcement personnel conducting "off-duty" work must be both "full time" and "entitled" to fringe benefits. Tex. Occup. Code Sec. 1702.322(A) & (B)(i). Thus, part-time deputies and "reserve" officers may not conduct "off-duty" work.[1]

6. The COUNTY agrees that each of the DEPUTIES will be properly insured with automobile liability insurance while operating the patrol vehicle in accordance with Section 612.005(b) of the Texas Government Code, and any other applicable laws.

7. COUNTY agrees to invoice NON-GOVERNMENTAL ORGANIZATION for the reimbursement amounts for deputy vehicle usage at the rate of **$12.00 per hour per vehicle** (to cover NON-GOVERNMENTAL ORGANIZATION's fair share of costs for fuel, maintenance, and yearly premiums on automobile insurance).

8. NON-GOVERNMENTAL ORGANIZATION agrees to log and maintain all times that vehicles are allotted to off-duty work, whether actually used or parked, for each vehicle used by DEPUTIES on a monthly basis. NON-GOVERNMENTAL ORGANIZATION shall provide such vehicle time records to COUNTY and LEA no later than the last day of the end of each month in which vehicle usage occurs. COUNTY will invoice based on the total usage and rate, as set forth in Paragraph 7, and NON-GOVERNMENTAL ORGANIZATION will pay such invoice within ten (10) days of the invoice date. Reporting must be submitted to:

LEA:	At the address set forth on signature page below.
COUNTY:	Williamson County Auditor's Office Attn: Finance Director 710 Main Street, Suite 301 Georgetown, Texas 78626

9. NON-GOVERNMENTAL ORGANIZATION agrees that it shall pay deputies directly and file 1099 forms with the Internal Revenue Service.

[1] It is the commissioners court that sets what compensation (and benefits) deputies are entitled to, which affects eligibility for off-duty work. Tex. Local Gov't Code § 152.011.

10. Each party to this AGREEMENT, in the performance of this AGREEMENT, shall act in an individual capacity and not as agents, employees, partners, joint ventures or associates of one another.

11. Nothing in this AGREEMENT shall be deemed to waive, modify or amend any legal defense available at law or in equity to COUNTY, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. COUNTY does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

NON-GOVERNMENTAL ORGANIZATION:

Name of Organization : Circuit of The Americas, LLC

Signature: _____

Printed Name: Anna Panossian

Title: Vice President

Date: 7/27/17, 20 17

WILLIAMSON COUNTY LAW ENFORCEMENT AGENCY:

Name of Office: Sheriff

Printed Name of Official: Robert Chody

Signature of Official: _____

Date: 10-5-17, 20 17

Address of Office: 508 S. Rock St.
Georgetown, TX 78626

WILLIAMSON COUNTY COMMISSIONERS COURT:

By: _____

Dan A. Gattis,
Williamson County Judge &
Presiding Officer, Williamson County Commissioners Court
710 Main Street, Suite 105
Georgetown, Texas 78626

Commissioners Court - Regular Session **11.**

Meeting Date: 10/17/2017

Professional Service Industries WA1 GT Annex

Submitted For: Robert Daigh **Submitted By:** Vicky Edwards, Infrastructure

Department: Infrastructure

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on Work Authorization No 1 in the amount of $60,000.00 to expire December 31, 2017 under Williamson County contract for Engineering Services between Professional Service Industries Inc and Williamson County dated May 25, 2017 for Construction Materials Testing and Inspection for the Williamson County Georgetown Annex Project for Williamson County.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Professional Service Industries WA 1 GT Annex

Form Review

Inbox	Reviewed By	Date
Hal Hawes	Hal Hawes	10/04/2017 02:40 PM
County Judge Exec Asst.	Wendy Coco	10/04/2017 03:37 PM
Form Started By: Vicky Edwards		Started On: 10/04/2017 09:20 AM
Final Approval Date: 10/04/2017		

WORK AUTHORIZATION NO. 1

PROJECT: Construction Materials Testing and Inspection for the Williamson County Georgetown Annex Project

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated **May 25, 2017** and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and **Professional Services Industries, Inc.** (the "Engineer").

Part1. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is **$60,000.00**

Part 3. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on **December 31, 2017**. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 6. County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Work Authorization. Engineer understands and agrees that County's payment of amounts under this Work Authorization is contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to continue to make payments under this Contract. It is further understood and agreed by Engineer that County shall have the right to terminate this Contract at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may effect such termination by giving written notice of termination to Engineer.

Part 7. This Work Authorization is hereby accepted and acknowledged below.

EXECUTED this ____ day of _____, 20___.

ENGINEER:

Professional Service Industries

By: _____
Signature

Andrew Domke
Printed Name

Branch Manager
Title

COUNTY:

Williamson County, Texas

By: _____
Signature

Dan A Gattis
Printed Name

Williamson County Judge
Title

Attachment A

Services to be Provided by County

1. County will direct type of services to be provided.

2. County will provide timely reviews and decisions necessary to enable Professional Services Industries, Inc. to maintain an agreed upon project schedule as developed in Attachment C.

3. County will provide points of contact, to be identified upon Notice to Proceed.

4. County will provide project management.

ATTACHMENT B

Services to be Provided by Engineer

Summary of Scope of Services: PSI is to perform construction materials testing and inspection of the Williamson County Annex which includes but is not limited to the following:

- Building and Paving subgrade proofroll inspections, as well as, field density testing of compacted fill materials placed on subgrades, utility backfill, and associated lab testing
- Drilled pier inspections to check pier lengths and diameters, bearing strata confirmation and penetration depth, reinforcing steel inspection and associated concrete field tests, and fabrication of test cylinders.
- Perform reinforcing steel inspections to verify that the proper size, grade, length, spacing, cleanliness, and chairs are in place prior to concrete placements.
- Perform concrete placement inspections to check the strength of the concrete, as well as consistency, temperature, air content, and placement techniques.
- Perform masonry observations which includes the fabrication of mortar cubes, grout specimen, reinforcing steel placement observations, grouting techniques, and check masonry veneer tiebacks.
- Inspect structural steel bolted connections for tightness, as well as, weld inspection of welded connections on structural steel framing and related elements.
- Perform asphalt lab testing for material quality for parking lot paving and drives. Asphalt paving cores are sampled to verify density and thickness after placements.

Attachment C

Work Schedule

Work schedule is approximately 420 calendar days from notice to proceed.

ATTACHMENT D

FEE SCHEDULE

Laboratory testing of soils, delivered to our laboratory, in accordance with ASTM or AASHTO procedures and project specifications.

Moisture/Density Relationship of Soil (Proctor Test):		
a. ASTM D-698 (Standard)	Each	$ 185.00
b. ASTM D-1557 (Modified)	Each	$ 185.00
d. TEX-113-E (Base Materials)	Each	$ 185.00
c. TEX-114-E (Subgrade, Embankment, Backfill Materials)	Each	$ 185.00
Atterberg Limits Determination (PI)	Each	$ 65.00
Material Finer Than #200 Sieve (Wash/Dry)	Each	$ 65.00
Sieve Analysis	Each	$ 65.00
Unified Soil Classification	Each	$ 65.00
Sample Preparation	Each	$ 65.00
Standard Moisture/Density Relationship, Atterberg Limits, Sieve Analysis, Percent Passing No.200 Sieve, Unified Soil Classification, Sample Preparation	Each	$ 535.00

Field testing of soils in accordance with ASTM or AASHTO procedures and project specifications.

Nuclear Density Test ASTM D2922	Each	$ 15.00
Moisture Content of Soil	Each	$ 5.00

CONCRETE and AGGREGATES

Laboratory testing of concrete, grout, mortar and aggregates, delivered to our laboratory, in accordance with ASTM or TEX procedures and project specifications.

Concrete Cylinders (Cured and/or Tested in Compression)	Each	$ 18.00
Trimming of Cylinders for ASTM Procedure (Contractor Made Only)	Each	$ 25.00
Sieve Analysis of Coarse Aggregates	Each	$ 75.00
Sieve Analysis of Fine Aggregates	Each	$ 75.00
Specific Gravity and Absorption	Each	$ 55.00
Bulk Density	Each	$ 50.00
Materials Finer than #200 Sieve (Decant)	Each	$ 65.00
Sand Equivalent	Each	$ 65.00
Organic Impurities in Fine Aggregate	Each	$ 65.00
Los Angeles Abrasion	Each	$ 225.00
Crushed Face Particle Count	Each	$ 75.00
Soundness of Aggregates (Magnesium or Sodium)	Each	$ 375.00

Field testing of concrete in accordance with ASTM procedures and project specifications.

Slump of Hydraulic Cement Concrete	Each	$ 6.00
Air Content of Freshly Concrete by the Pressure Method	Each	$ 6.00
Temperature of Freshly Mixed Portland-Cement Concrete	Each	$ 6.00
Unit Weight of Concrete	Each	$ 6.00

ASPHALT

Laboratory testing of asphaltic samples delivered to our laboratory, in accordance with ASTM procedures and project specifications

Extraction and Gradation	Each	$ 145.00
Asphalt Coring Machine	Per Trip	$ 175.00
Thickness Determination of Asphalt Cores	Each	$ 15.00
Density Determination and Thickness of Asphalt Cores	Each	$ 30.00
Theoretical Specific Gravity (Rice Method)	Each	$ 85.00
Asphalt Stability	Each	$ 45.00

MASONRY

Laboratory testing of masonry samples delivered to our laboratory, in accordance with ASTM Procedures and project specifications

Grout Prisms (Cured and/or Tested in Compression)	Each	$ 18.00
Mortar Cubes (Cured and/or Tested in Compression)	Each	$ 18.00

FIELD TESTING AND OBSERVATION SERVICES

Engineering Technician/ Inspector (minimum 4 hours) {To perform field density testing, field testing of concrete, slump, air content, temperature, unit weight, cast concrete cylinders, masonry testing, proof rolling observation, drilled piers, reinforcing steel, post tensioning placement and stressing, floor flatness, fireproofing, wood framing, and concrete batch plant observation)	Per Hour	$ 45.00
Asphalt Technician (minimum 4 hours) (To perform asphalt placement observation, extraction gradation, asphalt stability, maximum theoretical specific gravity, lab molded density, air void determination of cores)	Per Hour	$ 52.00
Structural Steel Technician {minimum 4 hours) {To perform visual weld observation, bolting inspection, shear stud verification, NOE of welds, and fabrication shop observation)	Per Hour	$ 95.00
Geotechnical Engineer (Site visits, consultation, special reports)	Per Hour	$ 125.00
Professional Engineer (Site visits, consultation, special reports)	Per Hour	$ 138.00

MANAGEMENT/TECHNICAL SERVICES

Project Manager	Per Hour	$ 94.00
Report Review	Each	$ 25.00
Project Setup fee	Each	$ 150.00
Final Close-Out Letter / Report- as needed	Each	$ 375.00

EQUIPMENT

Daily Equipment Charge"	Per Trip	$ 40.00
Lime depth checks/field gradations	Per Test	$ 45.00
Floor vapor emission test kits	Per Kit	$ 40.00
Concrete Coring Rig Charge	Per Day	$ 150.00
Asphalt Coring Machine	Per Trip	$ 175.00
Generator	Per Trip	$ 75.00
Core hole patching	Per Hole	$ 15.00
Floor Flatness Equipment		
Up to 10,000sf	Each	$ 550.00
Over 10,000sf	Per SF	$ 0.06
UT Flaw Detector Machine	Per Day	$ 130.00
UT Couplant (minimum 1 pint)	Per Pint	$ 25.00
PT Cleaner (minimum 1 can)	Per Can	$ 25.00
PT Penetrant (minimum 1 can)	Per Can	$ 25.00
MT Equipment	Per Day	$ 85.00
MT Powder (minimum 1 lb)	Per Pound	$ 25.00
Transportation Charge	Per Trip	$ 40.00

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*Charges for the use of nuclear density gauge when testing soils compaction and for concrete equipment when performing concrete testing (slump cone, slump board, air content meter, wheel borrow, etc.)

Commissioners Court - Regular Session **12.**

Meeting Date: 10/17/2017

Discuss consider and take appropriate action on approval of the final plat for the 313 Commercial subdivision - Pct 4

Submitted For: Terron Evertson **Submitted By:** Katheryn Cromwell, Infrastructure

Department: Infrastructure **Division:** Road & Bridge

Agenda Category: Consent

Information

Agenda Item

Discuss, consider, and take appropriate action on approval of the final plat for the 313 Commercial Subdivision - Pct 3

Background

This is the next section of the Sonterra West development. It consists of two commercial lots and no new public roads.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

313 Commercial

Form Review

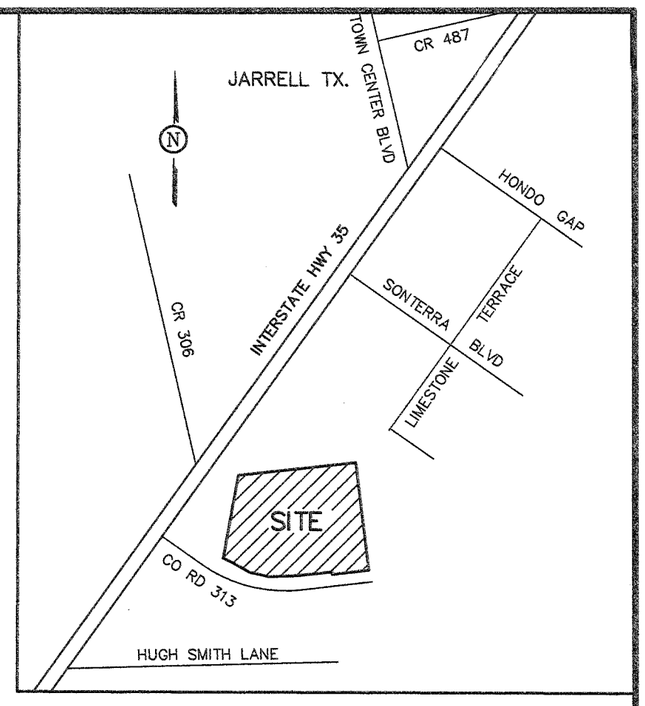
Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Katheryn Cromwell		Started On: 10/12/2017 09:41 AM
Final Approval Date: 10/12/2017		

313 COMMERCIAL

GRAPHIC SCALE

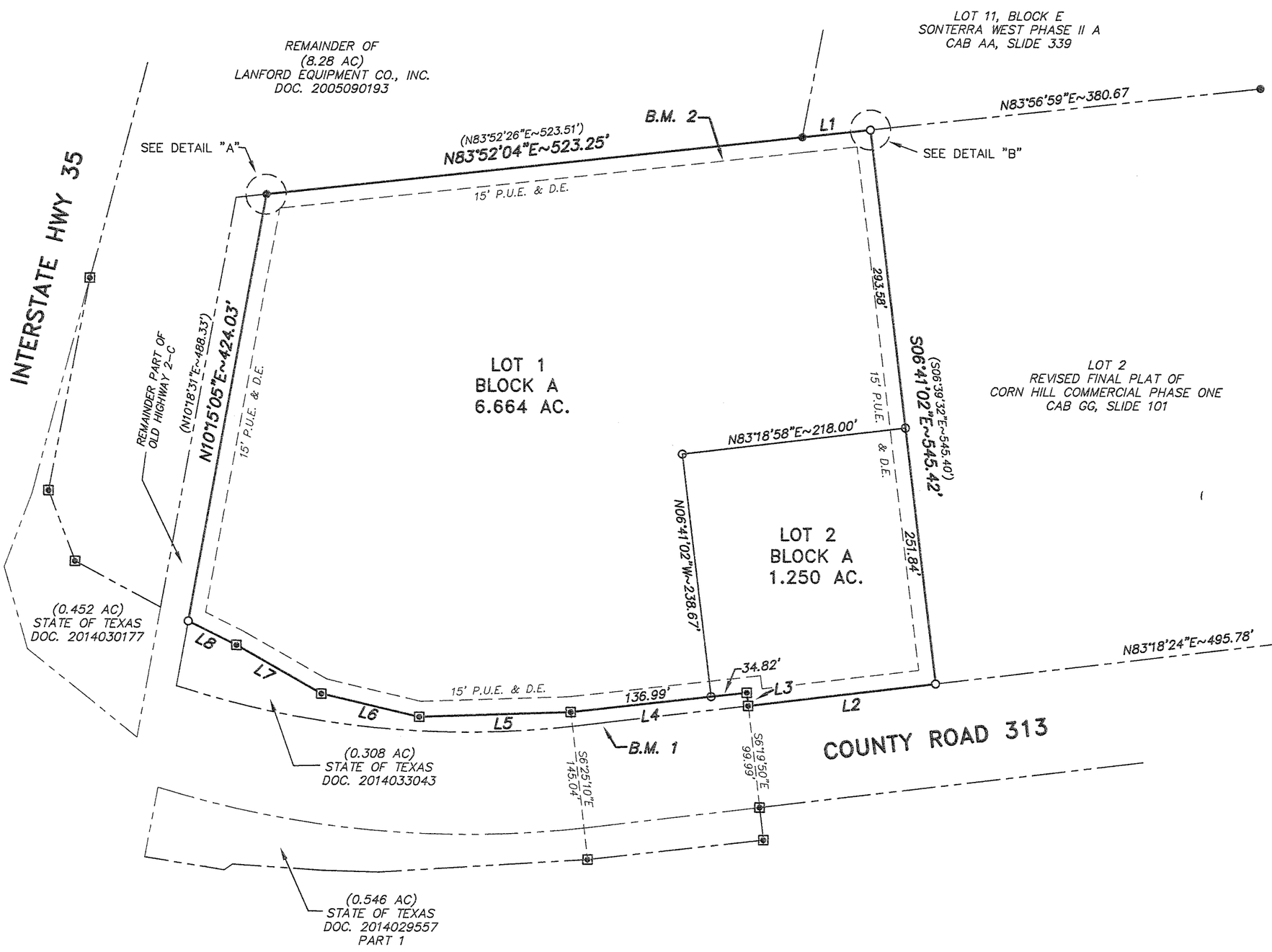
100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.



LOCATION MAP
NOT TO SCALE

BEARING BASIS: TEXAS COORDINATE SYSTEM OF 1983 (NAD83) CENTRAL ZONE

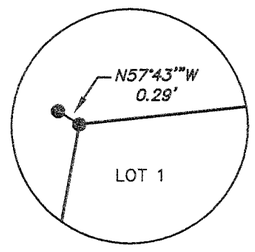


LAND USE SUMMARY:

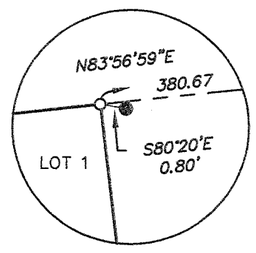
COMMERCIAL LOTS	2
TOTAL LOTS	2

BUILDING SETBACKS:

FRONT STREET	25'
SIDE STREET	15'
REAR	15'
SIDE	5'



DETAIL 'A"
(NOT TO SCALE)



DETAIL 'B"
(NOT TO SCALE)

LEGAL DESCRIPTION:
7.914 ACRES OUT OF THE ISAAC BUNKER SURVEY, ABSTRACT NO. 54, WILLIAMSON COUNTY, TEXAS

OWNER: RVEST LP.
3571 FAR WEST BOULEVARD, SUITE 13
AUSTIN, TEXAS 78731
512-368-4000

SURVEYOR:
TIMOTHY A. LENZ, R.P.L.S.
LENZ & ASSOCIATES, INC.
FIRM NO. 100290-00
4303 RUSSELL DRIVE
AUSTIN, TEXAS 78704
PHONE (512) 443-1174
FAX (512) 443-1550

BENCHMARK NO. 1- SQUARE CUT ON EAST END CONCRETE HEADWALL, NORTH SIDE COUNTY RD. 313, +/- 325' WEST OF S.E. CORNER OF SUBDIVISION.
ELEV. 887.07 - NAVD88 (GEOID 12A)

BENCHMARK NO. 2- SPINDLE SET IN POWER POLE, +/- 146' WEST OF NORTHEAST CORNER OF SUBDIVISION.
ELEV. 898.52 - NAVD88 (GEOID 12A)

LINE TABLE-MEASURED

LINE	BEARING	DISTANCE
L1	N83°56'59"E	66.59
L2	S83°18'24"W	183.29
L3	N06°12'52"W	12.98
L4	S83°40'16"W	171.81
L5	S88°10'41"W	147.11
L6	N76°37'37"W	97.63
L7	N59°59'35"W	95.07
L8	N63°23'03"W	52.43

LINE TABLE-RECORD

LINE	BEARING	DISTANCE
(L1)	N83°59'25"E	66.59
(L2)	S83°20'28"W	351.92
[L3]	S06°20'27"E	12.93
[L4]	N83°39'33"E	171.60
[L5]	N88°12'05"E	147.30
[L6]	S76°36'46"E	97.65
[L7]	S60°00'06"E	95.01
[L8]	S63°23'03"E	52.43

LEGEND

- TxDOT TYPE II CONC. MONUMENT
- 1/2" STEEL PIN FOUND (SPF) (UNLESS NOTED)
- 1/2" STEEL PIN SET W/CAP MARKED 'LENZ & ASSOC.'
- PIPE FOUND
- NAIL FOUND
- COMPUTED POINT
- COTTON SPINDLE FOUND

P.U.E. PUBLIC UTILITY EASEMENT
W.L.E. WATERLINE EASEMENT
D.E. DRAINAGE EASEMENT
B.L. BUILDING LINE

(BRG.~DIST.) RECORD CALL DOC 2012074806
[BRG.~DIST.] RECORD CALL DOC. 2014033043

J.U.A.E. JOINT USE ACCESS EASEMENT
P.O.B. POINT OF BEGINNING
℄ CENTERLINE

LENZ & ASSOCIATES, INC.
FIRM No. 100290-00
COMPLETE PROFESSIONAL LAND SURVEYING SERVICES
(512) 443-1174
4303 RUSSELL DRIVE
AUSTIN, TEXAS 78704

SURVEY #: 2005-0363EE-1 F.B.

313 COMMERCIAL

NOTES:

1) ALL SIDEWALKS ARE TO BE MAINTAINED BY EACH OF THE ADJACENT PROPERTY OWNERS.

2) ALL PUBLIC ROADWAYS AND EASEMENTS AS SHOWN ON THIS PLAT ARE FREE OF LIENS.

3) RURAL MAILBOXES SHALL BE SET THREE FEET FROM THE EDGE OF THE PAVEMENT OR BEHIND CURBS WHEN USED. ALL MAILBOXES WITHIN COUNTY ARTERIAL RIGHT-OF-WAY SHALL MEET THE CURRENT TXDOT STANDARDS. ANY MAILBOX THAT DOES NOT MEET THIS REQUIREMENT MAY BE REMOVED BY WILLIAMSON COUNTY.

4) THIS SUBDIVISION IS SUBJECT TO STORM-WATER MANAGEMENT CONTROLS AS REQUIRED BY WILLIAMSON COUNTY SUBDIVISION REGULATIONS, SECTION B11.1, ON NEW DEVELOPMENT THAT WOULD EVOKE SUCH CONTROLS BEYOND EXISTING CONDITIONS.

5) NO STRUCTURE OR LAND IN THIS PLAT SHALL HEREAFTER BE LOCATED OR ALTERED WITHOUT FIRST OBTAINING A CERTIFCATE OF COMPLIANCE FROM THE WILLIAMSON COUNTY FLOODPLAIN ADMINISTRATOR.

6) THE MINIMUM FINISHED FLOOR ELEVATION SHALL BE ONE FOOT HIGHER THAN THE HIGHEST SPOT ELEVATION THAT IS LOCATED WITHIN FIVE FEET OUTSIDE THE PERIMETER OF THE BUILDING, OR ONE FOOT ABOVE THE BFE, WHICHEVER IS HIGHER.

7) WATER AND WASTEWATER SERVICE SHALL BE PROVIDED BY SONTERRA MUNICIPAL UTILITY DISTRICT.

FIELD NOTE DESCRIPTION

FIELD NOTE DESCRIPTION OF 7.914 ACRES OF LAND OUT OF THE ISAAC BUNKER SURVEY, ABSTRACT NO. 54, WILLIAMSON COUNTY, TEXAS, BEING THAT CERTAIN 8.226 ACRE TRACT CALLED TRACT 14 IN A DEED TO RVEST, LP RECORDED IN DOCUMENT NUMBER 2012074806 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS, SAVE AND EXCEPT THAT CERTAIN 0.308 ACRE TRACT DESCRIBED IN A DEED TO THE STATE OF TEXAS RECORDED IN DOCUMENT NUMBER 2014033043 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS. THE SAID 7.914 ACRES OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING, at a 1/2 inch diameter steel pin set on the north line of County Road 313 at the southeast corner of the said 8.226 acre tract, the same being the southwest corner of Lot 2, Revised Final Plat of Corn Hill Commercial Phase One, a subdivision of record in Cabinet GG, Slide 101 of the Plat Records of Williamson County, Texas, from which a ½ inch diameter steel pin found bears N 83°18'24" E, 495.78 feet;

THENCE, S 83°18'24" W, a distance of 183.29 feet along the south line of the said 8.226 acre RVEST, LP tract and north line of County Road 313 to a TxDOT Type II concrete monument found at the southeast corner of the said 0.308 acre State of Texas tract;

THENCE, traversing the interior of the said 8.226 acre tract along the east and north lines of the said State of Texas tract, the following six (6) courses and distances:

1) N 06°12'52" W, 12.98 feet to a TxDOT Type II concrete monument found;

2) S 83°40'16" W, 171.81 feet to a TxDOT Type II concrete monument found;

3) S 88°10'41" W, 147.11 feet to a TxDOT Type II concrete monument found;

4) N 76°37'37" W, 97.63 feet to a TxDOT Type II concrete monument found;

5) N 59°59'35" W, 95.07 feet to a TxDOT Type II concrete monument found;

6) N 63°23'03" W, 52.43 feet to a ½ inch diameter steel pin set with cap marked Lenz & Assoc on the west line of the said 8.226 acre RVEST, LP tract, the same being the east line of Old Highway 2-C;

THENCE, N 10°15'05" E, a distance of 424.03 feet along the said east line of Old Highway 2-C to a ½ inch diameter steel pin found at the northwest corner of the said 8.226 acre RVEST, LP tract, from which another ½ inch diameter steel pin found bears N 57°43'W, 0.29 feet;

THENCE, N 83°52'04" E, a distance of 523.25 feet along the north line of the said 8.226 acre RVEST, LP tract, being a common line with that certain 8.28 acre tract described in a deed to Lanford Equipment Co., Inc. recorded in Document Number 2005090193 of the Official Public Records of Williamson County, Texas, to a ½ inch diameter steel pin found at an exterior corner of the said 8.28 acre tract, the same being the southwest corner of Lot 11, Block E, Sonterra West Phase II A, a subdivision of record in Cabinet AA, Slide 339 of the Plat Records of Williamson County, Texas;

THENCE, N 83°56'59" E, a distance of 66.59 feet along the south line of the said Lot 11, Block E to a ½ inch diameter steel pin set with cap marked Lenz & Assoc at the northeast corner of the said 8.226 acre RVEST, LP tract, the same being the northwest corner of the said Lot 2, from which a ½ inch diameter steel pin found bears S 80°20' E, 0.80 feet and another ½ inch diameter steel pin found bears N 83°56'59" E, 380.67 feet;

THENCE, S 06°41'02" E, a distance of 545.42 feet along the east line of the said 8.226 acre RVEST, LP tract and west line of the said Lot 2 to the PLACE OF BEGINNING, containing 7.914 acres of land, more or less.

LENZ & ASSOCIATES, INC.
FIRM No. 100290-00
COMPLETE PROFESSIONAL LAND SURVEYING SERVICES
(512) 443-1174
4303 RUSSELL DRIVE
AUSTIN, TEXAS 78704

SURVEY #: 2005-0363EE-1 F.B.

S:\Land Projects 3\SONTERRA DEVELOPMENT PROJECT\dwg\7.914 ac subd plat 2005-0363EE-1.dwg, 6/29/2017 1:57:12 PM, Tim

313 COMMERCIAL

STATE OF TEXAS }
COUNTY OF WILLIAMSON }

KNOWN ALL PERSONS BY THESE PRESENTS:

THAT SONWEST CO., A TEXAS CORPORATION, ACTING BY AND THROUGH ANDY BILGER, VICE PRESIDENT, OWNER OF THAT CERTAIN 1.250 ACRE TRACT OUT OF THE ISAAC BUNKER SURVEY, ABSTRACT NO. 54, WILLIAMSON COUNTY, TEXAS, BEING CONVEYED TO SONWEST CO. BY DEED RECORDED IN DOCUMENT NUMBER 2017071746 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS, DOES HEREBY SUBDIVIDE THE SAID 1.250 ACRES IN ACCORDANCE WITH THE PLAT AS SHOWN HEREON TO BE KNOWN AS "313 COMMERCIAL" AND DO HEREBY DEDICATE TO THE PUBLIC THE USE OF THE STREETS AND EASEMENTS AS SHOWN HEREON. SAID TRACT IS SUBJECT TO ANY EASEMENTS AND/OR RESTRICTIONS HERETOFORE GRANTED AND NOT RELEASED. IT IS THE RESPONSIBILITY OF THE OWNER, NOT THE COUNTY, TO ASSURE COMPLIANCE WITH THE PROVISIONS OF ALL APPLICABLE STATE, FEDERAL, AND LOCAL LAWS AND REGULATIONS TO THE ENVIRONMENT, INCLUDING (BUT NOT LIMITED TO) THE ENDANGERED SPECIES ACT, STATE AQUIFER REGULATIONS AND MUNICIPAL WATERSHED ORDINANCES.

WITNESS MY HAND THIS THE 4th DAY OF October, 2017 A.D.

Andy Bilger
SONWEST CO., A TEXAS CORPORATION
BY: ANDY BILGER, VICE PRESIDENT
3939 BEE CAVE ROAD, SUITE C-100
AUSTIN, TEXAS 78746

STATE OF TEXAS }
COUNTY OF WILLIAMSON }

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THE 4 DAY OF October, 2017, A.D. BY ANDY BILGER, ACTING IN THE CAPACITY HEREIN STATED.

Shari Paddock
NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

MY COMMISSION EXPIRES 01/06/2018

SHARI PADDOCK
NOTARY PUBLIC STATE OF TEXAS
MY COMM. EXP. 01/06/2018
NOTARY ID 12814157-1

SURVEYOR'S CERTIFICATE

I, TIMOTHY A LENZ, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF SURVEYING AND HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY HEREON MADE ON THE GROUND BY ME OR UNDER MY SUPERVISION. ALL CORNER MONUMENTS WERE FOUND OR SET AS SHOWN HEREON.

8-4-2017
TIMOTHY A. LENZ DATE
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 4393
LENZ & ASSOCIATES, INC.
FIRM NO. 100290-00
4303 RUSSELL DRIVE
AUSTIN, TEXAS 78704

STATE OF TEXAS
REGISTERED
TIMOTHY A. LENZ
4393
PROFESSIONAL
LAND SURVEYOR

APPROVED FOR 911 SERVICE THIS THE 4th DAY OF October, 2017 A.D.

Teresa Bak
WILLIAMSON COUNTY ADDRESS COORDINATOR

IN APPROVING THIS PLAT BY THE COMMISSIONERS COURT OF WILLIAMSON COUNTY, TEXAS, IT IS UNDERSTOOD THAT THE BUILDING OF ALL STREETS, ROADS OR OTHER PUBLIC THOROUGHFARES AND AND ANY BRIDGES OR CULVERTS NECESSARY TO BE CONSTRUCTED OR PLACED, IS THE RESPOSIBILITY OF THE OWNER OF THIS TRACT OF LAND COVERED BY THIS PLAT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS PRESCRIBED BY THE COMMISSIONERS COURT OF WILLIAMSON COUNTY, TEXAS. SAID COMMISSIONERS COURT ASSUMES NO OBLIGATION TO BUILD ANY OF THE STREETS, ROADS OR OTHER PUBLIC THOROUGHFARES SHOWN ON THIS PLAT, OR IN CONSTRUCTING ANY BRIDGES OR DRAINAGE IMPROVEMENTS IN CONNECTION THEREWITH. THE COUNTY WILL ASSUME NO RESPONSIBILITY FOR DRAINAGE WAYS OR EASEMENTS IN THE SUBDIVISION, OTHER THAN THOSE DRAINING OR PROTECTING THE ROAD SYSTEM AND STREETS.

THE COUNTY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF REPRESENTATIONS BY OTHER PARTIES ON THIS PLAT. FLOOD PLAIN DATA IN PARTICULAR MAY CHANGE DEPENDING ON SUBSEQUENT DEVELOPMENT. IT IS FURTHER UNDERSTOOD THAT THE OWNERS OF THE TRACT OF LAND COVERED BY THIS PLAT MUST INSTALL AT THEIR OWN EXPENSE ALL TRAFFIC CONTROL DEVICES AND SIGNAGE THAT MAY BE REQUIRED BEFORE THE STREETS IN THE SUBDIVISION HAVE FINALLY BEEN ACCEPTED FOR MAINTENANCE BY THE COUNTY.

STATE OF TEXAS }
COUNTY OF WILLIAMSON }

I, DAN A. GATTIS, COUNTY JUDGE OF WILLIAMSON COUNTY, TEXAS, DO HEREBY CERTIFY THAT THIS MAP OR PLAT, WITH WRITTEN FIELD NOTES SHOWN HEREON, AND THE SURVEYOR'S CERTIFICATE APPEARING HEREON, KNOWN AS SONTERRA WEST SECTION 8-I, HAVING BEEN DULY PRESENTED TO THE COMMISSIONERS COURT OF WILLIAMSON COUNTY, TEXAS AND BY SAID COURT WAS DULY CONSIDERED, WAS ON THIS DAY APPROVED, AND SAID PLAT IS AUTHORIZED TO BE REGISTERED AND RECORDED IN THE PROPERTY RECORDS OF THE COUNTY CLERK OF WILLIAMSON COUNTY, TEXAS.

DAN A. GATTIS DATE
COUNTY JUDGE, WILIAMSON COUNTY, TEXAS

STATE OF TEXAS }
COUNTY OF WILLIAMSON }

KNOWN ALL MEN BY THESE PRESENTS:

I, NANCY RISTER, COUNTY CLERK OF WILLIAMSON COUNTY, TEXAS, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT IN WRITING WITH ITS CERTIFICATE OF AUTHENTICATION WAS FILED FOR RECORD IN MY OFFICE ON THE ____ DAY OF _____, 20__, A.D. AT ____ O'CLOCK ____.M. AND DULY RECORDED THIS THE ____ DAY OF _____, 20__, A.D., AT _____ O'CLOCK __.M., IN THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS, IN DOCUMENT NUMBER _____.

TO CERTIFY WHICH, WITNESS MY HAND AND SEAL AT THE COUNTY COURT OF SAID COUNTY, AT MY OFFICE IN GEORGETOWN, TEXAS, THE DATE LAST SHOWN ABOVE WRITTEN.

NANCY RISTER, COUNTY CLERK, WILLIAMSON COUNTY, TEXAS

BY _____ DEPUTY

LENZ & ASSOCIATES, INC.
FIRM No. 100290-00
COMPLETE PROFESSIONAL LAND SURVEYING SERVICES
(512) 443-1174
4303 RUSSELL DRIVE
AUSTIN, TEXAS 78704

SURVEY #: 2005-0363EE-1 F.B.

Commissioners Court - Regular Session **13.**

Meeting Date: 10/17/2017

Road Bond and Pass Through Financing Construction Summary Report

Submitted By: Dawn Haggard, Road Bond

Department: Road Bond

Agenda Category: Regular Agenda Items

Information

Agenda Item

Receive and acknowledge the October 2017 Construction Summary Report for the Road Bond and Pass Through Financing Programs.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

October 2017 CSR

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 10:29 AM
Form Started By: Dawn Haggard		Started On: 10/12/2017 09:02 AM
Final Approval Date: 10/12/2017		

ROAD BOND & PASS THROUGH FINANCING

Construction Summary Report

WILLIAMSON COUNTY
1848

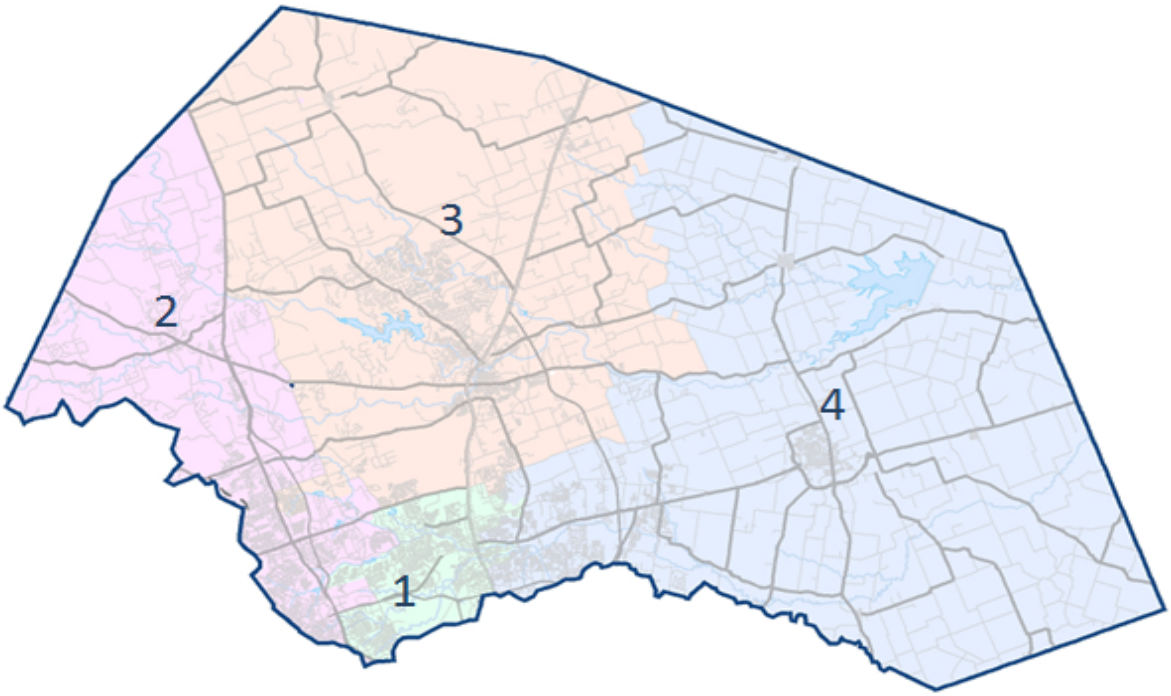
County Judge
Dan Gattis

Commissioners
Terry Cook
Cynthia Long
Valerie Covey
Larry Madsen

October 2017

WWW.ROADBOND.ORG

Volume XVI - Issue No.10



Presented By:

PRIME STRATEGIES, INC.

HNTB

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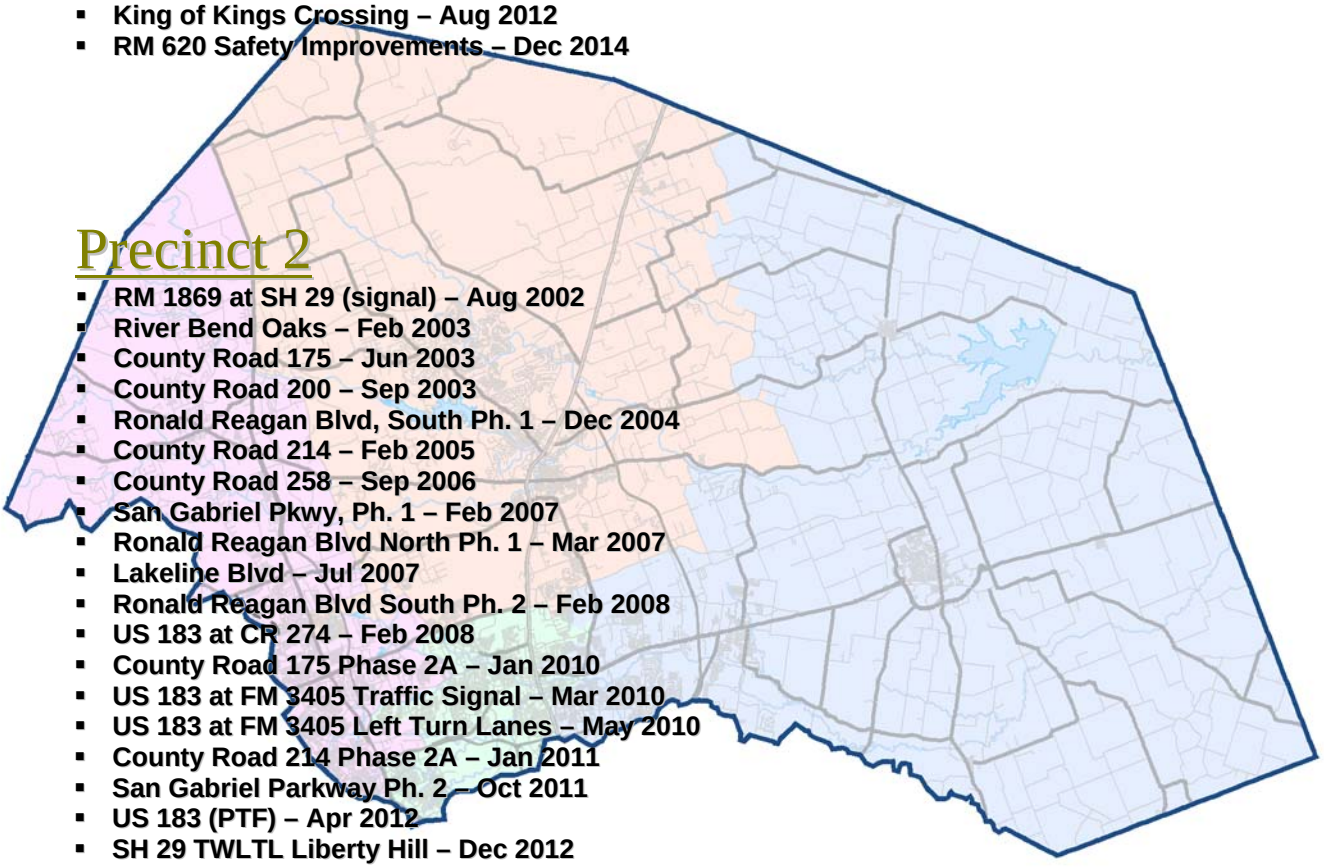
WILLIAMSON COUNTY
ROAD BOND PROGRAM

COMPLETED PROJECTS

CONSTRUCTION SUBSTANTIALLY COMPLETE/OPEN TO TRAFFIC - AS OF SEPTEMBER 2017

Precinct 1

- **Pond Springs Road (signal) – Apr 2002**
- **McNeil Road, Phase 1 – Jan 2005**
- **McNeil Road, Phase 2 – Feb 2007**
- **RM 620, Phase 1 – Jan 2009**
- **Pond Springs Road – Sep 2010**
- **County Road 174 at Brushy Creek – Jun 2011**
- **O'Connor Drive Extension – Apr 2012**
- **King of Kings Crossing – Aug 2012**
- **RM 620 Safety Improvements – Dec 2014**



Precinct 2

- **RM 1869 at SH 29 (signal) – Aug 2002**
- **River Bend Oaks – Feb 2003**
- **County Road 175 – Jun 2003**
- **County Road 200 – Sep 2003**
- **Ronald Reagan Blvd, South Ph. 1 – Dec 2004**
- **County Road 214 – Feb 2005**
- **County Road 258 – Sep 2006**
- **San Gabriel Pkwy, Ph. 1 – Feb 2007**
- **Ronald Reagan Blvd North Ph. 1 – Mar 2007**
- **Lakeline Blvd – Jul 2007**
- **Ronald Reagan Blvd South Ph. 2 – Feb 2008**
- **US 183 at CR 274 – Feb 2008**
- **County Road 175 Phase 2A – Jan 2010**
- **US 183 at FM 3405 Traffic Signal – Mar 2010**
- **US 183 at FM 3405 Left Turn Lanes – May 2010**
- **County Road 214 Phase 2A – Jan 2011**
- **San Gabriel Parkway Ph. 2 – Oct 2011**
- **US 183 (PTF) – Apr 2012**
- **SH 29 TWLTL Liberty Hill – Dec 2012**
- **Hero Way – Feb 2013**
- **County Roads 260/266 – Apr 2013**
- **County Road 277 – Jul 2014**
- **Lakeline Blvd at US 183 – Nov 2014**
- **Lakeline Blvd Ph. 2 – Apr 2015**
- **County Road 258 – Jul 2017**

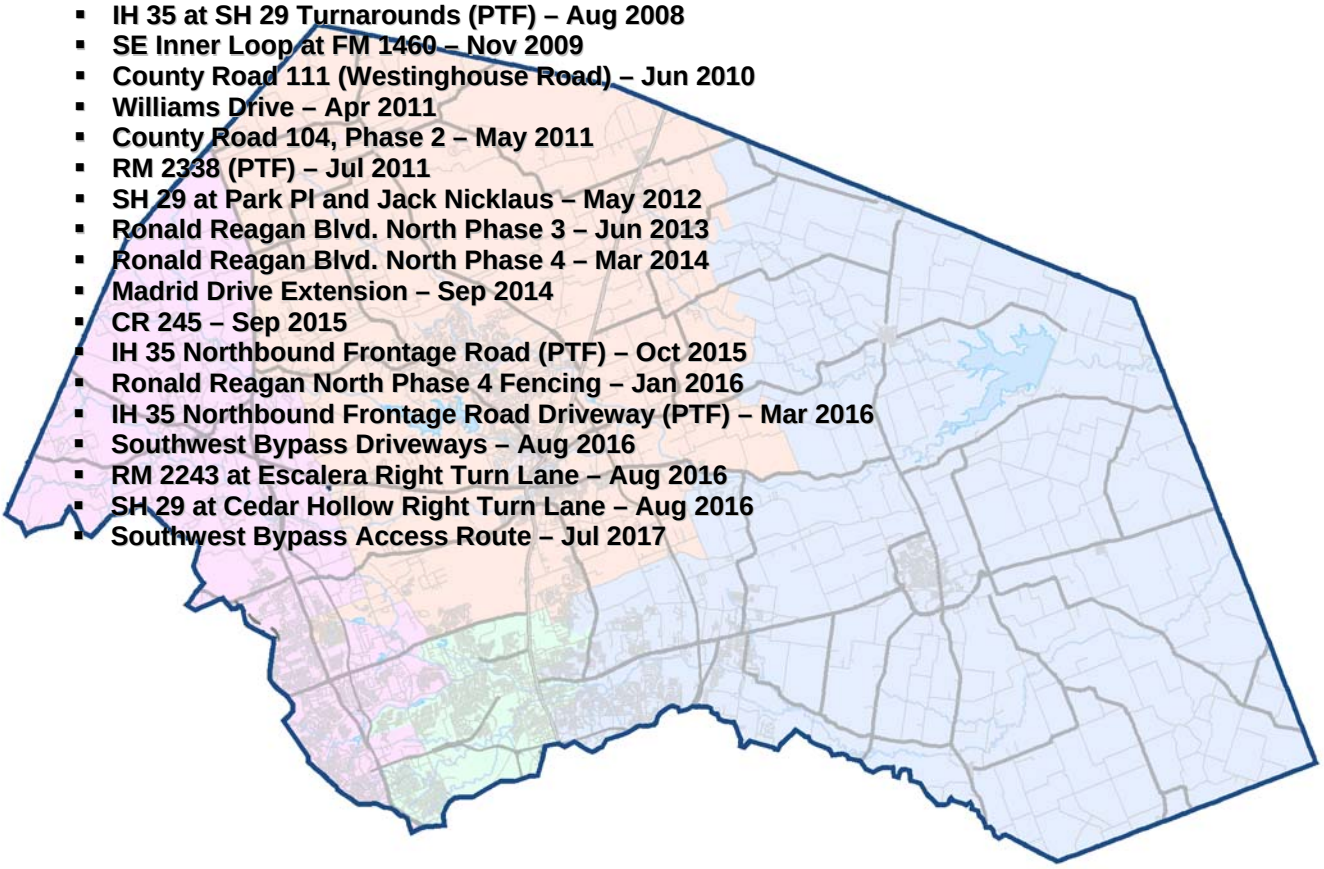
WILLIAMSON COUNTY
ROAD BOND PROGRAM

COMPLETED PROJECTS

CONSTRUCTION SUBSTANTIALLY COMPLETE/OPEN TO TRAFFIC - AS OF SEPTEMBER 2017

Precinct 3

- **Cedar Hollow at SH 29 (signal) – Aug 2002**
- **Georgetown Inner Loop Project 2 – Aug 2003**
- **Georgetown Inner Loop Project 1 – Jun 2004**
- **Georgetown Inner Loop East Extension – Sep 2004**
- **County Road 152 Bridge Replacement – Sep 2004**
- **Inner Loop East (CR 151 to Bus 35) – Oct 2005**
- **Ronald Reagan Blvd North, Ph. 2 – May 2008**
- **12" Water Main Relocation for SH 29 Widening – Jun 2008**
- **SH 29 / CR 104, Ph. 1 – Jul 2008**
- **IH 35 at SH 29 Turnarounds (PTF) – Aug 2008**
- **SE Inner Loop at FM 1460 – Nov 2009**
- **County Road 111 (Westinghouse Road) – Jun 2010**
- **Williams Drive – Apr 2011**
- **County Road 104, Phase 2 – May 2011**
- **RM 2338 (PTF) – Jul 2011**
- **SH 29 at Park Pl and Jack Nicklaus – May 2012**
- **Ronald Reagan Blvd. North Phase 3 – Jun 2013**
- **Ronald Reagan Blvd. North Phase 4 – Mar 2014**
- **Madrid Drive Extension – Sep 2014**
- **CR 245 – Sep 2015**
- **IH 35 Northbound Frontage Road (PTF) – Oct 2015**
- **Ronald Reagan North Phase 4 Fencing – Jan 2016**
- **IH 35 Northbound Frontage Road Driveway (PTF) – Mar 2016**
- **Southwest Bypass Driveways – Aug 2016**
- **RM 2243 at Escalera Right Turn Lane – Aug 2016**
- **SH 29 at Cedar Hollow Right Turn Lane – Aug 2016**
- **Southwest Bypass Access Route – Jul 2017**



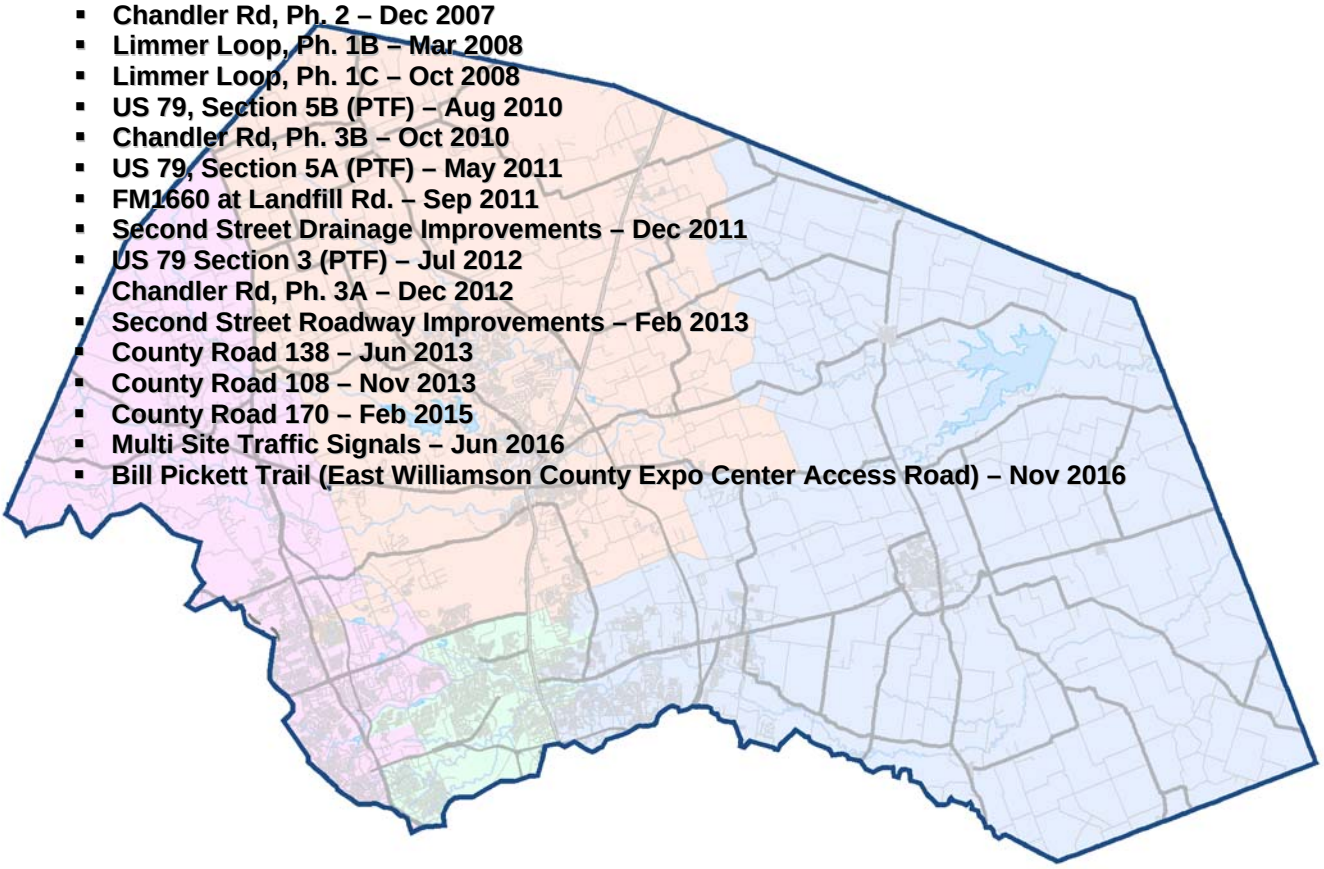
WILLIAMSON COUNTY
ROAD BOND PROGRAM

COMPLETED PROJECTS

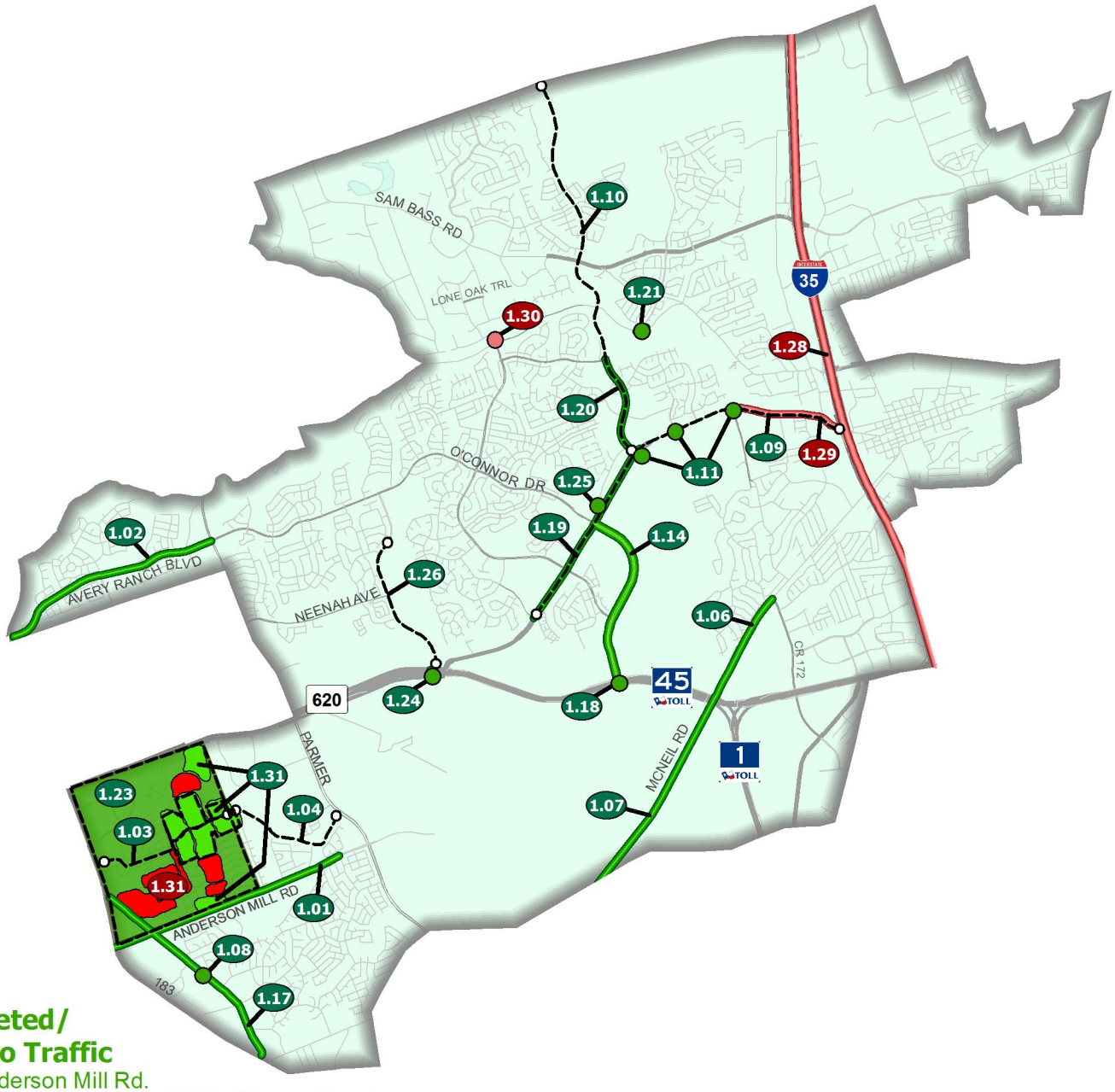
CONSTRUCTION SUBSTANTIALLY COMPLETE/OPEN TO TRAFFIC - AS OF SEPTEMBER 2017

Precinct 4

- **Bridge Replacements (CR 390, 406 & 427) – Nov 2002**
- **County Road 368 and 369 – Nov 2002**
- **County Road 412 – Aug 2003**
- **County Road 300 and 301 – Dec 2003**
- **County Road 424 Bridge Replacement – Jan 2004**
- **Chandler Rd. Extension, Ph. 1 – Mar 2005**
- **County Road 112, Ph. 1 – Aug 2005**
- **County Road 137 – Oct 2005**
- **Limmer Loop, Ph. 1A – Jul 2006**
- **Chandler Rd, Ph. 2 – Dec 2007**
- **Limmer Loop, Ph. 1B – Mar 2008**
- **Limmer Loop, Ph. 1C – Oct 2008**
- **US 79, Section 5B (PTF) – Aug 2010**
- **Chandler Rd, Ph. 3B – Oct 2010**
- **US 79, Section 5A (PTF) – May 2011**
- **FM1660 at Landfill Rd. – Sep 2011**
- **Second Street Drainage Improvements – Dec 2011**
- **US 79 Section 3 (PTF) – Jul 2012**
- **Chandler Rd, Ph. 3A – Dec 2012**
- **Second Street Roadway Improvements – Feb 2013**
- **County Road 138 – Jun 2013**
- **County Road 108 – Nov 2013**
- **County Road 170 – Feb 2015**
- **Multi Site Traffic Signals – Jun 2016**
- **Bill Pickett Trail (East Williamson County Expo Center Access Road) – Nov 2016**



2006 Road Bond Program Projects
Precinct 1 - Commissioner Cook



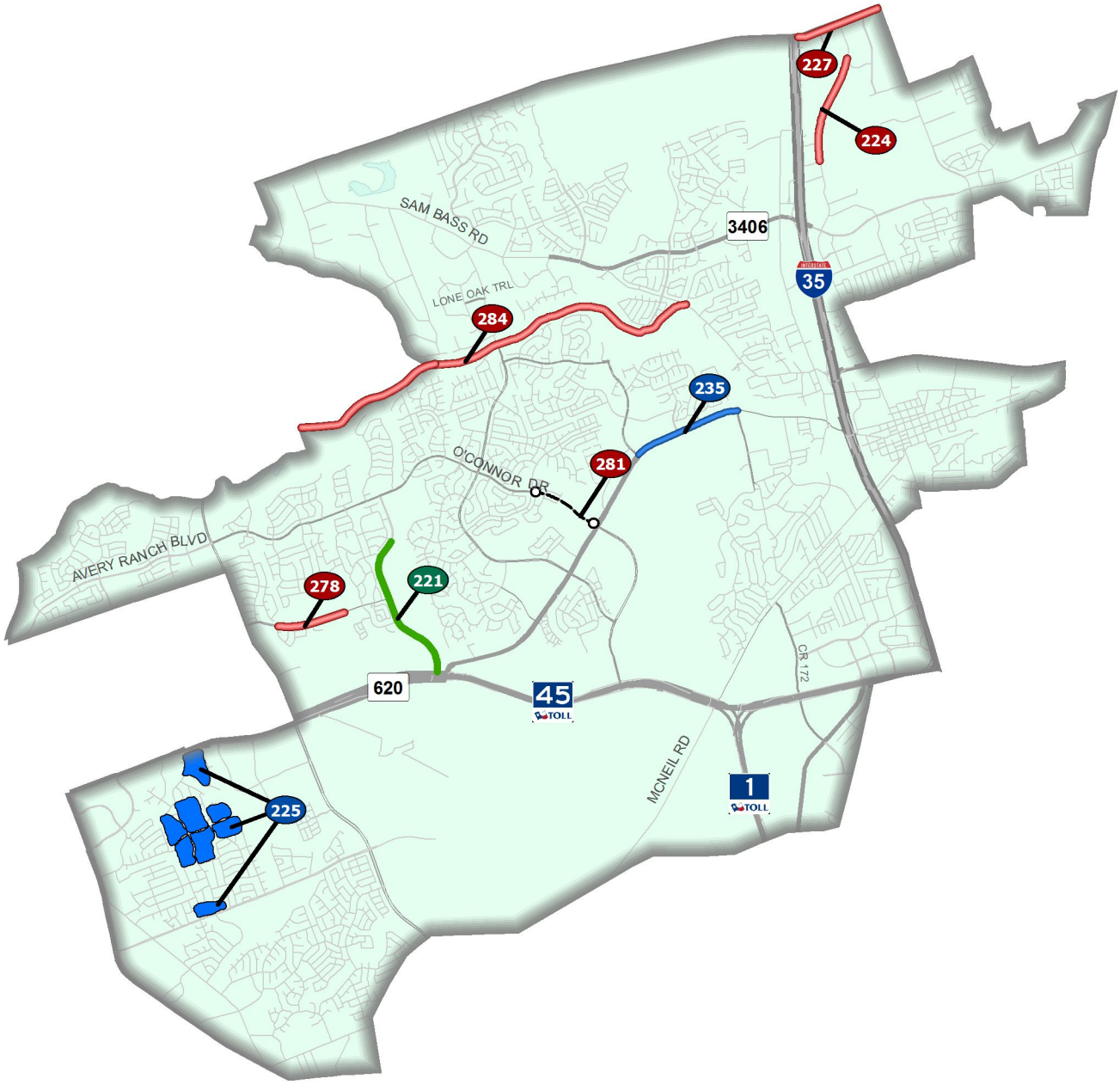
Completed/ Open to Traffic

1.01 Anderson Mill Rd.
1.02 Avery Ranch Blvd. (183 to Parmer Lane)
1.03 Lake Creek Drainage – Phase 1
1.04 Lake Creek Drainage – Phase 2
1.06 McNeil Road - Phase 1
1.07 McNeil Road - Phase 2
1.08 Pond Springs at Turtle Rock Signal
1.09 RM 620 Feasibility Study
1.10 Wyoming Springs North Study
1.11 RM 620 Interim Improvements – Phase 1
1.14 O'Connor Extension
1.17 Pond Springs Road
1.18 O'Connor Overpass at SH 45
1.19 RM 620 (Cornerwood Dr. to Wyoming Springs)
1.20 Wyoming Springs (620 to Brightwater Blvd.)
1.21 CR 174 (Hairy Man Rd.) Bridge Rail Rehab
1.23 Forest North Drainage Study - Phase 1
1.25 King of Kings Crossing
1.26 Pearson Ranch Road (Design)
1.24 Pearson Ranch Underpass at SH 45/ RM 620
1.31 Forest North Drainage Improvements - Phase 2 (design)

In Design

1.28 IH 35 Operational Analysis
1.29 RM 620 (IH 35 to Deep Wood Dr.)
1.30 Great Oaks at Brushy Creek
1.31 Forest North Drainage Improvements - Phase 3

2013 Road Bond Program Projects
Precinct 1 - Commissioner Cook



Completed/Open to Traffic

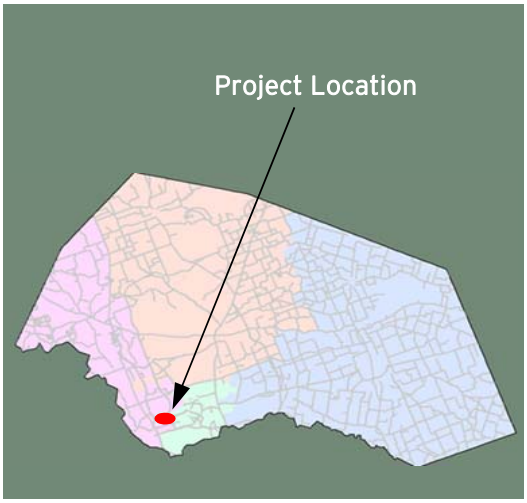
221 Pearson Ranch Road

Under Construction/Bidding

225 Forest North Drainage Improvements - Phase 2
235 RM 620 Phase 2 (Wyoming Springs to Deep Wood Drive)

In Design

224 North Mays Street Extension (La Paloma to Oakmont Dr.)
227 University Blvd Widening (IH 35 to Sunrise Rd.)
278 Neenah Avenue Widening (Olive Hill Drive to end)
281 O'Connor Drive North of RM 620 (Traffic Study)
284 Hairy Man Rd/Brushy Creek Rd Safety Improvements (Arrowhead Trail to Sam Bass Road)



Forest North Drainage Ph 2
(Residential Drainage of the Forest North Subdivision)

Project Length: Residential Neighborhood
Roadway Classification: Drainage Improvements

Project Schedule: August 2016 - April 2018
Estimated Construction Cost: $3.8 Million

SEPTEMBER 2017 IN REVIEW

9/01/2017: DeNucci Constructors completed the additional storm pipe installation at the McGee property and continued concrete driveway and sidewalk construction in the Wisterwood Zone. Asphalt patching for trench repair was completed in the Braeburn Glen Zone.

9/08/2017: Flexbase was placed for trench repair in the Wisterwood Zone. Excavation for the trickle channel began in the Briar Hollow Zone.

9/15/2017: Flexbase placement for trench repair in the Wisterwood Zone was completed. Backfill was completed and the sidewalk was opened. Excavation was completed for the trickle channel in the Briar Hollow Zone.

9/22/2017: Concrete driveway construction began in the Briar Hollow Zone. Asphalt placement continued for trench repair in the Stillforest Zone and additions at the McGee property were completed in the Sherbrooke Zone.

9/29/2017: Concrete driveway construction was completed in the Briar Hollow Zone. Asphalt placement for permanent trench repair in the Stillforest Zone was completed and repairs began in the Wisterwood Zone. The trickle channel construction continued in the Briar Hollow Zone.

Design Engineer: K Friese and Cobb Fendley
Contractor: DeNucci Constructors
Construction Observation:
Ryan Rivera, HNTB

Williamson County
Road Bond Program

HNTB

PRIME STRATEGIES, INC.

Forest North Drainage Ph 1
Project No. 1604-068

Original Contract Price = $3,556,659.50

Letting	Award	Notice To Proceed	Begin Work	Substantial Completion	Work Accepted		Total Bid Days	Days Added	Total Days
6/9/2016	7/1/2016	8/1/2016	8/11/2016				600	35	635

Invoice Number	Beginning Date	Ending Date	Days Charged	Current Invoice	Invoice Total	Current Retainage	Total Retainage	% ($) Used	% Time Used
1	8/11/2016	8/31/2016	21	$152,734.50	$152,734.50	$16,970.50	$16,970.50	4	3
2	9/1/2016	9/30/2016	30	$208,685.70	$361,420.20	$23,187.30	$40,157.80	10	8
3	10/1/2016	10/31/2016	31	$266,921.68	$628,341.88	$29,657.96	$69,815.76	18	13
4	11/1/2016	12/2/2016	32	$182,471.22	$810,813.10	$20,274.58	$90,090.34	23	18
5	12/3/2016	12/31/2016	29	$177,314.98	$988,128.08	$19,701.67	$109,792.01	28	23
6	1/1/2017	1/31/2017	31	$231,302.70	$1,219,430.78	$25,700.30	$135,492.31	35	27
7	2/1/2017	2/28/2017	28	$304,664.67	$1,524,095.45	$33,851.63	$169,343.94	44	32
8	3/1/2017	3/31/2017	31	$191,005.20	$1,715,100.65	$21,222.80	$190,566.74	49	37
9	4/1/2017	4/30/2017	30	$172,795.55	$1,887,896.20	$19,199.50	$209,766.24	54	41
10	5/1/2017	5/31/2017	31	$229,295.63	$2,117,191.83	$25,477.30	$235,243.54	60	46
11	6/1/2017	6/30/2017	30	$317,805.27	$2,434,997.10	$35,308.69	$270,552.23	70	51
12	7/1/2017	7/31/2017	31	$387,533.28	$2,822,530.38	$43,062.26	$313,614.49	81	56
13	8/1/2017	8/31/2017	31	$284,111.91	$3,106,642.29	$31,567.98	$345,182.47	89	61
14	9/1/2017	9/30/2017	30	$329,371.37	$3,436,013.66	-$164,339.65	$180,842.82	93	66

Change Order Number	Approved	Cost This CO	Total COs
01	3/21/2017	31,806.00	31,806.00

1A: Design Error or Omission. Incorrect PS&E . This Change Order revises work along Broadmeade Ave., between Sherbrooke St. and Meadowheath Dr in the Sherbrooke zone. The original plans called for a ditch in this location but, due to the depth of the original planned ditch, which created slopes steeper than 3:1, the ditch was replaced with an underground storm sewer system with inlets. 3F: County Convenience. Additional work desired by the County. New pay items have been added to the contract to reimburse the contractor for removal of trees larger than what was called out in the original contract.

Change Order Number	Approved	Cost This CO	Total COs
02	5/23/2017	58,006.83	89,812.83

2G: Differing Site Conditions (unforseeable). Unadjusted utility (unforseeable). This Change Order compensates the Contractor for the removal and relocation of an existing water line that is in conflict with the proposed storm sewer line BB1 at the corner of Broadmeade Avenue and Braeburn Glen. 4B: Third Party Accommodation. Third party requested work. This change order also compensates the Contractor for completed trench repair of the asbestos line that is being removed. A portion of the trench repair quantity has been added to this change order. The remaining quantity will be added to a future change order. The City of Austin has agreed to compensate the Contractor for these costs.

Change Order Number	Approved	Cost This CO	Total COs
03	8/22/2017	91,734.95	181,547.78

3F: County Convenience. Additional work desired by the County. This Change Order revises drainage work in the Braeburn, Stillforest and Wisterwood Zones. The cost of the additional work was paid by overruning existing pay items where possible or for work not covered by an existing pay item, the cost of the work was tracked by force account (time and materials).

Change Order Number	Approved	Cost This CO	Total COs
04	8/22/2017	59,124.65	240,672.43

3F: County Convenience. Additional work desired by the County. This Change Order revises drainage work at the corner of Broadmeade and Sherbrooke Street in the Sherbrooke Zone. After review, the County requested that the open ditch design be changed to an underground pipe system due the the depth of the ditches.

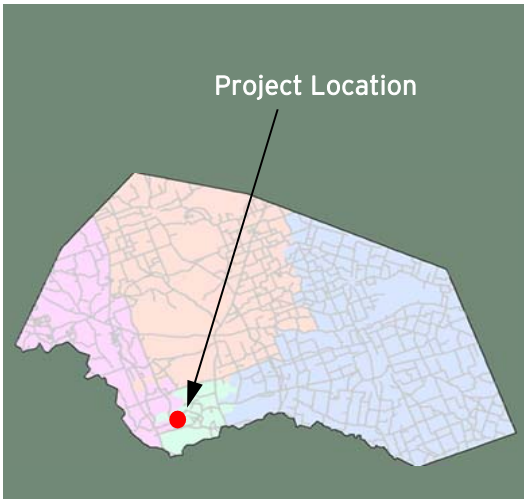
Change Order Number	Approved	Cost This CO	Total COs
05	9/26/2017	65,103.79	305,776.22

3F: County Convenience. Additional work desired by the County. This Change Order revises drainage work in the Braeburn, Stillforest and Wisterwood Zones. The cost of the additional work was paid by overruning existing pay items where possible or for work not covered by an existing pay item, the cost of the work was tracked by force account (time and materials).

Change Order Number	Approved	Cost This CO	Total COs
06	9/26/2017	29,148.01	334,924.23

3F: County Convenience. Additional work desired by the County. This Change Order revises drainage work at the corner of Broadmeade and Sherbrooke Street in the Sherbrooke Zone. After review, the County requested that the open ditch design be changed to an underground pipe system due the the depth of the ditches.

Adjusted Price = $3,891,583.73



Pearson Ranch Road
(Iveans Way to SH 45 ROW)

Project Length: 1.3 Miles
Roadway Classification: Minor Arterial

Project Schedule: November 2016 - October 2017
Estimated Construction Cost: $4.4 Million

SEPTEMBER 2017 IN REVIEW

9/01/2017: Jimmy Evans performed site cleanup and grade prep around the water quality pond. Subcontractor Lone Star Paving completed asphalt placement and subcontractor Greater Austin finished concrete placement for sidewalk and driveways, all on the south end of the project.

9/08/2017: Subcontractor Bryant/Frey continued the 36" bore under RM 620 for the water quality pond outfall. Subcontractor Greater Austin formed and placed concrete for the trickle channel on the north side wall of the water quality pond. Subcontractor N-Line installed permanent signs.

9/15/2017: Subcontractor DIJ finished placing pavement markings on the south end of the project. Subcontractor Woolery Custom Fence installed fence around the water quality pond. A Ribbon Cutting was held on 9/14/17.

9/22/2017: Subcontractor N-line completed the installation of permanent signs. Subcontractor Woolery Custom Fence continued fence installation.

9/29/2017: Subcontractor Bryant/Frey continued with the 36" bore. Subcontractor Woolery Custom Fence continued installing "T" posts, corner bracing, and barbed wire for the fence along the south end of the project.

Design Engineer: Cunningham-Allen
Contractor: Jimmy Evans
Construction Observation:
Seth Turvey, HNTB

Williamson County
Road Bond Program

HNTB

PRIME STRATEGIES, INC.

Pearson Ranch Road (Iveans Way to RM 620)
Project No. 1607-102

Original Contract Price = $4,516,178.77

Letting	Award	Notice To Proceed	Begin Work	Substantial Completion	Work Accepted	Total Bid Days	Days Added	Total Days
9/20/2016	10/11/2016	11/18/2016	11/28/2016			330	0	330

Invoice Number	Beginning Date	Ending Date	Days Charged	Current Invoice	Invoice Total	Current Retainage	Total Retainage	% ($) Used	% Time Used
1	11/28/2016	11/30/2016	3	$195,710.04	$195,710.04	$21,745.56	$21,745.56	5	1
2	12/1/2016	12/31/2016	31	$243,555.13	$439,265.17	$27,061.68	$48,807.24	11	10
3	1/1/2017	1/31/2017	31	$202,139.71	$641,404.88	$22,459.97	$71,267.21	16	20
4	2/1/2017	2/28/2017	28	$508,271.85	$1,149,676.73	$56,474.65	$127,741.86	29	28
5	3/1/2017	3/31/2017	31	$369,038.84	$1,518,715.57	$41,004.32	$168,746.18	38	38
6	4/1/2017	4/30/2017	30	$330,336.72	$1,849,052.29	$36,704.08	$205,450.26	46	47
7	5/1/2017	5/31/2017	31	$492,086.42	$2,341,138.71	-$82,232.43	$123,217.83	56	56
8	6/1/2017	6/30/2017	30	$372,704.74	$2,713,843.45	$19,616.04	$142,833.87	64	65
9	7/1/2017	7/31/2017	31	$813,710.22	$3,527,553.67	$42,826.85	$185,660.72	84	75
10	8/1/2017	8/31/2017	31	$188,607.77	$3,716,161.44	$9,926.71	$195,587.43	88	84
11	9/1/2017	9/30/2017	30	$125,552.68	$3,841,714.12	$6,608.03	$202,195.46	91	93

Change Order Number	Approved	Cost This CO	Total COs
01	5/16/2017	-92,621.70	-92,621.70

4B: Third Party Accommendation. Third party requested work (reduction in scope). This Change Order revises the City of Austin (COA) water and wastewater (W&WW) work shown in the original plans. The COA requested that the installation of the 8" and 24" pipe and related items be deleted from the contract. The COA funded the water and wastewater work shown in the plans and will get the credit for the reduction in cost to the contract.

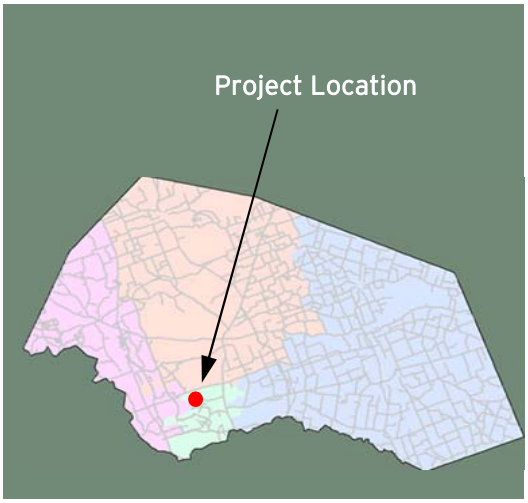
Change Order Number	Approved	Cost This CO	Total COs
02	6/13/2017	11,553.00	-81,068.70

2C: Differing Site Conditions (unforeseeable). New development (conditions changing after PS&E completed). This Change Order revises the pay items for the intersection tie-in work at Neenah Avenue and Pearson Ranch Road. The tie-in location was adjusted 25' to provide a smooth profile through the intersection. This change extends the limits of Neenah reconstruction west of Pearson Ranch Road.

Change Order Number	Approved	Cost This CO	Total COs
03	10/3/2017	921.34	-80,147.36

3H: County Convenience. Cost savings opportunity discovered during construction. This Change Order revises the method of pavement marking elimination that results in a cost savings to the project. 1A: Design Error or Omission. Incorrect PS&E. Changes to plan quantities are documented for various pay items.

Adjusted Price = $4,436,031.41



RM 620 Phase 2
(Wyoming Springs to Deep Wood Drive)

Project Length: .9 Miles
Roadway Classification: Urban Principal Arterial

Project Schedule: January 2017-March 2018
Estimated Construction Cost: $6.1 Million

SEPTEMBER 2017 IN REVIEW

9/01/2017: Cox Commercial Construction potholed for a water valve at Oakwoods Blvd. Subcontractor Austin Materials milled asphalt on the north side of RM 620.

9/08/2017: Installation began for the 5'X2' concrete box culvert between Oaklands Dr. and Oakwood Blvd. Grading the ROW continued from Oaklands Dr. to the Hospital Emergency Entrance.

9/15/2017: The 5'X2' box culvert installation continued east of Oaklands Dr. and the 24" concrete pipe continued between Oaklands Dr. and Oakwood Blvd. Two safety end treatments were removed between Oaklands Dr. and Oakwood Blvd. An 18" concrete pipe was removed east of Oaklands Dr.

9/22/2017: The installation of the 24" concrete pipe continued. An inlet was installed east of Oakwoods Blvd. A 24" water line and 2 valves were installed on the northwest side of Oakwoods Blvd.

9/29/2017: The installation of 24" concrete pipe was completed in various locations. Three inlets and one manhole were installed on Oakwoods Blvd. The installation of 24" water line was completed across Oakwoods Blvd.

Design Engineer: Halff Associates
Contractor: Cox Commercial Construction
Construction Observation: Clayton Weber, HNTB

Williamson County Road Bond Program

HNTB

PRIME STRATEGIES, INC.

RM 620 Safety Improvements (Cornerwood to Wyoming Springs)
Project No. 1608-108

Original Contract Price = $6,082,225.70

Letting	Award	Notice To Proceed	Begin Work	Substantially Complete	Work Accepted		Total Bid Days	Days Added	Total Days
9/28/2016	11/30/2016	1/3/2017	1/13/2017				425	0	425

Invoice Number	Beginning Date	Ending Date	Days Charged	Current Invoice	Invoice Total	% ($) Used	% Time Used
1	1/13/2017	1/31/2017	19	$459,169.50	$459,169.50	8	4
2	2/1/2017	2/28/2017	28	$280,194.00	$739,363.50	12	11
3	3/1/2017	3/31/2017	31	$389,047.00	$1,128,410.50	19	18
4	4/1/2017	4/30/2017	30	$516,962.84	$1,645,373.34	27	25
5	5/1/2017	5/31/2017	31	$285,725.66	$1,931,099.00	32	33
6	6/1/2017	6/30/2017	30	$313,267.57	$2,244,366.57	37	40
7	7/1/2017	7/31/2017	31	$274,834.20	$2,519,200.77	41	47
8	8/1/2017	8/31/2017	31	$285,281.13	$2,804,481.90	46	54
9	9/1/2017	9/30/2017	30	$336,485.34	$3,140,967.24	52	61

Change Order Number	Approved	Cost This CO	Total COs
01	10/3/2017	7,495.80	7,495.80

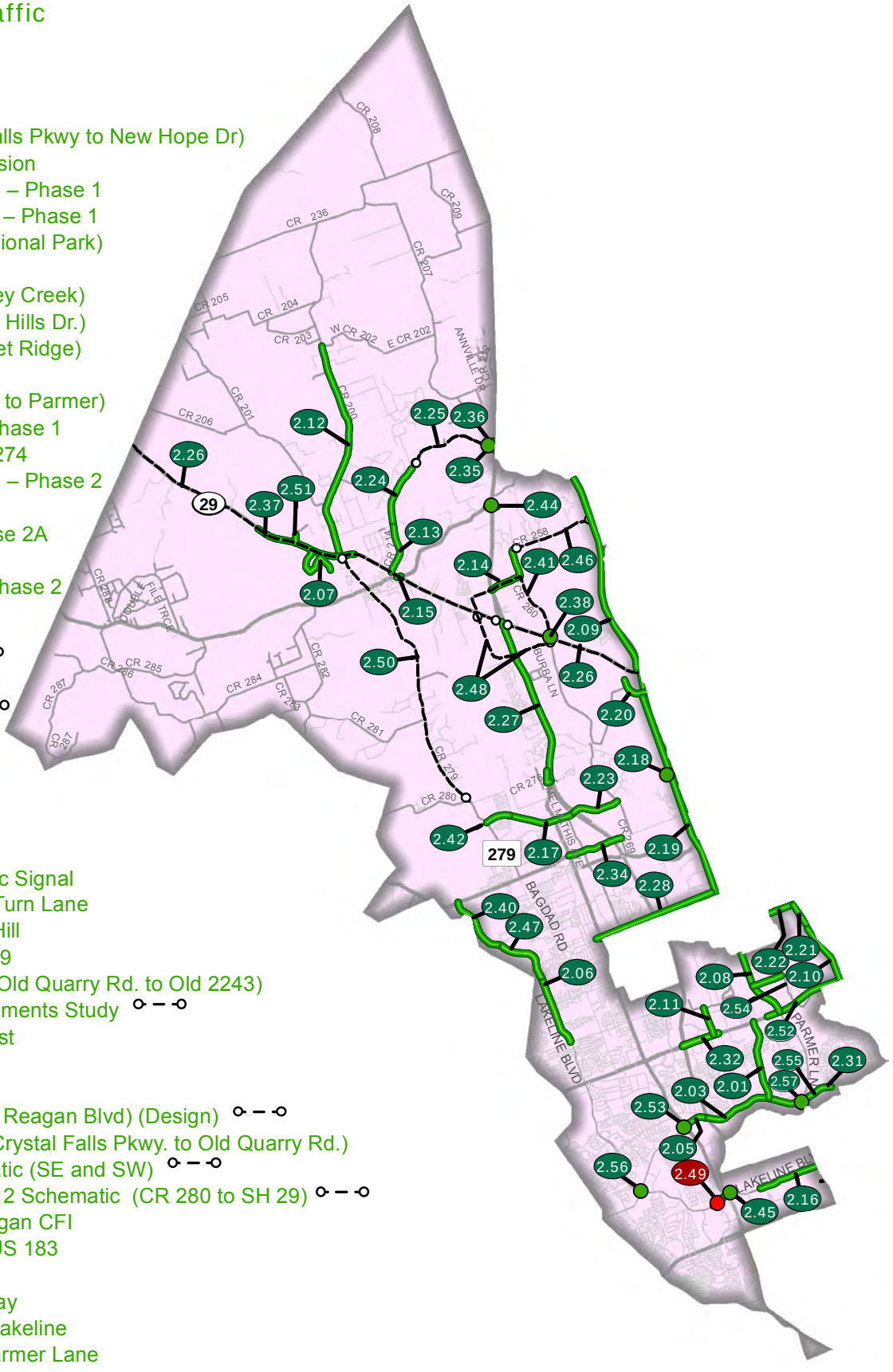
2E: Differing Site Conditions (unforeseeable). Miscellaneous difference in site conditions (unforeseeable). This change order adds revisions to the drainage system along Oaklands Drive, and the west end connection to the existing box culvert. 3H: County Convenience. Cost savings opportunity discovered during construction. This Change Order changed the full depth reconstruction on the east end of the project to level up with hot mix on the existing pavement which eliminated traffic control phases that results in a cost savings for the County.

Adjusted Price = $6,089,721.50

2006 Road Bond Program Projects
Precinct 2 - Commissioner Long

Completed/Open to Traffic

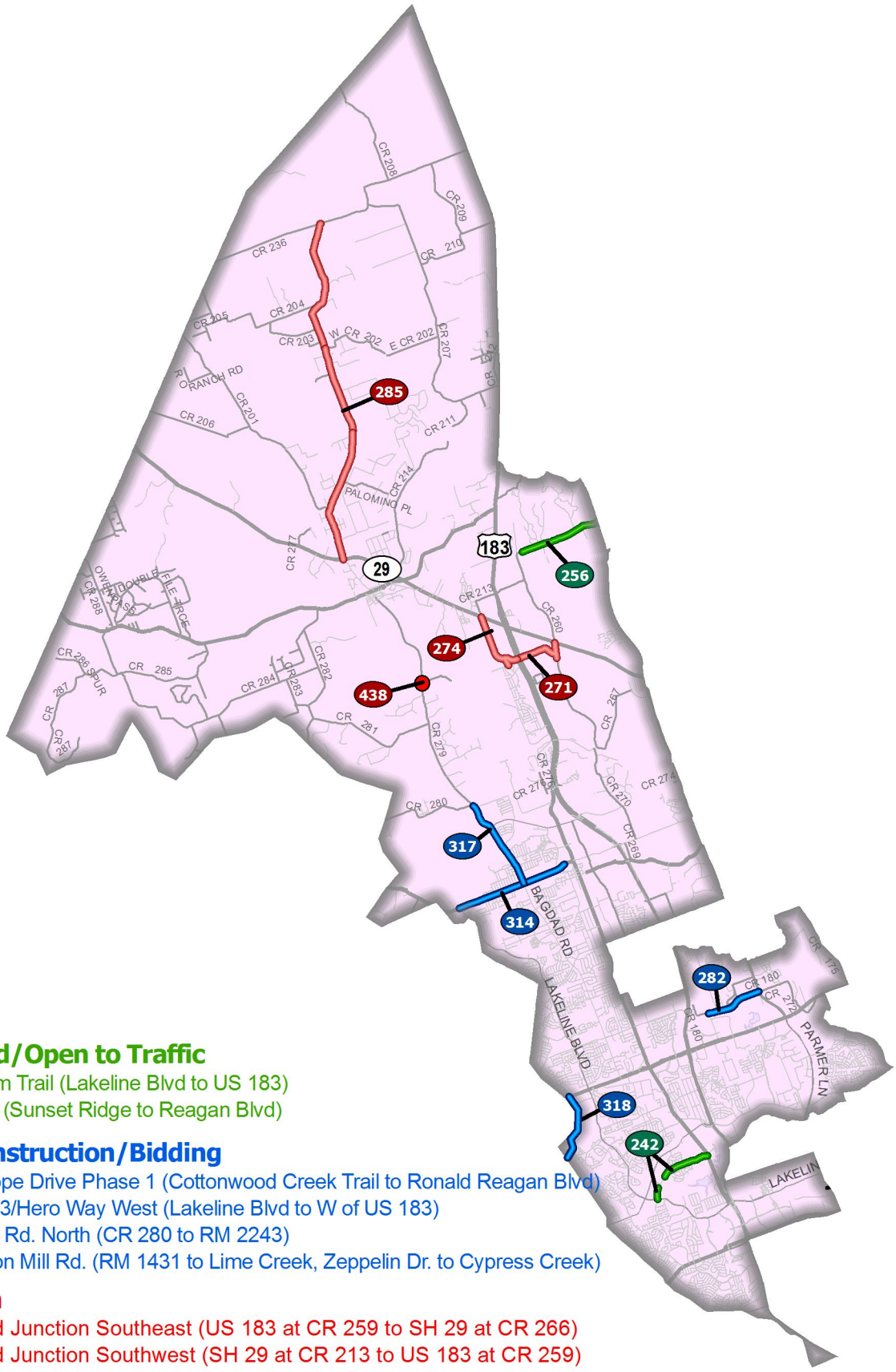
2.01 Vista Ridge Blvd.
2.03 Brushy Creek Road
2.05 Cypress Creek Road
2.06 Lakeline Blvd. (Crystal Falls Pkwy to New Hope Dr)
2.07 River Bend Oaks Subdivision
2.08 Ronald W. Reagan South – Phase 1
2.09 Ronald W. Reagan North – Phase 1
2.10 CR 175 (RM 1431 to Regional Park)
2.11 CR 185
2.12 CR 200 (CR 201 to Lackey Creek)
2.13 CR 214 (SH 29 to Rolling Hills Dr.)
2.14 CR 258 (US 183 to Sunset Ridge)
2.15 RM 1869 at SH 29
2.16 Lakeline Blvd. (Lyndhurst to Parmer)
2.17 San Gabriel Parkway – Phase 1
2.18 US 183 Widening at CR 274
2.19 Ronald W. Reagan South – Phase 2
2.20 Kauffman Loop
2.21 CR 175 Extension – Phase 2A
2.22 CR 179
2.23 San Gabriel Parkway – Phase 2
2.24 CR 214 – Phase 2A
2.25 CR 214 – Phase 2B Schematic
2.26 SH 29 Improvements Study & Schematic
2.27 US 183 (PTF)
2.28 CR 272
2.31 Brushy Creek Road
2.32 RM 1431
2.34 Hero Way
2.35 US 183 at FM 3405 Traffic Signal
2.36 US 183 at FM 3405 Left Turn Lane
2.37 SH 29 TWLTL in Liberty Hill
2.38 CR 260 / CR 266 at SH 29
2.40 Lakeline Blvd. Phase 2 (Old Quarry Rd. to Old 2243)
2.41 Seward Junction Improvements Study
2.42 San Gabriel Parkway West
2.44 US 183 at RM 1869
2.45 Lakeline Blvd. at US 183
2.46 CR 258 (Sunset Ridge to Reagan Blvd) (Design)
2.47 Lakeline Blvd. Phase 3 (Crystal Falls Pkwy. to Old Quarry Rd.)
2.48 Seward Junction Schematic (SE and SW)
2.50 Bagdad Rd. North Phase 2 Schematic (CR 280 to SH 29)
2.52 RM 1431 at Parmer/ Reagan CFI
2.53 Cypress Creek Road at US 183
2.54 CR 272 Overlay
2.55 Brushy Creek East Overlay
2.56 Cypress Creek Road at Lakeline
2.57 Brushy Creek Road at Parmer Lane



In Design

2.49 Lakeline Blvd. Right Turn Lanes

2013 Road Bond Program Projects
Precinct 2 - Commissioner Long



Completed/Open to Traffic

242 Little Elm Trail (Lakeline Blvd to US 183)
256 CR 258 (Sunset Ridge to Reagan Blvd)

Under Construction/Bidding

282 New Hope Drive Phase 1 (Cottonwood Creek Trail to Ronald Reagan Blvd)
314 Old 2243/Hero Way West (Lakeline Blvd to W of US 183)
317 Bagdad Rd. North (CR 280 to RM 2243)
318 Anderson Mill Rd. (RM 1431 to Lime Creek, Zeppelin Dr. to Cypress Creek)

In Design

271 Seward Junction Southeast (US 183 at CR 259 to SH 29 at CR 266)
274 Seward Junction Southwest (SH 29 at CR 213 to US 183 at CR 259)
285 CR 200 - Preliminary Design (SH 29 to CR 236)
438 Bagdad Road at CR 278

CR 258 (Sunset Ridge to Ronald Reagan North)
Project No. 1603-062

Original Contract Price = $5,808,856.58

Letting	Award	Notice To Proceed	Begin Work	Substantial Completion	Work Accepted		Total Bid Days	Days Added	Total Days
4/20/2016	5/10/2016	7/29/2016	8/8/2016	7/25/2017			360	4	364

Invoice Number	Beginning Date	Ending Date	Days Charged	Current Invoice	Invoice Total	Current Retainage	Total Retainage	% ($) Used	% Time Used
1	7/1/2016	7/31/2016	0	$204,692.63	$204,692.63	$22,743.63	$22,743.63	4	0
2	8/8/2016	8/31/2016	24	$647,625.15	$852,317.78	$71,958.35	$94,701.98	16	7
3	9/1/2016	9/30/2016	30	$768,046.95	$1,620,364.73	$85,338.55	$180,040.53	30	15
4	10/1/2016	10/31/2016	31	$523,476.94	$2,143,841.67	$58,164.10	$238,204.63	40	23
5	11/1/2016	11/30/2016	30	$98,689.54	$2,242,531.21	$10,965.50	$249,170.13	41	32
6	12/1/2016	12/31/2016	31	$38,127.37	$2,280,658.58	$4,236.38	$253,406.51	42	40
7	1/1/2017	1/31/2017	31	$636,301.80	$2,916,960.38	$70,700.20	$324,106.71	54	49
8	2/1/2017	2/28/2017	28	$395,763.89	$3,312,724.27	$43,973.76	$368,080.47	61	56
9	3/1/2017	3/31/2017	31	$456,281.18	$3,769,005.45	$50,697.91	$418,778.38	69	65
10	4/1/2017	4/30/2017	30	$317,257.62	$4,086,263.07	$35,250.85	$454,029.23	75	73
11	5/1/2017	5/31/2017	31	$325,276.60	$4,411,539.67	$36,141.84	$490,171.07	81	82
12	6/1/2017	6/30/2017	30	$382,942.21	$4,794,481.88	$42,549.14	$532,720.21	88	90
13	7/1/2017	7/25/2017	25	$732,546.03	$5,527,027.91	-$241,824.00	$290,896.21	96	97
14	7/26/2017	8/31/2017	0	$153,726.71	$5,680,754.62	-$174,962.44	$115,933.77	96	97
15	9/1/2017	9/30/2017	0	$1,997.73	$5,682,752.35	$40.77	$115,974.54	96	97

Change Order Number	Approved	Cost This CO	Total COs
01	10/4/2016	9,660.00	9,660.00

4B: Third Party Accommodation. Third Party Requested Work. This Change Order adds an encasement pipe crossing for a future waterline under CR 258 at Station 160+50. The installation of the additional encasement pipe was requested by the Property owner for future water service. The additional cost of the encasement pipe will be deducted from the Right of Way acquisition agreement with the property owner.

Change Order Number	Approved	Cost This CO	Total COs
02	1/31/2017	33,848.00	43,508.00

3B: County Convenience. Public relations improvement. 3F: County Convenience. Additional work desired by the County. This Change Order changes the hot mix pavement section on CR 258 from one 3" lift of Type C HMAC PG 70-22 to one 2" lift of Type C HMAC PG 64-22 and one 1.5" lift of Type D HMAC PG 64-22 and deletes the one course surface treatment on Ronald Reagan.

Change Order Number	Approved	Cost This CO	Total COs
03	2/28/2017	38,765.00	82,273.00

2C: Differing Site Conditions (Unforseeable). New development (conditions changing after PS&E completed). 4B: Third Party Accommodation. Third part requested work. This change order reflects multiple driveway changes including, extending a driveway culvert to accommodate a new driveway location, relocating a proposed driveway, extending a driveway culvert to save a heritage oak tree, adding a driveway to the project and shortening the guardrail at a proposed driveway location.

Change Order Number	Approved	Cost This CO	Total COs
04	3/21/2017	14,907.69	97,180.69

6C: Untimely ROW/Utilities Utilities Not Clear: This Change Order compensates the Contractor for additional costs to locate and avoid impacts to the AT&T line and to ensure uninterrupted service to adjacent properties. Utilities AT&T and PEC were scheduled to be clear by August 31, 2016, but were not clear until February 2017. The Contractor worked to avoid impacts to the existing AT&T line during the installation of the new City of Georgetown water line.

Change Order Number	Approved	Cost This CO	Total COs
05	3/21/2017	51,199.00	148,379.69

2J: Differing Site Conditions. (unforeseeable) Other. This change order revises various erosion control measures on the project, including the addition of soil retention blanket to the contract to prevent erosion and help to establish vegetation quicker on the slopes and in the ditches. 3H: County Convenience. Cost savings opportunity discovered during construction. This change order replaces the 12" Gabion mattresses with Flexamat. The use of this product was approved by the County Road and Bridge Department. The 3' x 3' gabions were deleted due to changes at the downstream end of Culvert #2.

Change Order Number	Approved	Cost This CO	Total COs
06	5/16/2017	23,780.00	172,159.69

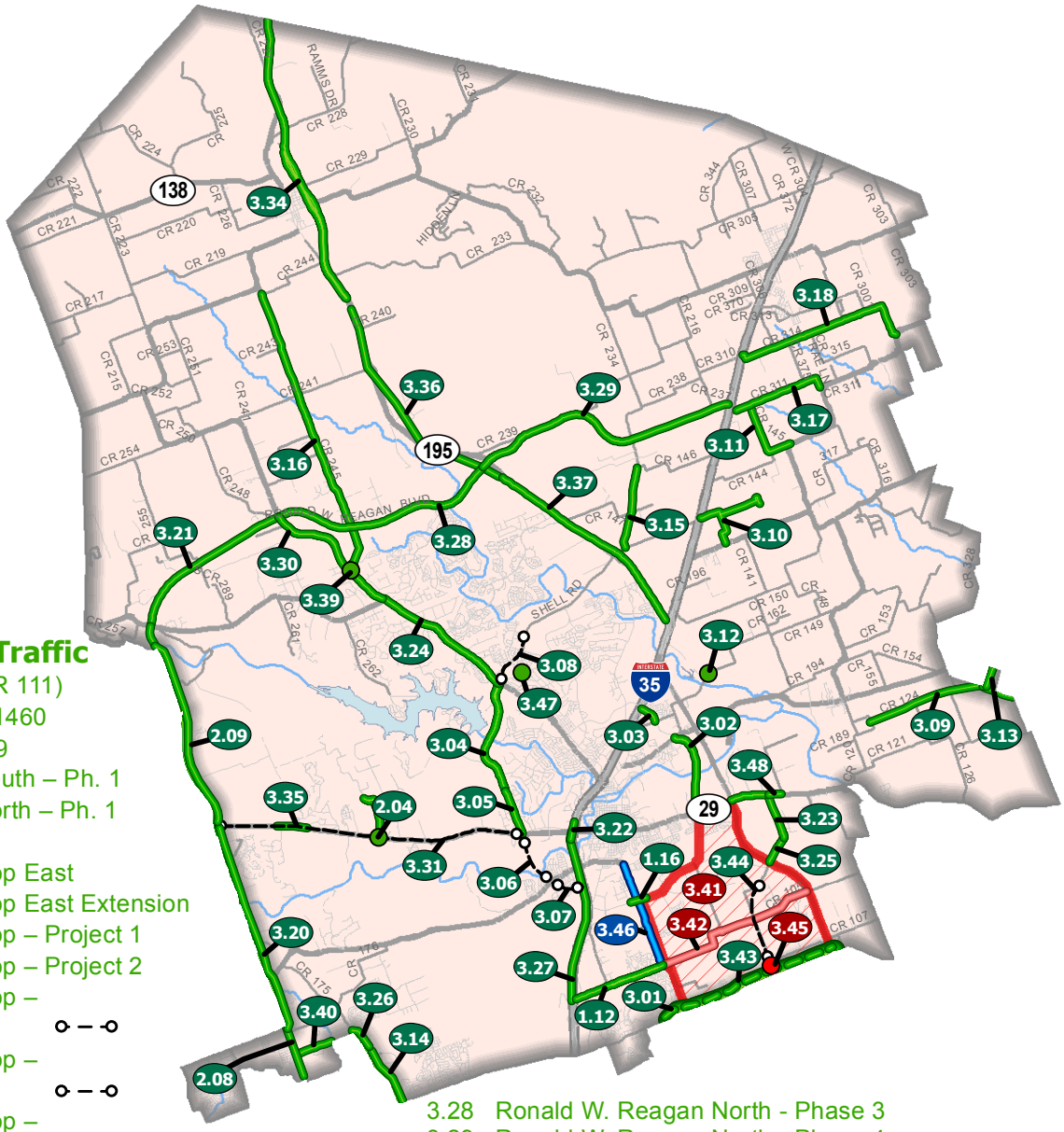
1A: Design Error or Omission. Incorrect PS&E. This Change Order documents the quantity/cost overrun to existing bid Item 508 Constructing Detours. 2C: Differing Site Conditions. New development (conditions changing after PS&E). This change order also includes the deletion of existing bid items; Item 403 Temporary Shoring, Item 552 Wire Fencing and Gate because these items will not be used on the project and a reduction in quantity for ITem 512 Port Concrete Traffic Barrier, Ty 1 and 2.

Change Order Number	Approved	Cost This CO	Total COs
07	6/6/2017	48,426.44	220,586.13

2F: Differing Site Conditions (unforeseeable). Site conditions altered by an act of nature. Ground water was encountered at the east end of the project while excavating to subgrade on the proposed eastbound half of the project. After several days of pumping, cutting trenches, excavating, and reworking subgrade to try and dry it out a French drain was installed to relieve the ground water that was causing the issues with the subgrade.

Adjusted Price = $6,029,442.71

2006 Road Bond Program Projects
Precinct 3 - Commissioner Covey



Completed/Open to Traffic

1.12 Westinghouse Rd. (CR 111)
1.16 SE Inner Loop at FM 1460
2.04 Cedar Hollow at SH 29
2.08 Ronald W. Reagan South – Ph. 1
2.09 Ronald W. Reagan North – Ph. 1
3.01 FM 1460 to CR 110
3.02 Georgetown Inner Loop East
3.03 Georgetown Inner Loop East Extension
3.04 Georgetown Inner Loop – Project 1
3.05 Georgetown Inner Loop – Project 2
3.06 Georgetown Inner Loop – Project 3 Study
3.07 Georgetown Inner Loop – Project 4 Study
3.08 Georgetown Inner Loop – Project 5 Study
3.09 CR 124
3.10 CR 142
3.11 CR 145
3.12 CR 152 Bridge Replacement
3.13 CR 157
3.14 CR 175
3.15 CR 234
3.16 CR 245
3.17 CR 311
3.18 CR 314
3.20 Ronald W. Reagan South - Phase 2
3.21 Ronald W. Reagan North - Phase 2
3.22 IH-35 at SH 29 Turnarounds (PTF)
3.48 SH 29 Widening - 12" Water Main Relocation
3.23 SH 29/CR 104 – Phase 1
3.24 Williams Drive (RM 2338)
3.25 CR 104 – Phase 2
3.26 CR 175 Extension - Phase 2A
3.27 IH 35 Northbound Frontage Rd. and Ramps
3.28 Ronald W. Reagan North - Phase 3
3.29 Ronald W. Reagan North - Phase 4
3.30 RM 2338 (PTF)
3.31 SH 29 Improvements Study & Schematic
3.34 SH 195 Project 1
3.35 SH 29 at Park Place Dr. & Jack Nicklaus Blvd.
3.36 SH 195 Project 2
3.37 SH 195 Project 3
3.39 CR 245 Realignment
3.40 CR 179
3.43 University Blvd. (Chandler Rd) Expansion (Design)
3.44 CR 110 North
(North of CR 107 to North of Sam Houston) (Design)
3.47 Madrid Drive Extension

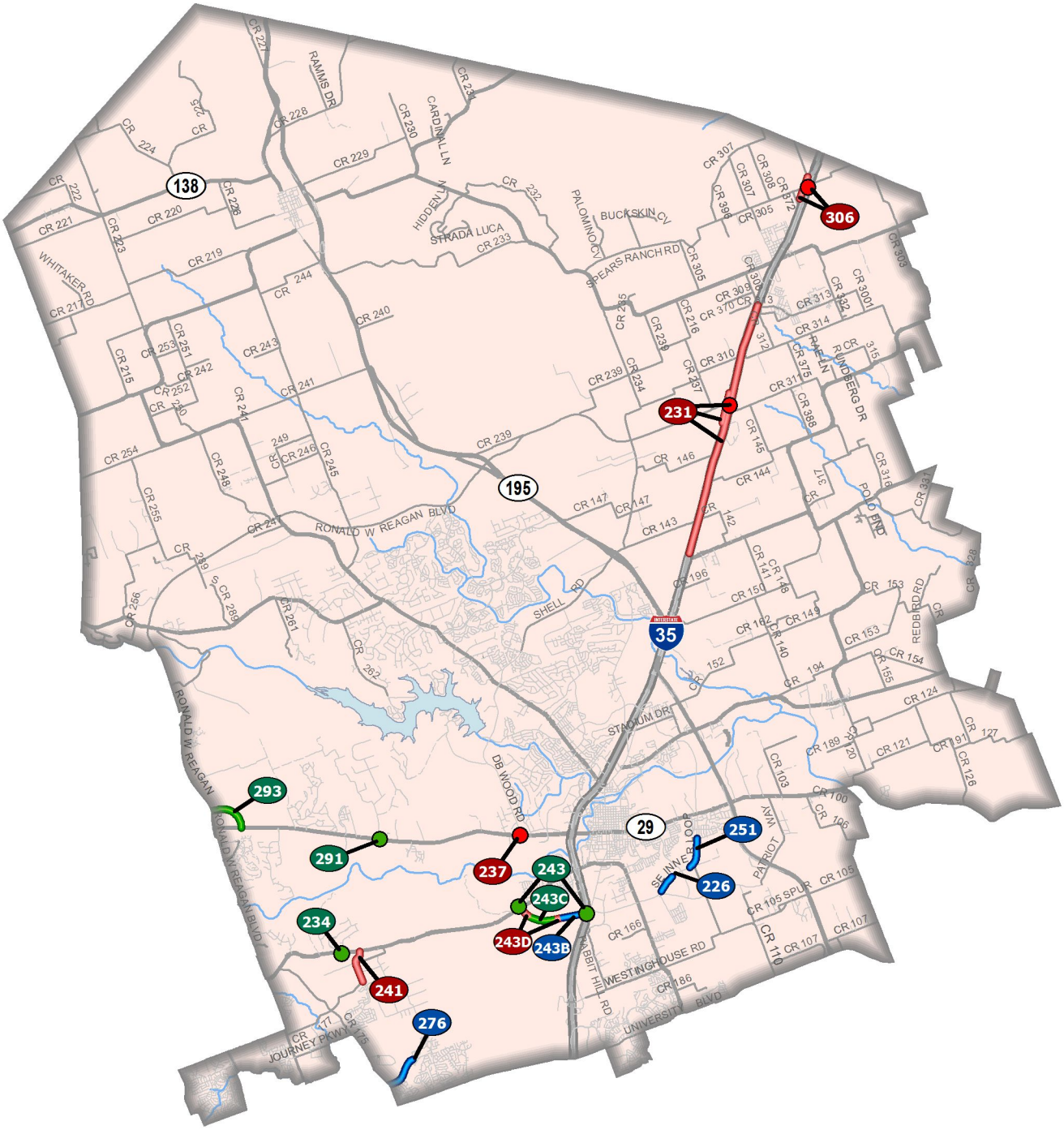
Under Construction/Bidding

3.46 FM 1460 North

In Design

3.41 CR 110 / Arterial A Study
3.42 CR 111 / CR 105 Westinghouse Rd.
(FM 1460 to SH 130)
3.45 CR 110 Middle (North of Limmer Loop to CR 107)

2013 Road Bond Program Projects
Precinct 3 - Commissioner Covey



Completed/ Open to Traffic

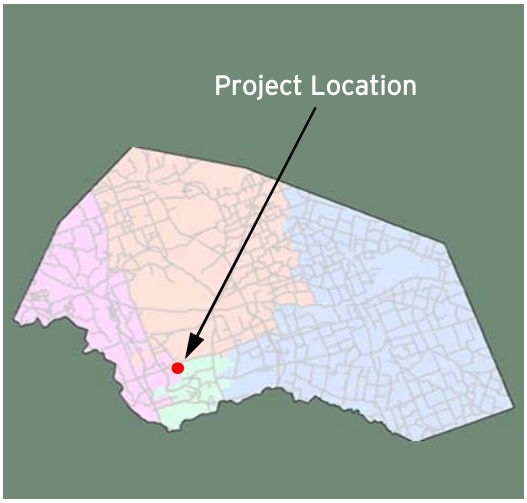
234 RM 2243 At Escalera Parkway
243 Southwest Bypass Driveways
243c Southwest Bypass Access Route
291 SH 29 At Cedar Hollow
293 Kauffman Loop Phase 1 (NE quadrant of Reagan at SH 29)

Under Construction/Bidding

226 Inner Loop Safety Improvements (Rockride Lane to Wilco Way)
243b Southwest Bypass Segment 1
251 Inner Loop Safety Improvements (Belmont Drive to Rockride Lane)
276 Arterial H Extension Phase 1 (CR 175 to Massey Way)

In Design

231 Ronald Reagan at IH 35 (Bridge Replacement)
231 Relocation of 48" Williamson County Regional Raw Waterline - Line B
231 IH 35 Ramp Reversal and Frontage Road Conversion (FM 972 to CR 312)
237 DB Wood At SH 29
241 CR 176 at RM 2243 (Safety Improvements)
243d Southwest Bypass Segment 2
306 CR 305 At IH 35 - Design (Bridge Replacement)
306 Relocation of 48" Williamson County Regional Raw Waterline - Line A



Arterial H
(Sam Bass Rd to existing Arterial H)

Project Length: .83 Miles
Roadway Classification: Minor Arterial

Limited NTP: June 2016 - November 2017
Estimated Construction Cost: $3.3 Million

SEPTEMBER 2017 IN REVIEW

9/01/2017: Patin Construction placed concrete for the walls at Culvert B. Storm Sewer A was excavated and pipe laid. Subcontractor Custom Trench completed the pre-trenching for the storm sewer, laterals, and inlets.

9/08/2017: Forms were set for the deck at Culvert B and the walls of the Pedestrian Culvert. Storm Sewer A pipe continued to be excavated and laid.

9/15/2017: Setting forms, tying steel, and concrete placement were completed for the deck at Culvert B. Setting wall forms and steel tying continued for the Pedestrian Culvert. The concrete pipe laterals and inlets were installed on Storm Sewer A and B. The pipe sleeves were installed for future use between Culvert A and CR 175.

9/22/2017: Concrete was placed for the walls at the Pedestrian Culvert and the headwalls at Culvert B.

9/29/2017: Concrete was placed for the headwalls and deck at the Pedestrian Culvert and the wings and headwalls at Culvert B were completed. Excavation of subgrade and the sidewalk continued from the Pedestrian Culvert to CR 175.

Design Engineer: Randall Jones
Contractor: Patin Construction
Construction Observation:
Steven Shull, HNTB

Williamson County
Road Bond Program

HNTB

PRIME STRATEGIES, INC.

Arterial H Phase 1 (Sam Bass Rd to existing Arterial H)
Project No. 1603-064

Original Contract Price = $3,210,934.80

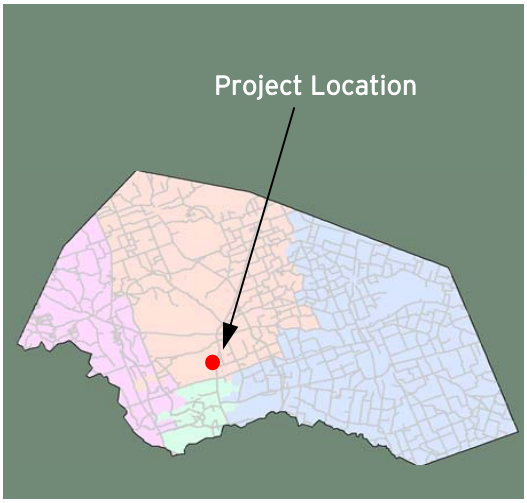
Letting	Award	Notice To Proceed	Begin Work	Substantial Completion	Work Accepted	Total Bid Days	Days Added	Total Days
4/20/2016	5/16/2016	2/17/2017 (Limited) 5/26/2017	6/5/2017			180	426	606

Invoice Number	Beginning Date	Ending Date	Days Charged	Current Invoice	Invoice Total	Current Retainage	Total Retainage	% ($) Used	% Time Used
1	6/1/2016	6/30/2016	0	$134,198.10	$134,198.10	$14,910.90	$14,910.90	4	0
2	7/1/2016	7/31/2016	0	$182,746.89	$316,944.99	$20,305.21	$35,216.11	11	0
3	8/1/2016	8/31/2016	0	$93,893.40	$410,838.39	$10,432.60	$45,648.71	14	0
4	9/1/2016	9/30/2016	0	$206,817.21	$617,655.60	$22,979.69	$68,628.40	21	0
5	6/4/2017	6/30/2017	27	$47,340.00	$664,995.60	$5,260.00	$73,888.40	22	4
6	7/1/2017	8/31/2017	62	$587,022.75	$1,252,018.35	$65,224.75	$139,113.15	42	15
7	9/1/2017	9/30/2017	30	$320,055.75	$1,572,074.10	$35,561.75	$174,674.90	52	20

Change Order Number	Approved	Cost This CO	Total COs
01	8/29/2017	132,771.00	132,771.00

4C: Third Party Accommodation. Compliance requirements of new laws and/or policies (impacting third party). Project delayed, due to TCEQ approval process for Water Quality pond design changes. 2C: Differing Site Conditions (unforeseeable). New development (conditions changing after PS&E completed). Design changes were necessary, due to unknown elevation of existing water table

Adjusted Price = $3,343,705.80



Southwest Bypass Segment One
(IH 35 Southbound to .5 miles west)

Project Length: .5 Mile
Roadway Classification: Collector

Project Schedule: August 2017 - July 2018
Estimated Construction Cost: $5.6 Million

SEPTEMBER 2017 IN REVIEW

9/01/2017: Jordan Foster Construction cleared the ROW on the west side of the railroad tracks and placed 3'x5' rock on the access route off RM 2243.

9/08/2017: Subcontractor RSI completed the installation of the silt fence. Subcontractor Austin Wood Recycling cleared the ROW on both sides of the railroad tracks. A Groundbreaking was held on 9/8/17.

9/15/2017: The 3'x5' rock continued to be placed on the access route from the quarry to the west end of the project. The house slab was demolished, all old fencing was removed, and hand clearing began for permanent fencing.

9/22/2017: The placement of the 3'x5' rock was completed on the access route from the quarry to the west end of the project. Stripping and stockpiling topsoil continued on both sides of the railroad tracks. Subcontractor Austin Wood Recycling finished mulching the brush piles.

9/29/2017: Reinforced structures were built over the gas line and ROW was cleared between the railroad tracks and the gas line. Subgrade was prepared for embankment on the east side.

Design Engineer: HDR Engineering
Contractor: Jordan Foster Construction
Construction Observation:
Steven Shull, HNTB

Williamson County
Road Bond Program

HNTB

PRIME STRATEGIES, INC.

Southwest Bypass Segment 1
2017-0065-CIP

Original Contract Price = $5,599,200.86

Letting	Award	Notice To Proceed	Begin Work	Substantial Completion	Work Accepted		Total Bid Days	Days Added	Total Days
							337	0	337

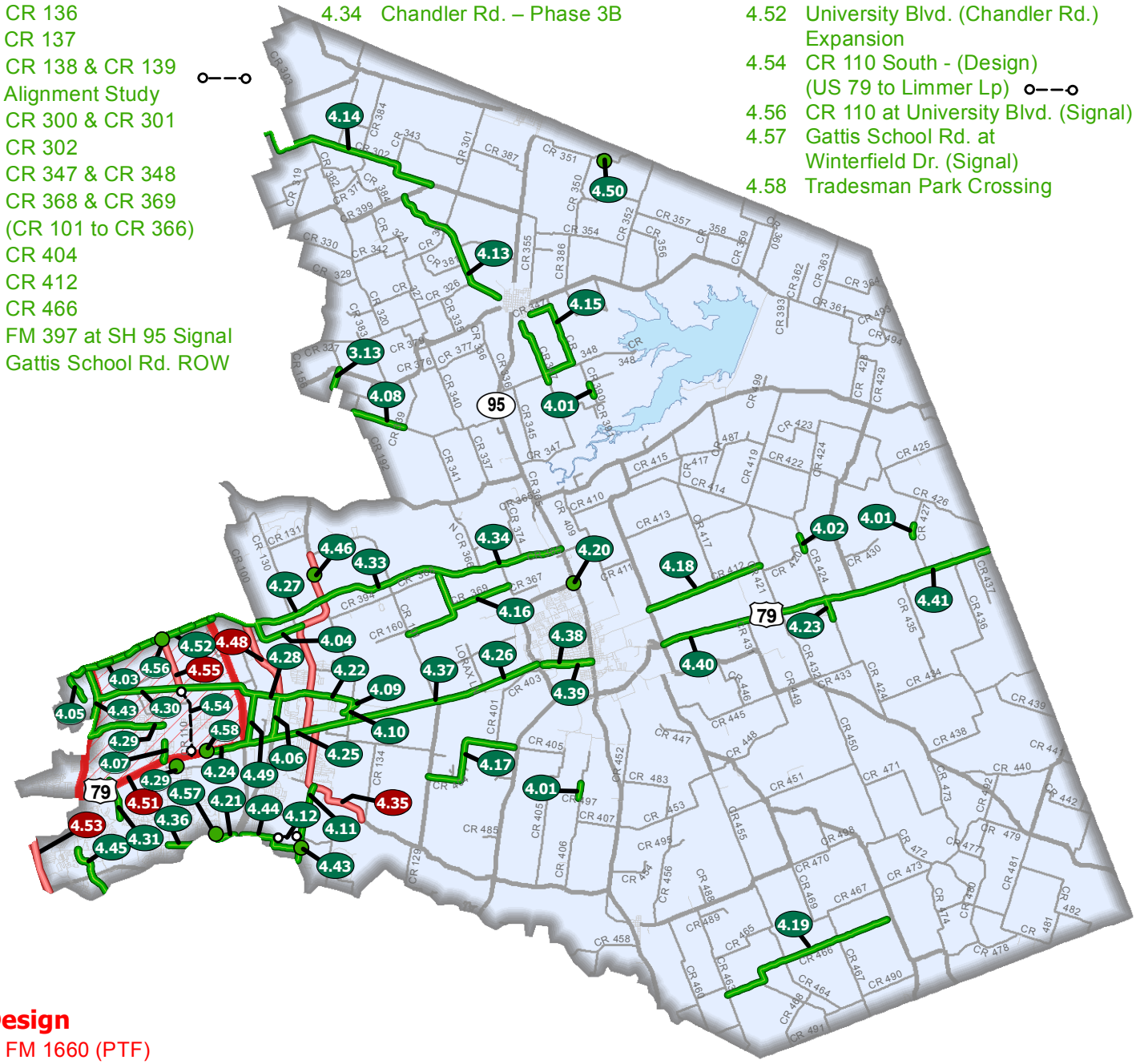
Invoice Number	Beginning Date	Ending Date	Days Charged	Current Invoice	Invoice Total	Current Retainage	Total Retainage	% ($) Used	% Time Used
1	8/21/2017	9/30/2017	41	$481,587.30	$481,587.30	$25,346.70	$25,346.70	9	12

Adjusted Price = $5,599,200.86

2006 Road Bond Program Projects
Precinct 4 - Commissioner Madsen

Completed/Open to Traffic

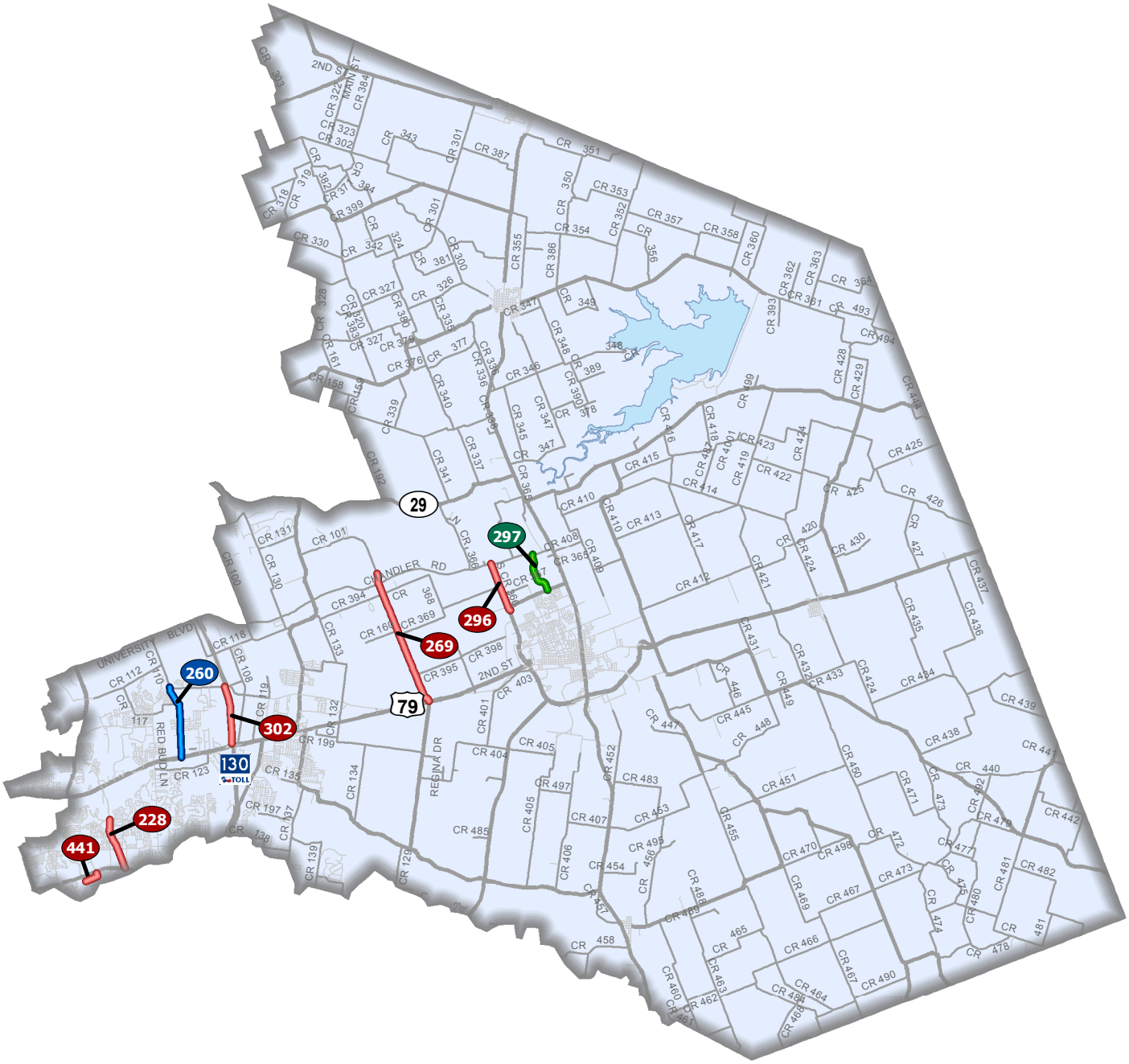
3.13 CR 157
4.01 Bridge Replacements Phase 1 (CR 390, 406, 427)
4.02 CR 424 Bridge Replacement
4.03 Chandler Rd. – Phase 1
4.04 CR 100
4.05 CR 112 – Phase 1
4.06 CR 119
4.07 CR 122 at US 79
4.08 CR 124
4.09 CR 132
4.10 CR 136
4.11 CR 137
4.12 CR 138 & CR 139 Alignment Study
4.13 CR 300 & CR 301
4.14 CR 302
4.15 CR 347 & CR 348
4.16 CR 368 & CR 369 (CR 101 to CR 366)
4.17 CR 404
4.18 CR 412
4.19 CR 466
4.20 FM 397 at SH 95 Signal
4.21 Gattis School Rd. ROW
4.22 Limmer Loop – Phase 1A
4.23 Thrall School Zone
4.24 US 79 – Section 1
4.25 US 79 – Section 2
4.26 US 79 – Section 3A
4.27 Chandler Rd. – Phase 2
4.28 Limmer Loop – Phase 1B
4.29 CR 113 / Old Settlers Blvd.
4.30 Limmer Loop – Phase 1C
4.31 Kenney Fort Boulevard – Phase 1
4.33 Chandler Rd. – Phase 3A
4.34 Chandler Rd. – Phase 3B
4.36 Gattis School Road
4.37 US 79 - Section 3 (PTF)
4.38 2nd Street Improvements
4.39 2nd Street Drainage Improvements
4.40 US 79 Section 5A (PTF)
4.41 US 79 Section 5B (PTF)
4.43 FM 1460 Section 2
4.44 CR 138
4.45 CR 170
4.46 FM 1660 at Landfill Rd. (CR 128)
4.49 CR 108
4.50 CR 351 at Donahoe Creek
4.52 University Blvd. (Chandler Rd.) Expansion
4.54 CR 110 South - (Design) (US 79 to Limmer Lp)
4.56 CR 110 at University Blvd. (Signal)
4.57 Gattis School Rd. at Winterfield Dr. (Signal)
4.58 Tradesman Park Crossing



In Design

4.35 FM 1660 (PTF)
4.48 CR 119
4.51 CR 110/ Arterial A Study Area
4.53 IH 35 Operational Analysis
4.55 CR 110 Middle (North of Limmer Loop to CR 107)

2013 Road Bond Program Projects
Precinct 4 - Commissioner Madsen



Completed/Open to Traffic

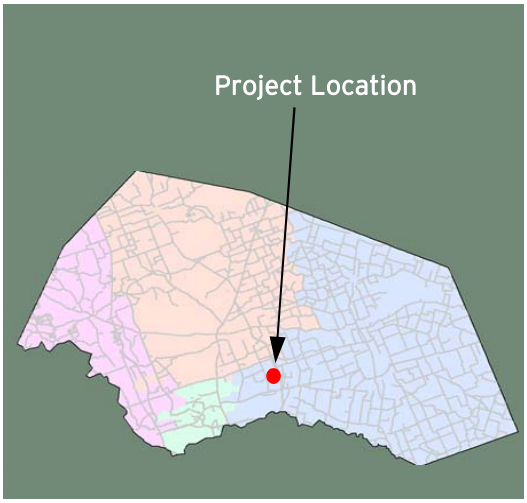
297 Bill Pickett Trail (Carlos Parker Blvd to Chandler Road)

Under Construction/Bidding

260 CR 110 South (US 79 to Limmer Loop)

In Design

228 Kenney Fort Blvd. Ph. 1 (Forest Creek Blvd. to Gattis School Rd.)
269 CR 101 (US 79 to North of Chandler Rd.)
296 CR 366 Widening - Chandler Rd. to Carlos G. Parker Blvd.
302 SH 130 Frontage Roads Phase 3 (SBFR US 79 to Limmer Loop)
441 Roundville Lane (A.W. Grimes Blvd. to EBFR of SH 45)



County Road 110 South
(US 79 to Limmer Loop)

Project Length: 2.25 Miles
Roadway Classification: Minor Urban Arterial

Project Schedule: January 2017-June 2018
Estimated Construction Cost: $11.2 Million

SEPTEMBER 2017 IN REVIEW

9/01/2017: Chasco Constructors continued placing flexbase from CR 122 to Limmer Loop. The Abutment 1 backwall was poured. Subcontractor Texas Walls completed the temporary retaining wall of the McNutt Creek bridge.

9/08/2017: Concrete was placed for curb and gutter from CR 122 to Limmer Loop and for riprap at the southeast retaining wall of McNutt Creek. Subcontractor Texas Walls poured concrete for the retaining wall coping anchor slab. Subcontractor Roadway Specialties installed metal beam guard fence and end treatments at Culvert 3 south of Parma St.

9/15/2017: Concrete for riprap was placed at the northeast retaining wall of McNutt Creek. Bridge beams were placed for the McNutt Creek Bridge.

9/22/2017: Excavation continued for the widening at Limmer Loop. Embankment was placed for the temporary detour at CR 122. Concrete deck panels were placed on the McNutt Creek bridge and the slab overhangs were formed. Curb and Gutter was completed between CR 122 and Limmer Loop.

9/29/2017: Flexbase was finished between CR 122 and Limmer Loop. Steel was tied on the McNutt Creek bridge in preparation for deck placement.

Design Engineer: Dannenbaum
Contractor: Chasco Constructors
Construction Observation:
David Boone, HNTB

Williamson County
Road Bond Program

HNTB

PRIME STRATEGIES, INC.

CR 110 South (US 79 to Limmer Loop)
Project No. 1604-075

Original Contract Price = $11,224,589.02

Letting	Award	Notice To Proceed	Begin Work	Substantial Completion	Work Accepted	Total Bid Days	Days Added	Total Days
9/27/2016	10/17/2016	1/3/2017	1/13/2017			510	0	510

Invoice Number	Beginning Date	Ending Date	Days Charged	Current Invoice	Invoice Total	Current Retainage	Total Retainage	% ($) Used	% Time Used
1	1/13/2017	3/31/2017	78	$1,644,069.60	$1,644,069.60	$182,674.40	$182,674.40	16	15
2	4/1/2017	4/30/2017	30	$393,511.50	$2,037,581.10	$43,723.50	$226,397.90	20	21
3	5/1/2017	5/31/2017	31	$582,730.20	$2,620,311.30	$64,747.80	$291,145.70	26	27
4	6/1/2017	6/30/2017	30	$630,479.66	$3,250,790.96	$70,053.30	$361,199.00	32	33
5	7/1/2017	7/31/2017	31	$803,057.63	$4,053,848.59	$89,228.62	$450,427.62	40	39
6	8/1/2017	8/31/2017	31	$1,287,965.24	$5,341,813.83	$143,107.25	$593,534.87	53	45
7	9/1/2017	9/30/2017	30	$469,097.52	$5,810,911.35	$52,121.95	$645,656.82	58	51

Change Order Number	Approved	Cost This CO	Total COs
01	6/15/2017	-5,837.31	-5,837.31

1A: Design Error or Omission. Incorrect PS&E. The proposed flow of water from Box Culvert 6 went through the middle of a downstream property; therefore, a redesign and relocation of Culvert 6 was necessary. 4B: Third Party Accommodation. Third party requested work. The property owner at the downstream end of the proposed culvert requested that the water flow around his property limits, as it does in the current conditions. 2C: Differing Site Conditions. New development (conditions changing after PS&E completed). The Mozart Street connection to CR 110 South was permitted and built after the completion of the CR 110 South roadway plans and plan revisions were required to tie-in properly

Change Order Number	Approved	Cost This CO	Total COs
02	9/19/2017	2,840.00	-2,997.31

2E: Differing Site Conditions (unforeseeable). Miscellaneous difference in site conditions (unforeseeable) (Item 9). This Change Order substitutes a wingwall with a special drop inlet due to safety slope reasons. The proposed culvert upstream flowline was approximately 4’ below ditch profile grades, which would have resulted in an extremely steep backslope at the end of the culvert. 4B: Third Party Accommodation. Third party requested work. This Change Order also addresses over-runs and under-runs for various waterline components and includes substituting the HDPE bore pipe for steel encasement pipe at the request of Seminole Pipeline.

Adjusted Price = $11,221,591.71

Commissioners Court - Regular Session **14.**

Meeting Date: 10/17/2017

Discuss consider and take appropriate action on the Department of Infrastructure projects and issues update

Submitted For: Robert Daigh **Submitted By:** Lydia Linden, Infrastructure

Department: Unified Road System

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on the Department of Infrastructure projects and issues update.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	09/19/2017 03:04 PM
Form Started By: Lydia Linden		Started On: 09/18/2017 01:07 PM
Final Approval Date: 09/19/2017		

Commissioners Court - Regular Session **15.**

Meeting Date: 10/17/2017

Seward Junction SW K Friese Contract Amendment No. 1

Submitted By: Marie Walters, Road Bond

Department: Road Bond

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on a Contract Amendment No. 1 to the Seward Junction Southwest contract between Williamson County and K Friese + Associates, Inc. relating to the 2013 Road Bond Program. Project: P274. Funding Source: Road Bonds.

Background

The $50,000.00 contract compensation cap increase will allow for the execution of WA #2 for construction phase services and the TCEQ CZP review fee.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

SewardJctSW-KFriese-ContractAmendment1

SewardJctSW-KFriese-WA2

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Marie Walters		Started On: 10/11/2017 05:48 PM
Final Approval Date: 10/12/2017		

RECEIVED
OCT 05 2017
BY: PST

CONTRACT AMENDMENT NO. 1
TO
WILLIAMSON COUNTY CONTRACT FOR ENGINEERING SERVICES

WILLIAMSON COUNTY ROAD BOND PROJECT:
SEWARD JUNCTION SOUTHWEST ("Project")

THIS CONTRACT AMENDMENT NO. 1 to Williamson County Contract for Engineering Services is by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and K Friese + Associates, Inc. (the "Engineer") and becomes effective as of the date of the last party's execution below.

WHEREAS, the County and the Engineer executed the Williamson County Contract for Engineering Services dated effective April 9, 2015 (the "Contract");

WHEREAS, pursuant to Article 14 of the Contract, the terms of the Contract may be modified by a written fully executed Contract Amendment;

WHEREAS, the "Compensation Cap" under Article 5 of the Contract limits the maximum amount payable under the Contract to $ 350,000.00 ; and,

WHEREAS, the Rate Schedule in Exhibit D of the Contract are limited to the rates noted in said Exhibit D; and,

WHEREAS, it has become necessary to amend the Contract.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Contract is amended as follows:

I. The Compensation Cap under Article 5 of the Contract is hereby increased from $ 350.000.00 to $ 400.000.00.

II. The hourly Rates in the original Exhibit D of the Contract are hereby amended as shown in the attached revised Exhibit D (must be attached).

All other terms of the Contract are unchanged and will remain in full force and effect.

IN WITNESS WHEREOF, the County and the Engineer have executed this Contract Amendment, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER:

By: _____
Signature

Thomas M. Owens, P.E.
Printed Name

Executive Vice President
Title

19 SEP 17
Date

COUNTY:

By: _____
Signature

_____
Printed Name

_____
Title

_____
Date

OK
10/6/2017

RECEIVED
OCT 05 2017
BY: PST

EXHIBIT C

WORK AUTHORIZATION NO. 2
PROJECT: SEWARD JUNCTION SW

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated April 9, 2015 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and K Friese & Associates, Inc. (the "Engineer").

Part1. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is $41,492.00.

Part 3. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on June 15, 2019. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 6. This Work Authorization is hereby accepted and acknowledged below.

OK
MY 10/6/2017

EXECUTED this ____ day of _____, 20___.

ENGINEER:	COUNTY:
K Friese & Associates, Inc.	Williamson County, Texas
By: _____	By: _____
Signature	Signature
Thomas M. Owens, P.E.	_____
Printed Name	Printed Name
Executive Vice President	_____
Title	Title

LIST OF ATTACHMENTS

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

Attachment B – Services to be provided by the Engineer

Existing Facility
None.

Proposed Facility
New three and six lane roadway with HMAC or PCC pavement, concrete ribbon curb, curb and gutter, roadside drainage with 150-feet right-of-way. This project utilizes Williamson County and TxDOT 2014 standards.

1. CONSTRUCTION PHASE SERVICES

   a. REQUESTS FOR INFORMATION - RFIs (**20** assumed):

   - Attend site visits and/or meetings to gather data and information for RFI responses.
   - Respond to Contractor RFIs and provide design clarifications, additional information, and additional data to the GEC as required.

   b. REVIEW CONTRACTOR SUBMITTALS & SHOP DRAWINGS (**20** assumed):

   - Review Contractor submittals and shop drawings received from the GEC. Shop drawings will be reviewed for general conformance with the plans and specifications and will include providing stamped concurrence, exceptions or resubmittal notations to the Contractor.

   c. PLAN REVISIONS FOR FIELD CHANGES (**20** sheets assumed):

   - Engineer will provide minor revisions to plans in order to address differing site conditions, third party accommodation, or other owner directed changes. Revisions to plans will include revision clouds around any changes, will include descriptions and quantities of changes, CAD files, and will be sealed by a professional engineer.

   d. ATTEND FIELD & MONTHLY PROGRESS MEETINGS (4 assumed):

   - Engineer will attend meetings at the project site and progress meetings at Williamson County representative office or Project Office.
   - Provide periodic inspection (**2** hours per visit) during construction to address questions on interpretation of plans and review the construction work related to adherence to the design plans.

2. DELIVERABLES

a. All contract documents, including hard copies and electronic files, shall be turned over to the County at each milestone and at the completion of the project. Documents shall be posted to the County's project management database as requested.

Attachment C – Work Schedule

Notice To Proceed:	Spring 2018
Substantial Completion	Spring 2019
Final Completion	Summer 2019

SEWARD JUNCTION SW - WA#2
Williamson County
Attachment D - FEE SCHEDULE

TASK Hourly Rate: K Friese & Associates, Inc.	SHEETS/ UNITS	PRINCIPAL $ 200.00	PROJECT MANAGER $190.00	SENIOR ENGINEER $135.00	ENGINEER $110.00	EIT $95.00	SR. ENGR. TECH. $85.00	CLERICAL $64.00	Sub Total Hours	Hr/Unit	KFA Labor Cost
					Hours						
I. Construction Phase Services											
a. REQUESTS FOR INFORMATION	20		40		20			4	64	3.2	$ 10,056.00
b. REVIEW CONTRACTOR SUBMITTALS AND SHOP DRAWINGS	20		12		12			4	28	1.4	$ 3,856.00
c. PLAN REVISIONS FOR FIELD CHANGES	20		40		60			4	104	5.2	$ 14,456.00
d. ATTEND FIELD AND MONTHLY PROGRESS MEETINGS	4		16		8			4	28	7.0	$ 4,176.00
TOTAL NUMBER OF SHEETS:									Column Total = 224		
HOURS:			108		100			16	Row Total = 224		
LABOR COST:		$ -	$ 20,520	$ -	$ 11,000	$ -	$ -	$ 1,024			$ 32,544.00
			48.2%		44.6%			7.1%			$ 32,544.00

DIRECT EXPENSES:					
	Travel:				
	Mileage	800	miles	$ 0.56	$448.00
	Per diem		days		
	Lodging		nights		
	Copies:				
	Reproduction		copies	$ 0.20	
	Media (mylar)		sheets		
	Misc Expenses:				
	TCEQ CZP Review Fee	8500	LS	$ 1.00	$8,500.00
			each	$ 25.00	
TOTAL DIRECT COST:					$ 8,948
TOTAL PROJECT COST:					$ 41,492

Commissioners Court - Regular Session **16.**

Meeting Date: 10/17/2017

Seward Junction SE Aguirre-Fields Contract Amendment No. 3

Submitted By: Marie Walters, Road Bond

Department: Road Bond

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on a Contract Amendment No. 3 to the Seward Junction Southeast contract between Williamson County and Aguirre-Fields, LP relating to the 2013 Road Bond Program. Project: P271. Funding Source: Road Bonds.

Background

The $185,000.00 increase in compensation cap will allow for the execution of a construction phase services work authorization as well as plan revision for field changes to address landowner requests during ROW acquisition process since final plans were submitted.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

SewardJctSE-AguirreFields-ContractAmendment3

SewardJctSE-AguirreFields-WA2

SewardJctSE-AguirreFields-SWA4WA1

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Marie Walters		Started On: 10/11/2017 05:58 PM
Final Approval Date: 10/12/2017		

RECEIVED
OCT 09 2017
BY: PSL

CONTRACT AMENDMENT NO. 3
TO
WILLIAMSON COUNTY CONTRACT FOR ENGINEERING SERVICES

WILLIAMSON COUNTY ROAD BOND PROJECT:
SEWARD JUNCTION SOUTHEAST ("Project")

THIS CONTRACT AMENDMENT NO. 3 to Williamson County Contract for Engineering Services is by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Aguirre-Fields, LP (the "Engineer") and becomes effective as of the date of the last party's execution below.

WHEREAS, the County and the Engineer executed the Williamson County Contract for Engineering Services dated effective September 25, 2014 (the "Contract");

WHEREAS, pursuant to Article 14 of the Contract, the terms of the Contract may be modified by a written fully executed Contract Amendment;

WHEREAS, the "Compensation Cap" under Article 5 of the Contract limits the maximum amount payable under the Contract to $900,000.00; and,

WHEREAS, the Rate Schedule in Exhibit D of the Contract are limited to the rates noted in said Exhibit D; and,

WHEREAS, it has become necessary to amend the Contract.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Contract is amended as follows:

I. The Compensation Cap under Article 5 of the Contract is hereby increased from $715,000.00 to $900,000.00.
II. Add Exhibit D (Rate Sheet) for Steger Bizzell

All other terms of the Contract are unchanged and will remain in full force and effect.

IN WITNESS WHEREOF, the County and the Engineer have executed this Contract Amendment, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER: Aguirre & Fields, LP
Aguirre, LLC – General Partner

By: _____
Signature

Oscar R. Aguirre
Printed Name

President
Title

10/02/2017
Date

COUNTY:

By: _____
Signature

_____
Printed Name

_____
Title

_____
Date

OK
10/11/17

STEGER BIZZELL

EXHIBIT D

Rate Schedule

Effective June 26, 2014

(All Rates Per Hour)

Engineer (Principal)	$233.00
Senior Engineer	$216.00
Engineer (P.E.)	$161.00
Project Manager	$216.00
Engineer in Training (EIT)	$133.00
Graduate Engineer	$128.00
Senior Technician	$128.00
GIS Technician	$105.00
Design Technician	$105.00
CADD Technician/ Draftsman	$100.00
Survey Technician/ Draftsman	$100.00
Registered Surveyor	$134.00
Surveyor in Training (SIT)	$105.00
1 Man Survey	$145.00
2 Man Survey Party	$160.00
3 Man Survey Party	$175.00
Field Inspector	$ 90.00
Clerical	$ 72.00
Student Technician	$ 33.00

Mileage Current IRS Rate

Note: Expert Witness Fees are billed at 1.5 times the hourly rate.

ADDRESS 1978 S. AUSTIN AVENUE | GEORGETOWN, TX 78626 | PHONE 512.930.9412 | FAX 512.930.9416 | WEB STEGERBIZZELL.COM

TEXAS REGISTERED ENGINEERING FIRM F-181 | SERVICES >> ENGINEERS >> PLANNERS >> SURVEYORS

RECEIVED
OCT 09 2017
BY: PST

WORK AUTHORIZATION NO. 2

WILLIAMSON COUNTY ROAD BOND PROJECT:
SEWARD JUNCTION SOUTHEAST

This Work Authorization No. 2 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated September 25, 2014 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Aguirre-Fields, LP (the "Engineer").

Part 1. The County will provide the following Services set forth in Attachment "A" of this Work Authorization.

Part 2. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 3. The maximum amount payable for services under this Work Authorization without modification is $51,599.00.

Part 4. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 5. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on March 31, 2019. The Engineering Services set forth in Attachment "C" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 6. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 7. This Work Authorization is hereby accepted and acknowledged below.

IN WITNESS WHERE OF, the County and the Engineer have executed this Work Authorization, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER: Aguirre, LLC – General Partner

By: _____
Signature

Oscar R. Aguirre, P.E.
Printed Name

President
Title

10/02/2017
Date

COUNTY:

By: _____
Signature

_____
Printed Name

_____
Title

_____
Date

OK
M 10/11/17

LIST OF ATTACHMENTS

Attachment A, Services to be provided by the County

Attachment B, Services to be provided by Engineer

Attachment C, Work Schedule

Attachment D, Fee Schedule

ATTACHMENT A to WA#2
SERVICES TO BE PROVIDED BY THE COUNTY

I. **GENERAL REQUIREMENTS**

The County will prepare or provide:

A. Name, address and phone number of the County's project manager.

B. Review of recommendations offered by the Engineer and approve or reject any or all work performed under this contract.

C. Review of progress of work and final acceptance of all documents.

D. Processing of all periodic payment requests submitted by the Engineer.

E. Submit of documentation to regulatory agencies for review and comment when specified.

F. Assistance in the coordination and scheduling of site visits.

II. **SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES, AND PUBLIC INVOLVEMENT**

The County will:

A. Any Environmental Assessment, documentation or previously completed documentation.

B. Lead and assist the Engineer with Right of entry from public or private land owners to allow surveying, environmental, engineering, or geotechnical services to be performed. Right of entry permission shall be written and signed by the land owner. Letters or other materials seeking right of entry shall contain explicit reference to the kinds of activities for which right of entry is requested and an indication of the impacts (if any) that will result from performance of environmental services.

C. Lead all coordination and public information associated with the public or private land owners/developers.

III. **UTILITY ENGINEERING INVESTIGATION (CURRENTLY SUBSURFACE UTILITY ENGINEERING)**

The County will prepare or provide:

A. Available existing right of way plans for the proposed project location.

B. All ROW appraisals and acquisitions, if applicable.

C. All coordination and meetings with utility companies for any necessary relocation.

D. All plans for future developments and/or associated easements in the project area.

IV. **DESIGN SURVEYS AND CONSTRUCTION SURVEYS**

The County will prepare or provide:

A. Any construction surveys required.

V. **SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION (PERMANENT)**

The County will prepare or provide:

A. Available traffic counts, traffic projections and accident data, if applicable.

VI. **PROJECT MANAGEMENT AND ADMINISTRATION**

The County will:

A. Review, approve and update Project Design Criteria.

B. Review deliverables and provide consolidated review comments to be addressed by the Engineer.

VII. **ADDITIONAL RESPONSIBILITIES**

The County will prepare or provide:

A. Interface with local, regional, State and Federal agencies or other entities on behalf of Engineer.

B. Timely reviews and decisions to enable the Engineer to maintain the project schedule as approved by the County.

ATTACHMENT B to WA#2
SERVICES TO BE PROVIDED BY THE ENGINEER
CONSTRUCTION PHASE SERVICES FOR
SEWARD JUNCTION SOUTHEAST

PROJECT DESCRIPTION

Existing Facility

The 1.057 mile project limits are from US 183 east along CR 259 and from south of the CR 259 and CR 266 intersection north to SH 29. The existing county roads consist or 2-11 foot lanes without shoulders.

Proposed Facility

The proposed design is to construct 2 lanes of a future six lane divided minor arterial roadway. The construction activities consist of; HMAC pavement, concrete curb and gutter, drainage structures, water quality BMPs, bridges, signing and pavement markings. Additionally proposed ROW and drainage easements will be acquired.

1. CONSTRUCTION PHASE SERVICES (FC 309)
   a. REQUESTS FOR INFORMATION - RFIs (20 RFIs maximum):
      - Attend up to 4 site visits and/or meetings to gather data and information for RFI responses (6 hours each). Documentation of the meetings will be included as time towards RFIs.
      - Respond to Contractor RFIs and provide design clarifications, additional information, and additional data to the GEC as required (1 hours each).

   b. REVIEW CONTRACTOR SUBMITTALS & SHOP DRAWINGS (20 sheets maximum):
      - Review Contractor submittals and shop drawings received from the GEC. Shop drawings will be reviewed for general conformance with the plans and specifications and will include providing stamped concurrence, exceptions or resubmittal notations to the Contractor. Since the structures on this job are cast in place, the assumption is made that there will be no more than 10 sheets per bridge associated with forms or erection shoring for review (46 hours maximum).

   c. PLAN REVISIONS (20 sheets maximum):
      - Engineer will provide minor revisions to plans in order to address differing site conditions, third party accommodation, or other owner directed changes. Revisions to plans will include revision clouds around any changes, will include descriptions and quantities of changes, CAD files, and will be sealed by a

professional engineer. Minor plans revisions will not exceed the number of sheets (20) or the associated time (80 hours) whichever is consumed first.

d. ATTEND MEETINGS (4 meetings):
   - Engineer will attend up to 4 meetings at the project site or Williamson County representative office, as requested (6 hours each).

e. WATER QUALITY BMP CERTIFICATION: (16 hours for 2 trips)
   - Engineer will visit the project site and review the construction work related to adherence to the permanent water quality design plans. Provide a list of issues to be corrected to the GEC, if necessary.
   - Visual inspection will includes spot checking the following items: filter strip slopes (ditch front slopes), filter strip length (flowline offsets roughly speaking), grading, and establishment of vegetation. The Engineer will develop a punch list of items that appeared in need of attention, then return to finalize with the contractor after completion.
   - Once above is verified as correct, the Engineer will prepare and submit to TCEQ a letter certifying that the permanent BMPs were constructed as designed.

f. PEC Pond Construction Phase Services – FC 309: This phase of the project will commence after approval of final plans for construction. The basic services for this phase include:
   - Attend Pre-Construction Conference
   - Review submittals, prepare change orders, and prepare RFI's as necessary
   - Site visits as requested (4 max)

2. <u>DELIVERABLES</u>

a. All contract documents, including hard copies and electronic files, shall be turned over to the County at each milestone and at the completion of the project. Documents shall be posted to the County's project management database as requested.

3. PROJECT MANAGEMENT:
   a. The Engineer will provide for project documentation, progress reports, invoices and coordination with the GEC.
   b. The Engineer will provide for project documentation, progress reports, invoices and coordination with sub consultants.

ATTACHMENT C
WORK SCHEDULE

SEWARD JUNCTION SOUTHEAST
WA#2

Act ID	Description	Rem Dur	Early Start	Early Finish	Total Float	%	Resource	Budgeted Cost
AA1010	BID PHASE SERVICES EXTENSION [WA#1]	286	16FEB17	26MAR18	0	0		0.00
AA1020	CONSTRUCTION PHASE SERVICES [WA#2]	258	27MAR18	26MAR19	0	0		0.00

Start date	16FEB17
Finish date	26MAR19
Data date	16FEB17
Run date	02OCT17
Page number	1A

Early bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

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AGUIRRE & FIELDS, LP

WILLIAMSON COUNTY, TEXAS
PRECINCT 2
SEWARD JUNCTION SOUTHEAST

WORK AUTHORIZATION NO. 2

I: 26901-1 > CONTRACT > SCHEDULE > ATTACHMENT C WA2

FEE SCHEDULE SUMMARY

Project	AFLP	CP&Y	STEGER BIZZELL	Total
WA 1	$37,348.00	$8,371.00	$5,880.00	$51,599.00

FC	TASK NAME	AFLP	CP&Y	S&B	TOTAL
FC 110	ROUTE AND DESIGN STUDIES (FC110)				$0.00
FC 120	ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT (FC 120)				$0.00
FC 130	RIGHT OF WAY DATA & UTILITIES (FC 130)				$0.00
FC 150	FIELD SURVEYING (FC 150)				$0.00
FC 160	ROADWAY DESIGN CONTROLS (FC 160)				$0.00
FC 161	DRAINAGE (FC 161)		$8,371.00		$8,371.00
FC 162	SIGNING, PVMT. MARK., & SIGNALS (FC162)				$0.00
FC 163	MISCELLANEOUS (ROADWAY) (FC 163)				$0.00
FC 164	MANAGING CONTRACTED PER SERVICES & SURVEY CONTRACTS (FC 164)	$11,040.00			$11,040.00
FC 170	BRIDGE DESIGN (FC 170)				$0.00
FC 309	CONSTRUCTION PHASE SERVICES (FC 309)	$25,902.00		$5,880.00	$25,902.00
DIRECT	DIRECT EXPENSES	$406.00			$406.00
	TOTALS	$37,348.00	$8,371.00	$5,880.00	$51,599.00

TASK DESCRIPTION	SENIOR PROJECT MANAGER	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	STRUCT ENGINEER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS	NO OF DWGS	LABOR HRS PER SHEET
BID PHASE SERVICES (FC 309)														
A. RFI RESEARCH AND SITE VISITS - 4 EA		6			6	6	6					24	N/A	N/A
A. REQUESTS FOR INFORMATION (RFI) - 20EA		2	2	1	1	2	4	2	2	4		20	N/A	N/A
B. REVIEW CONTRACTOR SUBMITTALS & SHOP DRAWINGS - 20 SHEETS		8	2		12	12	12					46	20	2
C. PLAN REVISIONS FOR FIELD CHANGES - 20 SHEETS		6	4		8	12	20	8	10	14		80	20	4
D. ATTEND MEETINGS - 4 EA AT PROJECT SITE OR WILCO GEC		6			6	6	6					24	N/A	N/A
E. COORDINATION FOR WATER QUALITY BMP CERTIFICATION		4				4						8	N/A	N/A
HOURS SUB-TOTALS	0	32	8	1	31	42	48	10	12	18	0	202		
CONTRACT RATE PER HOUR	$201.00	$168.00	$150.00	$150.00	$168.00	$132.00	$102.00	$126.00	$84.00	$66.00	$72.00			
TOTAL LABOR COSTS	$0.00	$5,376.00	$1,272.00	$150.00	$5,208.00	$5,544.00	$4,896.00	$1,260.00	$1,008.00	$1,188.00	$0.00	$25,902.00		
% DISTRIBUTION OF STAFFING	0.0%	15.8%	4.0%	0.5%	15.3%	20.8%	23.8%	5.0%	5.9%	8.9%	0.0%			
SUBTOTAL (FC 309)												$25,902.00		

SUMMARY	SENIOR PROJECT MANAGER	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	STRUCT ENGINEER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN / CLERICAL	TOTAL HOURS BY FC	TOTAL COSTS BY FC
% UTILIZATION	0.0%	27.0%	2.0%	0.2%	7.7%	29.4%	11.9%	2.5%	3.0%	4.5%	11.9%		
MANAGING CONTRACTED PER SERVICES & SURVEY CONTRACTS (FC 164)												84	$11,040.00
CONSTRUCTION PHASE SERVICES (FC 309)												202	$25,902.00
SUBTOTAL LABOR EXPENSES												286	$36,942.00
OTHER DIRECT EXPENSES	**# OF UNITS**	**COST/UNIT**											
Mileage (# of miles) (current state rate)	180	0.56	MILE										$101.00
Per diem	4	30	DAY										$120.00
Overnight Mail (letter size) (each)	2	15	EACH										$30.00
Overnight Mail (oversized box) (each)	2	25	EACH										$50.00
PHOTOCOPIES (11"X17")	700	0.15	EACH										$105.00
SUBTOTAL DIRECT EXPENSES													$406.00

TOTALS	
TOTAL COSTS FOR PRIME ONLY	$36,942.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY	$406.00
AFLP TOTAL	**$37,348.00**

Exhibit D

Seward Junction Southeast
US 183 / CR 259 to SH 29 / CR 266
Williamson County

Fee Schedule/Budget for CP&Y, Inc.

	Task Description	No. of Sheets	Project Manager	Senior Engineer	Project Engineer	Design Engineer	E.I.T.	Senior CADD Operator	Chief Hydrologist	Environ Manager	Senior Environ Specialist	Environ Specialist	GIS Specialist	Admin / Clerical	Total Labor Hours	Total Direct Labor Costs
			$214.00	$177.00	$145.00	$119.00	$92.00	$108.00	$184.00	$158.00	$116.00	$92.00	$84.00	$70.00		
	FC 309 - CONSTRUCTION PHASE SERVICES FOR FC 161 DRAINAGE															
164.1	**PROJECT MANAGEMENT (12 MONTHS)**															
	1A Request for Information 5 RFIs at 2 hrs each	N/A	-	-	2	10	-	-	-	-	-	-	-	-	12	$ 1,480.00
	1B Review Contractor Submittals & Shop drawings	N/A	1	1	2	10	-	-	-	-	-	-	-	-	14	$ 1,871.00
	1C Plan Revisions and Field Changes	N/A	-	-	4	8	-	-	-	-	-	-	-	-	12	$ 1,532.00
	1D Attend Meetings	N/A	-	-	6	6	-	-	-	-	-	-	-	-	12	$ 1,584.00
	1E SMP Inspection (1 visit to verify construction BMPs, incl. documentation & coordination)	N/A	-	-	-	16	-	-	-	-	-	-	-	-	16	$ 1,904.00
	FC 164 - SUBTOTALS														66	$ 8,371.00
	HOURS SUBTOTALS		1	1	14	50	0	0	0	0	0	0	0	0	66	
	LABOR COST SUBTOTALS		$ 214.00	$ 177.00	$ 2,030.00	$ 5,950.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,371.00

SUBTOTAL LABOR COSTS $ 8,371.00

PEC Pond - Estimated Fee Schedule

Task and Description		Engineer (Principal)	Senior Engineer	Engineer (PE)	Registered Surveyor	Engineer in Training	Senior Technician	Clerical	2-Man Survey	Total Estimate
	Hourly Rate:	233	216	161	134	133	128	72	160	
Construction Phase Services (FC 309)										
a. Attend Pre-Construction Conference				4		4				1,176
b. Prepare change orders and RFI's as necessary				8		8				2,352
c. Site Visits (4 max)				8		8				2,352
	Subtotal Hours:	0	0	20	0	20	0	0	0	40
	Subtotal Fees:	$0	$0	$3,220	$0	$2,660	$0	$0	$0	$5,880
	TOTAL FEES:	$0	$0	$3,220	$0	$2,660	$0	$0	$0	$5,880

RECEIVED
OCT 09 2017
BY: PSI

SUPPLEMENTAL WORK AUTHORIZATION NO. 4
TO
WORK AUTHORIZATION NO. 1

WILLIAMSON COUNTY ROAD BOND PROJECT:
SEWARD JUNCTION SOUTHEAST

This Supplemental Work Authorization No. 4 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated September 25, 2014 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Aguirre-Fields, LP (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective September 26, 2014 (the "Work Authorization");

WHEREAS, pursuant to Article 14 of the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

I. The Services to be provided by the County that were set out in the original Attachment "A" of the Work Authorization.

II. The Services to be Provided by the Engineer that were set out in the original Attachment "B" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "B-4"

III. The Work Authorization shall become effective August 05, 2017 and shall terminate on March 31, 2018. The Services to be provided by the Engineer shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C-4"

IV. The maximum amount payable for services under the Work Authorization is hereby increased from $714,999.00 to $842,885.00. The revised Fee Schedule is attached hereto as Attachment "D-4".

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

This Supplemental Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

IN WITNESS WHEREOF, the County and the Engineer have executed this Supplemental Work Authorization, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER: Aguirre, LLC - General Partner	**COUNTY:**
By: _____	By: _____
Signature	Signature
Oscar R. Aguirre, P.E.	_____
Printed Name	Printed Name
President	_____
Title	Title
10/02/2017	_____
Date	Date

ok
m 11/11/17

LIST OF ATTACHMENTS

Attachment B-4, Services to be Provided by Engineer

Attachment C-4, Work Schedule

Attachment D-4, Fee Schedule

ATTACHMENT B-4
SERVICES TO BE PROVIDED BY THE ENGINEER
DESIGN SERVICES FOR
SEWARD JUNCTION SOUTHEAST

PROJECT DESCRIPTION

Existing Facility

The 1.057 mile project limits are from US 183 east along CR 259 and from south of the CR 259 and CR 266 intersection north to SH 29. The existing county roads consist or 2-11 foot lanes without shoulders.

Proposed Facility

The proposed design is to construct 2 lanes of a future six lane divided minor arterial roadway. The construction activities consist of; HMAC pavement, concrete curb and gutter, drainage structures, water quality BMPs, bridges, signing and pavement markings. Additionally proposed ROW and drainage easements will be acquired. Work excludes any geotechnical updates, archeological revisions, channel alignment and easement revisions, and roadway realignment. PEC pond plans will be prepared a separate PS&E package to the Seward Junction Southeast Plans.

1. DESIGN PHASE SERVICES

   a. PLAN REVISIONS FOR FIELD CHANGES – Aguirre-Fields FC 160.5 (54 sheets) and CP&Y FC 161 (15 sheets):

      - Engineer will provide minor revisions to plans in order to address changes requested by landowners' during ROW acquisition process since final plans were submitted. Design Services for plan revisions will include:

         1. Revise plans to add 4 new driveways along the north side of proposed CR 259 between STA 181+00 and STA 191+00.

         2. Revise plans to leave a segment of the existing CR 259 in place and add a driveway for property access along the north side of CR 250 in the vicinity of STA 210+00.

         3. Plan revisions for items 1 & 2 will include updates to index (1), project layouts (1), survey data sheets (3), roadway quantity sheets (2), driveway summary sheet (1), removal summary (1), drainage summary (1), pavement marking summary (1), erosion control summary (1), earthwork summary (1), traffic control plan phase sheets (10), plan and profile sheets (4), intersection layout (1), new driveway plan

and profile sheet (3), drainage area map (1), internal drainage area maps (4), drainage plan and profiles (4), ditch tables (1), hydraulic data sheet (1), signing and pavement marking plan (4), erosion control layouts (4), design cross sections (4), and drainage report revisions.

4. Revise current estimate pricing to reflect market changes since last final plans submittal.

5. Revisions for items 2, 3, & 4 exclude changes to proposed or existing ROW and easements, bridge structures, driveway details, typical sections, channel alignments, proposed alignment, proposed profile, general notes, bid items/descriptive codes, specifications, and cross slopes.

b. PEC POND DESIGN FOR CR 259 – Steger Bizzell FC 161, FC 150, & FC 309 (separate Package):
   - Steger Bizzell ("Engineer" or "Surveyor") shall provide surveying, design, construction plan preparation, and permitting services for the reconfiguration of an existing water quality and detention pond located in eastern Liberty Hill, Texas.
     1. The pond is located on a tract of land that is owned by Pedernales Electric Cooperative, Inc. ("PEC") as evidenced by Document # 2003039417 of the Official Records of Williamson County, and is also referred to as Lot 3 of Seward Junction Commercial Park Subdivision of the Plat Records of Williamson County. The tract is entirely within the city limits of Liberty Hill and entirely within the Edwards Aquifer Contributing Zone. The existing Contributing Zone Plan is Permit # 11-08030503, filed on or about March 2008.

     2. Surveying Services – FC 150: This phase of the project will commence after the Client has signed and executed this contract. The basic services for this phase include:

        a. Obtain right–of–entry authorization from PEC
        b. Conduct pre-field operations (Texas811, OneCall)
        c. Perform topographic field surveying
        d. Office-process, draft, DTM

e. Perform internal QA/QC

3. Design Phase Services – FC 161: One draft and one final plan submittal is included in this scope of work. The basic services for this phase include:

    a. Obtain and review related project data, reports and studies such as the original Contributing Zone Plan and latest revision of the CR 259 roadway improvements PS&E.
    b. Prepare construction drawings and specifications for the reconfiguration of the pond in accordance with the latest Texas Commission on Environmental Quality ("TECQ") technical guidance manual and generally accepted engineering practices.
    c. Analyze roadway improvement plans and coordinate minor adjustments to the pond and/or roadway design.
    d. Prepare project quantities and a probable cost of construction for the pond reconfiguration.
    e. Submit plans for review. Modify plans based on comments received.
    f. Submit plans and Stormwater Permit to City of Liberty Hill staff for review. The submittal fee shall be paid directly by Client. Modify plans based on comments received.
    g. Prepare and submit a Contributing Zone Plan Modification to TCEQ. The TCEQ submittal fee is estimated at $5000.00. This scope of work assumes that a new Geologic Assessment will not be required by TCEQ.

4. Bid Phase Services – FC 309: This phase of the project will commence after approval of final plans for construction. The basic services for this phase include:
    a. Respond to Bidder questions as necessary

5. Exclusions: The following services are specifically excluded from this scope of work:

    a. Utility relocation design
    b. Surveying of subsurface utilities, except where uncovered by others
    c. Parking lot design
    d. Geotechnical investigation
    e. Geologic Assessment
    f. Contract Document / Project Manual preparation
    g. Construction Inspection
    h. Boundary survey or property owner determination
    i. Right-of-way or easement acquisition, including preparation of field notes and legal descriptions
    j. Work in any area outside of the Project Limits
    k. Construction Phase services

c. POND EASEMENT FIELD NOTES – BOWMAN FC 150:

- Bowman will revise existing field notes or prepare new field notes to provide legal descriptions for the vacation of the old pond and storm sewer easements and dedication of a new pond and storm sewer easement on the BLW tract. This task is limited to four (4) total sets of field notes.

d. ENVIRONMENTAL SERVICES – CP&Y FC 120:

- The Engineer shall perform environmental services required to obtain environmental clearance for the proposed Channel E and F associated with the Seward Junction Southeast Project. This scope of work is a supplement to work previously performed for Williamson County's (County) proposed improvements to Seward Junction between US Highway (US) 183 and State Highway (SH) 29 east of Liberty Hill, Williamson County, Texas.

1. FC 120.1. WATERS OF THE U.S.
   Task 1 – TxRAM Functional Assessment
    a. Conduct a baseline aquatic resource analysis documenting existing conditions with the Texas Rapid Assessment Method (TxRAM), which is a wetland and stream conditional assessment model.

This shall include preparation of TxRAM Stream Data Sheets, Scoring Sheets, associated exhibits, and the Aquatic Resource Compensation Calculator. Should wetland areas be encountered, TxRAM Wetland Data Sheets, Wetland Scoring Sheets, associated exhibits, and Wetland Final Scoring Sheet for Evaluating Proposed Mitigation/Impact Activities Sheet would be completed. The output from TxRAM will be used to calculate adverse impacts and compensatory mitigation required by USACE.

Task 2 - USACE Pre-Construction Notification

b. Pre-Application Meeting – the Engineer shall attend one (1) pre-application meeting with the USACE to discuss the project impacts, avoidance/minimization measures, permitting requirements, and potential mitigation options, if required.
c. PCN Preparation - the Engineer shall prepare and submit a PCN to the USACE in accordance with NWP General Condition 32. The USACE Fort Worth District application submittal form for NWP #14 will be utilized for this task. The submittal will include the results of the threatened/endangered species assessment, cultural resource assessment, waters of the U.S. assessment, plan and section view drawings and TCEQ Section 401 Water Quality Certification. This task also includes responding to USACE comments and requests for additional information.
d. Note: If it is determined that a Section 404 Individual Permit or detailed permittee-responsible mitigation planning is required, those services would be conducted under a supplemental agreement.

e. DELIVERABLES

- All contract documents, including hard copies and electronic files, shall be turned over to the County. Documents shall be posted to the County's project management database as requested.
- PS&E Package updates as outline in Section a. above
- Topographic Field Exhibit for PEC Pond
- PS&E Package for PEC Pond
- Contributing Zone Plan Modification Application for PEC Pond
- BLW Tract Pond and Strom Sewer Easement Notes
- PCN for Channels E&F as outlined above

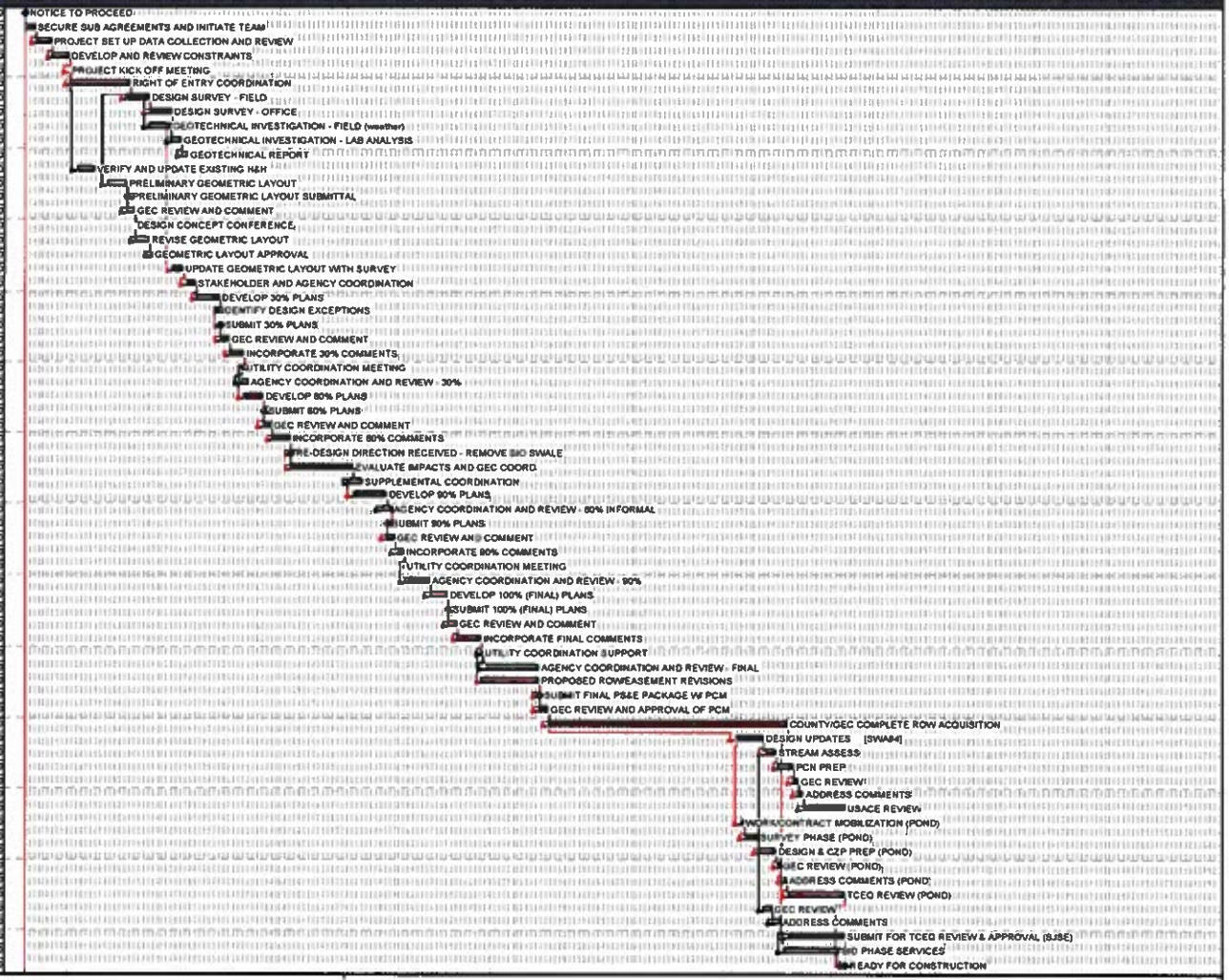
f. PROJECT MANAGEMENT – FC 164

- The Engineer will attend up to 2 review and/or coordination meetings with the GEC. (Aguirre-Fields), (CP&Y FC 166 – includes attending 1 meeting)
- Engineer will attend up to 2 meetings at the project site or Williamson County representative office, as requested.
- The Engineer will provide for project documentation, progress reports, invoices and GEC / County / Sub-consultant coordination. (Aguirre-Fields assume 5 hours per month for 7 months)
- The Engineer will provide for sub-consultant coordination management and review coordination with GEC. (Aguirre-Fields assume 32 hours for review coordination)

ATTACHMENT C-4
WORK SCHEDULE

SEWARD JUNCTION SOUTHEAST
SWA84 to WA81

Act ID	Description	Rem Dur	Early Start	Early Finish	Total Float	%	Resource	Budgeted Cost
AA1010	NOTICE TO PROCEED	0	01DEC14		0			0.00
AA1015	SECURE SUB AGREEMENTS AND INITIATE TEAM	14	01DEC14	18DEC14	0			0.00
AA1020	PROJECT SET UP DATA COLLECTION AND REVIEW	14	19DEC14	08JAN15	0			0.00
AA1030	DEVELOP AND REVIEW CONSTRAINTS	18	12JAN15	04FEB15	0			0.00
AA1040	PROJECT KICK OFF MEETING	1	05FEB15	05FEB15	0			0.00
AA1050	RIGHT OF ENTRY COORDINATION	64	06FEB15	06MAY15	0			0.00
AA1060	DESIGN SURVEY - FIELD	34	30APR15	02JUN15	0			0.00
AA1070	DESIGN SURVEY - OFFICE	34	03JUN15	06JUL15	0			0.00
AA1080	GEOTECHNICAL INVESTIGATION - FIELD (weather)	34	02JUN15	03JUL15	66d			0.00
AA1090	GEOTECHNICAL INVESTIGATION - LAB ANALYSIS	10	06JUL15	21JUL15	66d			0.00
AA1100	GEOTECHNICAL REPORT	7	22JUL15	30JUL15	66d			0.00
AA1110	VERIFY AND UPDATE EXISTING H&H	20	17FEB15	16MAR15	72d			0.00
AA1120	PRELIMINARY GEOMETRIC LAYOUT	20	03APR15	30APR15	72d			0.00
AA1130	PRELIMINARY GEOMETRIC LAYOUT SUBMITTAL	0		20APR15	72d			0.00
AA1140	GEC REVIEW AND COMMENT	10	01MAY15	14MAY15	72d			0.00
AA1150	DESIGN CONCEPT CONFERENCE	1	14MAY15	14MAY15	72d			0.00
AA1160	REVISE GEOMETRIC LAYOUT	15	15MAY15	04JUN15	72d			0.00
AA1170	GEOMETRIC LAYOUT APPROVAL	0	05JUN15		72d			0.00
AA1175	UPDATE GEOMETRIC LAYOUT WITH SURVEY	14	07JUL15	24JUL15	0			0.00
AA1180	STAKEHOLDER AND AGENCY COORDINATION	12	27JUL15	11AUG15	0			0.00
AA1190	DEVELOP 30% PLANS	22	12AUG15	15SEP15	0			0.00
AA1200	IDENTIFY DESIGN EXCEPTIONS	5	09SEP15	15SEP15	65d			0.00
AA1210	SUBMIT 30% PLANS	0		15SEP15	0			0.00
AA1220	GEC REVIEW AND COMMENT	10	16SEP15	29SEP15	0			0.00
AA1230	INCORPORATE 30% COMMENTS	15	30SEP15	20OCT15	0			0.00
AA1240	UTILITY COORDINATION MEETING	3	16OCT15	20OCT15	42d			0.00
AA1250	AGENCY COORDINATION AND REVIEW - 30%	10	16OCT15	29OCT15	42d			0.00
AA1260	DEVELOP 60% PLANS	20	21OCT15	17NOV15	0			0.00
AA1270	SUBMIT 60% PLANS	0		17NOV15	0			0.00
AA1280	GEC REVIEW AND COMMENT	10	18NOV15	01DEC15	0			0.00
AA1290	INCORPORATE 60% COMMENTS	10	02DEC15	28DEC15	0			0.00
AA1292	RE-DESIGN DIRECTION RECEIVED - REMOVE BIO	0	28DEC15		0			0.00
AA1294	EVALUATE IMPACTS AND GEC COORD	60	28DEC15	29MAR16	0			0.00
AA1298	SUPPLEMENTAL COORDINATION	15	23MAR16	12APR16	30d			0.00
AA1320	DEVELOP 90% PLANS	30	30MAR16	17MAY16	0			0.00
AA1325	AGENCY COORDINATION AND REVIEW - 60%	15	11MAY16	26MAY16	47d			0.00
AA1330	SUBMIT 90% PLANS	0		17MAY16	0			0.00
AA1340	GEC REVIEW AND COMMENT	10	18MAY16	31MAY16	0			0.00
AA1350	INCORPORATE 90% COMMENTS	10	01JUN16	14JUN16	0			0.00
AA1360	UTILITY COORDINATION MEETING	1	13JUN16	14JUN16	46d			0.00
AA1370	AGENCY COORDINATION AND REVIEW - 90%	25	15JUN16	20JUL16	0			0.00
AA1380	DEVELOP 100% (FINAL) PLANS	20	21JUL16	17AUG16	0			0.00
AA1400	SUBMIT 100% (FINAL) PLANS	0		17AUG16	0			0.00
AA1410	GEC REVIEW AND COMMENT	10	18AUG16	31AUG16	0			0.00
AA1420	INCORPORATE FINAL COMMENTS	25	01SEP16	05OCT16	0			0.00
AA1430	UTILITY COORDINATION SUPPORT	5	06OCT16	12OCT16	31d			0.00
AA1440	AGENCY COORDINATION AND REVIEW - FINAL	60	13OCT16	30DEC16	31d			0.00
AA1460	PROPOSED ROW/EASEMENT REVISIONS	60	06OCT16	28DEC16	0			0.00
AA1470	SUBMIT FINAL PS&E PACKAGE W/ PCM	0		28DEC16	0			0.00
AA1480	GEC REVIEW AND APPROVAL OF PCM	10	29DEC16	11JAN17	0			0.00
AA1485	COUNTY/GEC COMPLETE ROW ACQUISITION	251	12JAN17	31DEC17	0			0.00
AA1500	DESIGN UPDATES [SWA84]	30	18OCT17 *	24NOV17	0			0.00
AA1502	STREAM ASSESS	15	27NOV17	15DEC17	0			0.00
AA1503	PCN PREP	15	18DEC17	08JAN18	0			0.00
AA1504	GEC REVIEW	5	09JAN18	15JAN18	0			0.00
AA1505	ADDRESS COMMENTS	5	16JAN18	22JAN18	0			0.00
AA1508	USACE REVIEW	45	23JAN18	28MAR18	0			0.00
AA1510	WORK/CONTRACT MOBILIZATION (POND)	5	23OCT17	27OCT17	0			0.00
AA1520	SURVEY PHASE (POND)	15	30OCT17	17NOV17	0			0.00
AA1530	DESIGN & CZP PREP (POND)	25	20NOV17	15DEC17	0			0.00
AA1535	GEC REVIEW (POND)	5	18DEC17	22DEC17	0			0.00
AA1536	ADDRESS COMMENTS (POND)	5	26DEC17	31DEC17	0			0.00
AA1540	TCEQ REVIEW (POND)	60	02JAN18	26MAR18	0			0.00
AA1550	GEC REVIEW	10	27NOV17	08DEC17	5d			0.00
AA1560	ADDRESS COMMENTS	10	11DEC17	22DEC17	5d			0.00
AA1700	SUBMIT FOR TCEQ REVIEW & APPROVAL (SJSE)	60	02JAN18	26MAR18	0			0.00
AA1720	BID PHASE SERVICES	60	26DEC17	19MAR18	5d			0.00
AA1730	READY FOR CONSTRUCTION	0		26MAR18	0			0.00



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AGUIRRE & FIELDS, LP

WILLIAMSON COUNTY, TEXAS
PRECINCT 2
SEWARD JUNCTION SOUTHEAST

SUPPLEMENTAL WORK AUTHORIZATION 4
to WORK AUTHORIZATION NO. 1

c:\26001-1 > CONTRACT > SCHEDULE > ATTACHMENT C4 WA1

FEE SCHEDULE SUMMARY

Project	AFLP	CP&Y	S&B	BOWMAN	Total
WA 1	$36,243.00	$26,493.00	$57,470.00	$7,680.00	$127,886.00

FC	TASK NAME	AFLP	CP&Y	S&B	BCE	TOTAL
FC 110	ROUTE AND DESIGN STUDIES (FC110)					$0.00
FC 120	ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT (FC 120)		$13,892.00			$13,892.00
FC 130	RIGHT OF WAY DATA & UTILITIES (FC 130)					$0.00
FC 150	FIELD SURVEYING (FC 150)			$3,096.00	$7,680.00	$10,776.00
FC 160	ROADWAY DESIGN CONTROLS (FC 160)	$16,959.00				$16,959.00
FC 161	DRAINAGE (FC 161)		$11,325.00	$52,022.00		$63,347.00
FC 162	SIGNING, PVMT. MARK., & SIGNALS (FC162)					$0.00
FC 163	MISCELLANEOUS (ROADWAY) (FC 163)					$0.00
FC 164	MANAGING CONTRACTED PER SERVICES & SURVEY CONTRACTS (FC 164)	$18,624.00	$368.00			$18,992.00
FC 170	BRIDGE DESIGN (FC 170)					$0.00
FC 309	CONSTRUCTION PHASE SERVICES (FC 309)			$2,352.00		$2,352.00
DIRECT	DIRECT EXPENSES	$660.00	$908.00			$1,568.00
	TOTAL	$36,243.00	$26,493.00	$57,470.00	$7,680.00	$127,886.00

TASK DESCRIPTION	SENIOR PROJECT MANAGER	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	STRUCT ENGINEER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN CONTROLS (FC160)														
160.5. PLAN PREPARATION:														
1. Revise plans to add 4 new driveways along the north side of proposed CR 259 between STA 181+00 and STA 191+00 2. Revise plans to leave a segment of the existing CR 259 in place and add a driveway for property access along the north side of CR 259 in the vicinity of STA 210+00. 3. Plan revisions for items 2 & 3 will include updates to index (1), project layouts (1), survey data sheets (3), roadway quantity sheets (2), driveway summary sheet (1), removal summary (1), drainage summary (1), pavement marking summary (1), erosion control summary (1), earthwork summary (1), traffic control plan phase sheets (10), plan and profile sheets (4), intersection layout (1), new driveway plan and profile sheet (3), drainage area map (1), internal drainage area maps (4), drainage plan and profiles (4), ditch tables (1), hydraulic data sheet (1), signing and pavement marking plan (4), erosion control layouts (4), design cross sections (4), and drainage report revisions. (54 total)		8	8			20	40	12	24	48		160	40	4.00
REVISE CURRENT ESTIMATE PRICING TO REFLECT MARKET CHANGES		1	1			2	2			2		8	3	3
HOURS SUB-TOTALS	0	9	9	0	0	22	42	12	24	50	0	168	43	
CONTRACT RATE PER HOUR	$201.00	$168.00	$159.00	$150.00	$168.00	$132.00	$102.00	$126.00	$84.00	$66.00	$72.00			
TOTAL LABOR COSTS	$0.00	$1,512.00	$1,431.00	$0.00	$0.00	$2,904.00	$4,284.00	$1,512.00	$2,016.00	$3,300.00	$0.00	$16,959.00		
% DISTRIBUTION OF STAFFING	0.0%	5.4%	5.4%	0.0%	0.0%	13.1%	25.0%	7.1%	14.3%	29.8%	0.0%			
SUBTOTAL (FC 160)												$16,959.00		

TASK DESCRIPTION	SENIOR PROJECT MANAGER	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	STRUCT ENGINEER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS	NO OF DWGS	LABOR HRS PER SHEET
MANAGING CONTRACT PER SERVICES & SURVEY CONTRACTS (FC 164)														
DESIGN COORDINATION AND UPDATES MEETINGS (2 EACH@8HR)		16				16						32	N/A	N/A
ATTEND UP TO 2 COORDINATION MEETING WITH COMMISSIONER AND GEC		16				16						32	N/A	N/A
PROJECT DOCUMENTATION, REPORTS, INVOICING, & GEC COORDINATION (5 HRS/M FOR 7 MONTHS)		17				18						35		
SUB CONSULTANT MANAGEMENT AND REVIEW COORDINATION WITH GEC		8				8	8				8	32		
HOURS SUB-TOTALS	0	57	0	0	0	58	8	0	0	0	8	131		
CONTRACT RATE PER HOUR	$201.00	$168.00	$159.00	$150.00	$168.00	$132.00	$102.00	$126.00	$84.00	$66.00	$72.00			
TOTAL LABOR COSTS	$0.00	$9,576.00	$0.00	$0.00	$0.00	$7,656.00	$816.00	$0.00	$0.00	$0.00	$576.00	$18,624.00		
% DISTRIBUTION OF STAFFING	0.0%	43.5%	0.0%	0.0%	0.0%	44.3%	6.1%	0.0%	0.0%	0.0%	6.1%			
SUBTOTAL (FC 164)												$18,624.00		

SUMMARY	SENIOR PROJECT MANAGER	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	STRUCT ENGINEER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN / CLERICAL	
% UTILIZATION	0.0%	48.9%	5.4%	0.0%	0.0%	57.4%	31.1%	7.1%	14.3%	29.8%	6.1%	299
FUNCTION CODE											TOTAL HOURS BY FC	TOTAL COSTS BY FC
ROADWAY DESIGN CONTROLS (FC 160)											168	$16,959.00
MANAGING CONTRACTED PER SERVICES & SURVEY CONTRACTS (FC 164)											131	$18,624.00
SUBTOTAL LABOR EXPENSES											299	$35,583.00
OTHER DIRECT EXPENSES	# OF UNITS	COST/UNIT										
MILEAGE (# OF MILES) (CURRENT STATE RATE) (2 ADDITIONAL MEETINGS)	100	0.56	MILE									$56.00
PER DIEM	0	30	DAY									$0.00
OVERNIGHT MAIL (LETTER SIZE) (EACH)	0	15	EACH									$0.00
OVERNIGHT MAIL (OVERSIZED BOX) (EACH)	0	25	EACH									$0.00
PHOTOCOPIES (11"X17") (4/SUBMITTAL X 291 SHEETS)	1,160	0.15	EACH									$174.00
ROLL PLOTTING	120	1.5	SF									$180.00
PROJECT CONSTRUCTION MANUAL (15 COPIES X 350 PAGES)	0	0.1	EACH									$0.00
SUB CONSULTANT PERMIT AND RECORD FEES	1	250	EACH									$250.00
SUBTOTAL DIRECT EXPENSES												$660.00

TOTALS	
TOTAL COSTS FOR PRIME ONLY	$35,583.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY	$660.00
AFLP TOTAL	$36,243.00

Seward Junction Southeast
US 183 / CR 259 to SH 29 / CR 266
Williamson County

Fee Schedule/Budget for CP&Y, Inc.

	Task Description	No. of Sheets	Project Manager	Senior Engineer	Project Engineer	Design Engineer	E.I.T.	Senior CADD Operator	Chief Hydrologist	Environ Manager	Senior Environ Specialist	Environ Specialist	GIS Specialist	Admin / Clerical	Total Labor Hours	Total Direct Labor Costs
			$214.00	$177.00	$145.00	$119.00	$92.00	$108.00	$184.00	$168.00	$116.00	$92.00	$84.00	$70.00		
	1 Design Phase Services (FC 161)															
a	Revise Plans															
	HYDROLOGIC ANALYSES (4 Driveway culverts)	N/A	1	1	-	2	8	-	-	-	-	-	-	-	12	$ 1,385.00
	CREATE EXTERIOR DRAINAGE AREA MAP	1	-	-	-	2	2	-	-	-	-	-	-	-	4	$ 422.00
	DITCH CAPACITIES AND TABLES	1	-	1	-	1	4	4	-	-	-	-	-	-	10	$ 1,096.00
	DRIVEWAY / MEDIAN X-OVER CULVERTS (4)	1	1	1	-	2	8	12	-	-	-	-	-	-	24	$ 2,681.00
	SUMMARY OF DRAINAGE QUANTITIES	1	-	-	-	-	2	2	-	-	-	-	-	-	4	$ 400.00
	MISCELLANEOUS DRAINAGE DETAILS	1	1	1	-	1	4	-	-	-	-	-	-	-	7	$ 878.00
	ASSEMBLE APPLICABLE STANDARDS	1	-	-	-	1	2	-	-	-	-	-	-	-	3	$ 303.00
1	SW3P PLANS AND SUMMARY	3	-	1	-	2	2	-	-	-	-	-	-	-	5	$ 599.00
b	WATER QUALITY AND BMP FEATURE DESIGN	N/A	-	-	-	1	2	-	-	-	-	-	-	-	3	$ 303.00
c	WATER QUALITY FEATURE LAYOUT SHEETS	N/A	-	1	1	1	1	4	-	-	-	-	-	-	8	$ 985.00
d	CONTRIBUTING ZONE PLAN AND COORDINATION	N/A	-	1	1	1	1	-	-	-	-	-	-	-	4	$ 533.00
	ASSEMBLE APPLICABLE STANDARDS	N/A	-	-	-	1	1	4	-	-	-	-	-	-	6	$ 643.00
b	Attend Meetings		1	1	2	4	-	-	-	-	-	-	-	-	8	$ 1,157.00
															56	$ 11,325.00
	FC 161 - SUBTOTALS															
	HOURS SUBTOTALS		4	8	4	19	37	26	0	0	0	0	0	0	96	
	LABOR COST SUBTOTALS		$ 856.00	$ 1,416.00	$ 580.00	$ 2,261.00	$ 3,404.00	$ 2,808.00	$ -	$ -	$ -	$ -	$ -	$ -		$ 11,325.00
	3 PROJECT MANAGEMENT (FC 164)															
a	PROGRESS REPORTS, DOCS, INVOICE, GEC COORD	N/A	-	-	-	-	4	-	-	-	-	-	-	-	4	$ 368.00
		N/A	-	-	-	-	-	-	-	-	-	-	-	-		$ -
		N/A	-	-	-	-	-	-	-	-	-	-	-	-		$ -
		N/A	-	-	-	-	-	-	-	-	-	-	-	-		$ -
		N/A	-	-	-	-	-	-	-	-	-	-	-	-		$ -
															4	$ 368.00
	FC 164 - SUBTOTALS															
	HOURS SUBTOTALS		0	0	0	0	4	0	0	0	0	0	0	0	4	
	LABOR COST SUBTOTALS		$ -	$ -	$ -	$ -	$ 368.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 368.00

SUBTOTAL LABOR COSTS	$ 11,693.00

Seward Junction Southeast
US 183 / CR 259 to SH 29 / CR 266
Williamson County

Fee Schedule/Budget for CP&Y, Inc.

	Task Description	No. of Sheets	Environ Manager	Senior Environ Specialist	Environ Specialist	GIS Specialist	Admin / Clerical	Total Labor Hours	Total Direct Labor Costs
			$168.00	$116.00	$92.00	$84.00	$70.00		
	FC 120 - SOCIAL, ECONOMIC & ENVIRONMENTAL STUDIES								
120.1	WATERS OF THE U.S.								
1	TXRAM FUNCTIONAL ASSESSMENT	N/A	2	14	20	10	1	47	$ 4,710.00
2	USACE PRE-CONSTRUCTION NOTIFICATION	N/A	14	32	24	10	1	81	$ 9,182.00
								128	$ 13,892.00
	FC 120 - SUBTOTALS								
	HOURS SUBTOTALS		16	46	44	20	2	128	
	LABOR COST SUBTOTALS		$ 2,688.00	$ 5,336.00	$ 4,048.00	$ 1,680.00	$ 140.00		$ 13,892.00

$ 13,892.00

Expense Item	Unit	Unit Cost	Amount	Total Cost
8 1/2" X 11" B/W Paper Copies	sheet	$ 0.10	500	$ 50.00
11" X 17" B/W Paper Copies	sheet	$ 0.15	50	$ 7.50
8 1/2" X 11" Color Paper Copies	sheet	$ 1.00	100	$ 100.00
11" X 17" Color Paper Copies	sheet	$ 1.80	50	$ 90.00
Standard Postage	letter	$ 0.45	10	$ 4.50
Express Mail (Standard)	each	$ 15.00	2	$ 30.00
Deliveries	each	$ 25.00	4	$ 100.00
Rental Car	day	$ 80.00	1	$ 80.00
Meals	day	$ 36.00	1	$ 36.00
Mileage	mile	$ 0.550	600	$ 330.00
GPS Rental	day	$ 80.000	1	$ 80.00
SUBTOTAL DIRECT EXPENSES				$ 908.00

PEC Pond - Estimated Fee Schedule

Task and Description	Engineer (Principal)	Senior Engineer	Engineer (PE)	Registered Surveyor	Engineer in Training	Senior Technician	Clerical	2-Man Survey	Total Estimate
Hourly Rate:	233	216	161	134	133	128	72	160	
Design Phase (FC 161)									
a. Obtain related data, plats, plans, studies and reports			4		8		2		1,852
b. Prepare construction drawings and specs	2	4	40		120				23,730
c. Proposed roadway coordination			12		8				2,996
d. Prepare project quantities and cost estimate			8		8				2,352
e. Client review and revisions			12		24				5,124
f. Prepare and submit SWP to City			8		16				3,416
g. Prepare and submit CZP Modification		2	16		32		4		7,552
g. ODE - TCEQ Submittal Fee									5,000
Subtotal Hours:	**2**	**6**	**100**	**0**	**216**	**0**	**6**	**0**	**330**
Subtotal Fees:	**$466**	**$1,296**	**$16,100**	**$0**	**$28,728**	**$0**	**$432**	**$0**	**$52,022**
Topographic Surveying Phase (FC 150)									
a. Obtain right-of-entry			1	1			1		367
b. Prefield (Texas811, OneCall)				1		1			262
c. Field-Topo								8	1,280
d. Office-process, draft, DTM				2		8			1,292
e. QA/QC				1		1			262
Subtotal Hours:	**0**	**0**	**0**	**4**	**0**	**10**	**0**	**8**	**22**
Subtotal Fees:	**$0**	**$0**	**$0**	**$536**	**$0**	**$1,280**	**$0**	**$1,280**	**$3,096**
Bidding & Construction Phase Services (FC 309)									
a. Respond to Bidder questions as necessary			8		8				2,352
Subtotal Hours:	**0**	**0**	**8**	**0**	**8**	**0**	**0**	**0**	**16**
Subtotal Fees:	**$0**	**$0**	**$1,288**	**$0**	**$1,064**	**$0**	**$0**	**$0**	**$2,352**
TOTAL HOURS:	**2**	**6**	**108**	**4**	**224**	**10**	**6**	**8**	**368**
TOTAL FEES:	**$466**	**$1,296**	**$17,388**	**$536**	**$29,792**	**$1,280**	**$432**	**$1,280**	**$57,470**

FUNCTION CODE 150 - SURVEY		Survey Director $160	Project Surveyor, SIT $120	Survey Technician I $100	2 Person Field Crew $140	subtotals
ROW Survey						
	Revise Field Notes for Pond and Storm Sewer Vacations	8		8		$2,080
	Prepare Field Notes for New Pond and Storm Sewer Easements	8	16			$3,200
	QA/QC	4	4			$1,120
	subtotal	*$3,200*	*$2,400*	*$800*	*$0*	*$6,400*
Design Survey						
	Revise Survey Control Sheets		8			$960
	QA/QC	2				$320
	subtotal	*$320*	*$960*	*$0*	*$0*	*$1,280*
TOTALS		**$3,520**	**$3,360**	**$800**	**$0**	**$7,680**

Commissioners Court - Regular Session **17.**

Meeting Date: 10/17/2017

Discuss consider and take appropriate action regarding the temporary use of the lowest level of the parking garage by the Sheriff Office

Submitted For: Robert Daigh **Submitted By:** Lydia Linden, Infrastructure

Department: Infrastructure

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action regarding the temporary use of the lowest level of the parking garage by the Sheriff's Office. The anticipated time period is not anticipated to exceed six months.

Background

The Sheriff's Office has requested to temporarily store their boats and associated equipment In the lowest level of the parking garage until their facilities at the North Campus can be completed. This will allow for improved storage conditions to protect the equipment from the weather. The storage period is not anticipated to exceed six months. This request has been coordinated with and has the support of the Facilities Division.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/11/2017 09:34 AM
Form Started By: Lydia Linden		Started On: 10/10/2017 06:11 PM
Final Approval Date: 10/11/2017		

Commissioners Court - Regular Session **18.**

Meeting Date: 10/17/2017

Discuss consider and take action regarding appointment of Williamson County representative for CAMPO Technical Advisory Committee

Submitted For: Robert Daigh **Submitted By:** Lydia Linden, Infrastructure

Department: Infrastructure

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action regarding the appointment of Robert B. Daigh P.E. as the Williamson County representative of the CAMPO Technical Advisory Committee and Katheryn Cromwell AICP as an alternate member for fiscal year 2018.

Background

CAMPO requires all TAC memberships to be renewed on a yearly basis.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/11/2017 02:40 PM
Form Started By: Lydia Linden		Started On: 10/11/2017 02:28 PM
Final Approval Date: 10/11/2017		

Commissioners Court - Regular Session **19.**

Meeting Date: 10/17/2017

FY 18 Capital

Submitted By: Ashlie Koenig, Budget Office

Department: Budget Office

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss FY 18 allocation of funding for the Capital Improvement Program.

Background

After discussion and action taken on 10/3/17, we have a balance of $51,545.25 available in unallocated and a balance of $10,426,004.99 in available CIP funding for a total funds available of $10,477,550.24 to allocate to projects. Items discussed on 10/3/17 have been highlighted, and items requested to be removed from the list have a red strike through.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

FY 18 Unallocated CIP

FY 18 Capital Requests

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/10/2017 11:26 AM
Form Started By: Ashlie Koenig		Started On: 10/10/2017 08:37 AM
Final Approval Date: 10/10/2017		

Unallocated as of October 2017		
2013 CIP	$	32,569.71
2014 CIP	$	18,975.54
2015 CIP	$	-
2017 CIP	$	-
	$	**51,545.25**

CAPITAL IMPROVEMENT PLAN 2017

Item #		FY Req	PROJECT	Description	Bldg #	Total Cost	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Department of Emergency Services											
100		2015	Weir Ambulance Station (Remodel/additions)			$ 100,000.00					
105		**2015**	**Cedar Park Ambulance Station**			**$ 400,000.00**	$ 400,000.00				
110		2015	M11 Ambulance Station; Additional bay to house peak demand ambulance			$ 100,000.00					
120		2015	M42 Taylor Ambulance Station Move to possible different location out of flood plain			$ 750,000.00					
130		2015	Leander Ambulance Station / New Station			$ 300,000.00					
135		2015	Round Rock Ambulance Station/ New station @ 1431			$ 300,000.00					
140		2015	Prime Site #2 / Create redundant backup to Prime #1			$ 3,000,000.00					
145		2015	Liberty Hill SW (Site 12) Date TBD / New Tower			$ 2,000,000.00					
150		2015	Master Site Date TBD / New Tower			$ 3,500,000.00					
155		2015	Liberty Hill NE (Site 13) Date TBD / New Tower			$ 2,000,000.00					
160		**2016**	**Florence (Site5) Relocation (Lease Expires April 2019 w/a notification in January)**			**$ 2,200,000.00**					
165		2015	Jarrell (Site 11) / New Tower			$ 900,000.00					
170		2015	Granger SE (Site 14) Date TBD / New Tower			$ 2,000,000.00					
175		2015	Thrall SE (site 15) Date TBD / New Tower			$ 2,000,000.00					
180		Various	System Fill in Towers Date TBD / New Towers			$ 1,500,000.00					
181		**2018**	**City Annex Building**			**$ 108,818.00**					
182		**2018**	**SOTC Building**			**$ 91,004.00**					
183		**2018**	**EMS - Training Building**			**$ 106,078.00**					
184		**2018**	**Wireless Communications Department DAS**			**$ 89,984.00**					
185		**2018**	**M41 Taylor Ambulance Station**			**$ 100,000.00**					
187		**2018**	**Hutto Ambulance Station / New Station**			**$ -**					
188		~~**2018**~~	~~**ESOC - Replace & Enhance Audio/Visual System**~~			~~**$ 130,000.00**~~					
190		**2018**	**ESOC - Radio Consoles for Training**			**$ 1,500,000.00**					
Department of Information Technology Services											
205		2015	Inner Loop Annex - Technology Services - Public Safety vehicle technology upgrades and integration		#	$ 2,895,000.00					
207		**2018**	**Upgrade to NICE Equip 911 Communications / Required for Phone Upgrade Project**			**$ 247,291.00**	$ 247,291.00				
210		2015	Redaction Software for Odyssey			$ 800,000.00					
Parks											
305		2016	EXPO Horse Stall Barn			$ 1,600,000.00					
308		2016	EXPO East Concession & Restrooms			$ 787,500.00					
312		2016	EXPO - Covered Arena Widening Project			$ 409,500.00					
325		2016	Champion Park - Splash Pad Renovation Option A			$ 250,000.00					
327		2016	Champion Park - Splash Pad Renovation Option B			$ 455,000.00					
329		2016	Champion Park - Replace Shade Shelter			$ 150,000.00					
331		2016	Champion Park - Additional Parking Spaces Option A 75 Spaces			$ 450,000.00					
334		2016	Champion Park - Additional Parking Spaces Option B 45 Spaces			$ 267,750.00					
340		2016	Berry Springs - Heritage / Visitor Center			$ 775,000.00					
345		2016	Berry Springs Maintenance Yard & Building			$ 350,000.00					
350		2016	Berry Springs Waterless Restroom for Trail			$ 75,000.00					
360		2016	SW WCRP Enclose East End of Maint Bldg			$ 78,750.00					
365		2016	SW WCRP Waterless Restroom for Trail			$ 75,000.00					
375		2018	SW WCRP Parking Lot Fogseal and Restripe			$ 715,000.00					
377		**2018**	**EXPO - Wind Block Hanger Style Doors**			**$ 900,000.00**					
~~379~~		**2018**	**EXPO - Large Blade Fans**			~~**$ 150,000.00**~~					

CAPITAL IMPROVEMENT PLAN 2017

			Description	Bldg #	Total Cost	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
382		2018	**EXPO - Electronic Events Sign**		**$ 200,000.00**					
385		2018	**Champion Park - Smaller Pavilion w/ Restrooms**		**$ 350,000.00**					
Department of Infrastructure										
400		2015	Jail Planning & Design master plan jail improvements and fourth floor buildout		$ 250,000.00					
402		2015	Remodel Round Rock Annex Building A: after Health Dept vacates building		$ 2,525,000.00					
405		2015	Remodel Round Rock Annex Building B: Remodel to bring up to standard		$ 2,525,000.00					
407		2015	Repair Historic Court House Terracotta: replace all blocks banding balconies		$ 250,000.00					
410		2015	Cedar Park Annex - JP2 - Remodel reception	#	$ 150,000.00					
412		2015	Cedar Park Annex - Tax Office - 2-Story addition on back of annex	#	$ 3,000,000.00					
413		2015	Inner Loop Annex - Technology Services - Add vehicle shelter or carport in the parking area	#	$ 35,000.00					
414		2015	Juvenile Justice Center - Detention - Install outdoor track	#	$ 150,000.00					
416		2015	Juvenile Justice Center - Detention - Install outdoor pavilion	#	$ 150,000.00					
418		2015	Juvenile Justice Center - Detention - Add outdoor storage	#	$ 135,000.00					
420		2015	Juvenile Justice Center - Addition on east side for probation officers & counseling personnel offices.	#	$ 2,300,000.00					
423		2015	Juvenile Justice Center - RR, CP & Taylor - Additions for probation officers & Counseling personnel offices		$ 150,000.00					
425		2015	Juvenile Justice Center - Restroom facilities & water fountain on Ropes/Obstacle Course and Marching field.	#	$ 150,000.00					
428		2015	Juvenile Justice Center - Design of 48 beds secure residential facility	#	$ 2,000,000.00					
430		2015	JP #4 - Backup generator to keep office running during emergencies	#	$ 140,000.00					
432		2018	Pct #4 Annex Finish Out		$ 2,400,000.00					
435		2015	Tax Office Bldg. - Carquest space - Demo and remodel existing County owned bldg. into offices and large meeting room	#	$ 600,000.00					
437		2015	Commissioner Pct 4 - Sheriff's Office-Facilitate to house CID		$ 1,750,000.00					
438		**2018**	**Jail Security**		**$ 400,000.00**					
439		2016	Justice Center - Employee Breakroom Addition CC		$ 150,000.00					
441		**2018**	**Remodel for Future Tenants - Lott Bldg.**		**$ 5,000,000.00**					
443		**2018**	**Justice Center - Minor Remodel to accommodate backup server room**		**$ 650,000.00**	$ 650,000.00				
444		**2018**	**Justice Center - Remodel of DA's Office & Grand Jury Room / Expansion into Probation**		**$ 327,000.00**					
445		**2018**	**Remodel of County Attorney Civil Division on 1st floor of Justice Ctr**		**$ 115,000.00**					
447		**2018**	**Remodel of Impound Yard to New Sign Shop**		**$ 197,000.00**					
449		**2018**	**Jail - Privacy Wall to Separate Booking Area**		**$ 55,000.00**					
451		**2018**	**Jail - Designated Smoking Room for Employees**		**$ 75,000.00**					
455		**2018**	**Jail - Headquarters Expansion (where handicap parking is) - more space (Design)**		**$ 500,000.00**					
457		**2018**	**SO - SWAT O-Course - repel tower for training**		**$ 900,000.00**					
459		**2018**	**SO - Secure HQ parking with new gates / window screens**		**$ 500,000.00**					
461		**2018**	**SO - Equip outfit for Lott and New Training Ctr**		**$ 100,000.00**					
466		**2018**	**SO - Permanent Bldg to house explosives and ammunition**		**$ 155,000.00**					
468		**2018**	**SO - Driving Track and Skid Pad at Firearms Range for training**		**$ 1,500,000.00**					
470		**2018**	**SO - Fencing for New Training Ctr**		**$ 1,450,000.00**					
475		**2018**	**SO - Gym w/false ceiling at HQ**		**$ 300,000.00**					
477		**2018**	**SO - Add fencing/gates between SO and Justice Center**		**$ 50,000.00**					
479		**2018**	**Central Maint - Add counter, carpet and walls to lobby due to transfer of septic to county engineer's office**		**$ 272,000.00**					
481		**2018**	**Central Maint - Paint, Carpet and Minor Wall Relocations due to vacating of bldg of tenants moving to new Pct #3 building**		**$ 150,000.00**					
483		**2018**	**Central Maint - storage shed construction for sign shop**		**$ 900,000.00**					
485		**2018**	**New Administration Bldg - Planning and Design**		**$ 900,000.00**					
			EXISTING PROJECTS / UNFUNDED COMPONENTS							

CAPITAL IMPROVEMENT PLAN 2017

			Description	Bldg #	Total Cost	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
487		2018	North Campus / Facilities Storage Building		$ 1,600,000.00					
489		2018	North Campus / Sign Shop Renovation		$ 100,000.00					
490		2018	North Campus / Fuel Station		$ 1,500,000.00					
~~491~~		~~2018~~	~~North Campus / Vehicle Storage Building F~~		~~$ 800,000.00~~					
~~492~~		~~2018~~	~~North Campus / Internal Drive~~		~~$ 300,000.00~~					
494		2018	SO Training Center / Vehicle Storage Building		$ 750,000.00					
496		2018	Gun Range / Security Wall		$ 1,600,000.00					
499		~~2018~~	~~New Precinct #3 Office / Storage Building~~		~~$ 500,000.00~~					
Elections										
500		2015	Voting Machines (970 machines at $4,500)		$ 4,365,000.00					
			***Indicates Items Newly Added to Capital Requests**							
			*Indicates item as high priority							
			TOTAL		**$ 79,977,675**	**$ 1,297,291**	**$ -**	**$ -**	**$ -**	**$ -**

Commissioners Court - Regular Session **20.**

Meeting Date: 10/17/2017

2018 Capital Improvement Program

Submitted For: Julie Kiley **Submitted By:** Emmeline Palma, County Auditor

Department: County Auditor

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action to approve the projects and budgets for the 2018 Capital Improvement Program.

Background

A list of projects is attached to the preceding agenda item. Total dollars available to allocate are $10,426,004.99. $650,000 has been approved and allocated to the Justice Center Server Room P469 in Commissioner's Court on October 3, 2017 Item 31.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Unallocated

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/09/2017 02:47 PM
Form Started By: Emmeline Palma		Started On: 10/09/2017 07:43 AM
Final Approval Date: 10/09/2017		

Unallocated as of October 2017		
2013 CIP	$	32,569.71
2014 CIP	$	18,975.54
2015 CIP	$	-
2017 CIP	$	-
	$	**51,545.25**

Commissioners Court - Regular Session **21.**

Meeting Date: 10/17/2017

2013, 2014, and 2017 Capital Improvement Programs Budget Transfers

Submitted For: Julie Kiley **Submitted By:** Emmeline Palma, County Auditor

Department: County Auditor

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action to approve the use of unallocated funds for the 2013, 2014, and 2017 Capital Improvement Programs, to include assigning funds to new projects.

Background

Attached are reports that reflect the active Capital Improvement Projects and the unallocated balances as of Ctober 2017. A total of $51,545.25 is available to assign to projects.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Active Capital Improvement Projects

Unallocated

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/09/2017 02:47 PM
Form Started By: Emmeline Palma		Started On: 10/09/2017 07:52 AM
Final Approval Date: 10/09/2017		

Summary Cash End Projects as of October 2017

Award	Project	Project Name	Revenue	Budget	Actual Cost	Commitment Amount	Total Cost	Available Balance
2013 CIP	P401	PARKING GARAGE	$ 1,498,947.90	$ 1,500,000.00	$ 1,498,947.90	$ 1,051.95	$ 1,499,999.85	$ 0.15
2013 CIP	P468	NICE Equipment Upgrade	$ -	$ 62,716.65	$ -	$ -	$ -	$ 62,716.65
2014 CIP	P411	JAIL PLUMBING	$ 91,084.90	$ 700,000.00	$ 182,168.66	$ 60,675.35	$ 242,844.01	$ 457,155.99
2014 CIP	P425	Phone System Upgrade	$ 211,744.39	$ 403,703.99	$ 211,744.39	$ 189,247.50	$ 400,991.89	$ 2,712.10
2015 CIP	P411	JAIL PLUMBING	$ 100.44	$ 641,506.99	$ 100.44	$ -	$ 100.44	$ 641,406.55
2015 CIP	P428	Andice Ambulance Station	$ -	$ 300,000.00	$ -	$ -	$ -	$ 300,000.00
2015 CIP	P429	Sam Bass Ambulance Station	$ -	$ 300,000.00	$ -	$ -	$ -	$ 300,000.00
2015 CIP	P430	Dam 7 Regional Trail	$ -	$ 163,600.00	$ -	$ 163,600.00	$ 163,600.00	$ -
2017 CIP	P312	FINISH OUT-JUSTICE CTR	$ 39,089.06	$ 794,665.45	$ 121,312.63	$ 423,401.72	$ 544,714.35	$ 249,951.10
2017 CIP	P411	JAIL PLUMBING	$ -	$ 3,457,160.20	$ -	$ -	$ -	$ 3,457,160.20
2017 CIP	P430	Dam 7 Regional Trail	$ -	$ 163,600.00	$ -	$ 163,600.00	$ 163,600.00	$ -
2017 CIP	P435	Animal Shelter Expansion Ph I	$ -	$ 2,000,000.00	$ -	$ -	$ -	$ 2,000,000.00
2017 CIP	P452	CEDAR PARK ANNEX BLDG	$ 21,905.53	$ 1,800,000.00	$ 164,497.24	$ 554,756.29	$ 719,253.53	$ 1,080,746.47
2017 CIP	P467	Cedar Park Ambulance Station	$ -	$ 400,000.00	$ -	$ -	$ -	$ 400,000.00
2017 CIP	P468	NICE Equipment Upgrade	$ -	$ 184,574.35	$ -	$ -	$ -	$ 184,574.35
2018 CIP	P469	Justice Cetner Server Room	$ -	$ 650,000.00	$ -	$ -	$ -	$ 650,000.00
			$ 1,862,872.22	$ 13,521,527.63	$ 2,178,771.26	$ 1,556,332.81	$ 3,735,104.07	$ 9,786,423.56

Unallocated as of October 2017		
2013 CIP	$	32,569.71
2014 CIP	$	18,975.54
2015 CIP	$	-
2017 CIP	$	-
	$	**51,545.25**

Commissioners Court - Regular Session **22.**

Meeting Date: 10/17/2017

CR 101 Contract

Submitted For: Charlie Crossfield **Submitted By:** Charlie Crossfield, Road Bond

Department: Road Bond

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on a Real Estate Contract with Rummel and Rohde Farms. LTD. for right of way needed on CR 101; Road Bond Project Funding Source- P269

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Rohde Contract

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Charlie Crossfield		Started On: 10/12/2017 09:11 AM
Final Approval Date: 10/12/2017		

REAL ESTATE CONTRACT
CR 101 Right of Way—Parcel 21

THIS REAL ESTATE CONTRACT ("Contract") is made by RUMMEL AND ROHDE FARMS, LTD. (referred to in this Contract as "Seller") and WILLIAMSON COUNTY, TEXAS (referred to in this Contract as "Purchaser"), upon the terms and conditions set forth in this Contract.

ARTICLE I
PURCHASE AND SALE

By this Contract, Seller sells and agrees to convey, and Purchaser purchases and agrees to pay for, the tract(s) of land described as follows:

> All of that certain 4.891 acres (213,061 Sq. Ft.) tract of land in the James C. Eaves Survey, Abstract No. 213, Williamson County, Texas; being more fully described by metes and bounds in Exhibit "A", attached hereto and incorporated herein (**Parcel 21**);

together with all and singular the rights and appurtenances pertaining to the property, including any right, title and interest of Seller in and to adjacent streets, alleys or rights-of-way (all of such real property, rights, and appurtenances being referred to in this Contract as the "Property"), and any improvements situated on and attached to the Property described in Exhibit "A" not otherwise agreed herein to be retained by Seller, for the consideration and upon and subject to the terms, provisions, and conditions set forth below.

ARTICLE II
PURCHASE PRICE

Purchase Price

2.01. The Purchase Price for the Property described in Exhibit "A", any improvements on the Property, and any damage to or cost to cure and/or temporary fencing for the remaining property of Seller shall be the sum of EIGHTY-SIX THOUSAND SIX HUNDRED FIFTY and 00/100 Dollars ($86,650.00)

Payment of Purchase Price

2.02. The Purchase Price shall be payable in cash at the Closing.

Special Provisions

2.03. Pond Berm Grading. As additional consideration for the Property conveyed herein which shall survive the Closing of this transaction, by execution of this Contract the Purchaser agrees and grants Seller, its contractors, employees and agents the temporary right and license to enter the remaining property of Seller for the sole purpose of re-grading and re-establishing the bank and lateral support berm of the exiting agricultural pond structure outside of the Property, in the locations and generally according to the design, plan and specifications as shown in Exhibit "B" attached hereto and incorporated herein.

This right and license shall be in full force and effect until substantial completion of the proposed CR 101 roadway improvement project by Purchaser, when at such time all right and license of Purchaser to enter the remaining property of Seller shall expire, and all right, title and license to the remaining property and any improvements thereon shall be the sole ownership and responsibility of Seller.

To the extent allowed by law, Purchaser shall hold harmless, indemnify and defend Seller, and Seller's heirs, successors and assigns from all losses, damages, injuries to persons, including death, fines and costs of every type and character arising out of and proximately caused due to the act or omission of Purchaser, its agents, officers, employees, contractors or subcontractors, or anyone or any entity on the remaining property of Seller in carrying out the tasks described herein, from Purchaser, its agents, officers, employees, contractors or subcontractors.

2.04. Construction Contractor Coordination. As an obligation which shall survive the Closing of this transaction, Purchaser agrees that it shall provide coordination with its CR 101 roadway construction contractor in order to facilitate any potential improvements or additional construction on the remaining property of Seller and requested by Seller. Any resulting agreements for additional work on the remaining property of Seller not otherwise described in this Contract shall be at the sole cost of Seller.

2.05. Temporary fencing. In consideration of the Purchase Price, and as an obligation which shall survive the Closing of this transaction, the Seller shall install temporary fencing on its remainder property which shall be in the location and specification sufficient to keep livestock from entering the temporary license area and impairing the grading obligations of Purchaser described in Section 2.03 above, and Exhibit "B". The installation of this fencing by Seller may occur at any time prior to the beginning of construction of the proposed CR 101 improvements, but in no event later than 30 days after receiving notice of award of a construction contract from Purchaser. If Seller fails to complete this construction obligation then Purchaser shall specifically be allowed and permitted to enter the property for completion of this obligation, and shall be entitled to return and reimbursement of $2,500 of the Purchase Price. The temporary fencing described herein may be removed upon completion of the grading work as described in Section 2.03 as certified by the Purchaser's engineer.

ARTICLE III
PURCHASER'S OBLIGATIONS

Conditions to Purchaser's Obligations

3.01. The obligations of Purchaser hereunder to consummate the transactions contemplated hereby are subject to the satisfaction of each of the following conditions (any of which may be waived in whole or in part by Purchaser at or prior to the Closing).

Miscellaneous Conditions

3.02. Seller shall have performed, observed, and complied with all of the covenants, agreements, and conditions required by this Contract to be performed, observed, and complied with by Seller prior to or as of the closing.

ARTICLE IV
REPRESENTATIONS AND WARRANTIES OF SELLER

Seller hereby represents and warrants to Purchaser as follows, which representations and warranties shall be deemed made by Seller to Purchaser also as of the Closing Date, to the best of Seller's current actual knowledge:

(1) There are no parties in possession of any portion of the Property as lessees, tenants at sufferance, or trespassers, other than as previously disclosed to Purchaser;

(2) Seller has complied with all applicable laws, ordinances, regulations, statutes, rules and restrictions relating to the Property, or any part thereof;

The Property herein is being conveyed to Purchaser under threat of condemnation.

ARTICLE V
CLOSING

Closing Date

5.01. The Closing shall be held at the office of Independence Title Company on or before November 15th, 2017, or at such time, date, and place as Seller and Purchaser may agree upon, or within 10 days after the completion of any title curative matters if necessary for items as shown on the Title Commitment or in the contract (which date is herein referred to as the "Closing Date").

Seller's Obligations at Closing

5.02. At the Closing Seller shall:

(1) Deliver to Purchaser a duly executed and acknowledged Deed conveying good and indefeasible title to Williamson County, Texas in fee simple to all of the Property described in Exhibits "A", free and clear of any and all liens and restrictions, except for the following:

(a) General real estate taxes for the year of closing and subsequent years not yet due and payable;

(b) Any exceptions approved by Purchaser pursuant to Article III hereof; and

(c) Any exceptions approved by Purchaser in writing.

The Deed shall be in the form as shown in Exhibit "C" attached hereto and incorporated herein.

(2) Deliver to Purchaser a Texas Owner's Title Policy at Purchaser's sole expense, issued by Title Company, in Grantee's favor in the full amount of the Purchase Price, insuring Purchaser's contracted interests in and to the Property subject only to those title exceptions listed herein, such other exceptions as may be approved in writing by Purchaser, and the standard printed exceptions contained in the usual form of Texas Owner's Title Policy, provided, however:

(a) The boundary and survey exceptions shall be deleted;

(b) The exception as to restrictive covenants shall be endorsed "None of Record", if applicable; and

(c) The exception as to the lien for taxes shall be limited to the year of Closing and shall be endorsed "Not Yet Due and Payable".

(d) Deliver to Purchaser possession of the Property if not previously done.

Purchaser's Obligations at Closing

5.03. At the Closing, Purchaser shall:

(a) Pay the cash portion of the Purchase Price and Additional Compensation.

Prorations

5.04. General real estate taxes for the then current year relating to the Property shall be prorated as of the Closing Date and shall be adjusted in cash at the closing. If the Closing shall occur before the tax rate is fixed for the then current year, the apportionment of taxes shall be upon the basis of the tax rate for the next preceding year applied to the latest assessed valuation. Agricultural roll-back taxes, if any, shall be paid by Purchaser.

Closing Costs

5.05. All costs and expenses of closing in consummating the sale and purchase of the Property shall be borne and paid as follows:

(1) Owner's Title Policy and survey to be paid by Purchaser.

(2) Deed, tax certificates, and title curative matters, if any, paid by Purchaser.

(3) All other closing costs shall be paid by Purchaser.

(4) Attorney's fees paid by each respectively.

ARTICLE VI
BREACH BY SELLER

In the event Seller shall fail to fully and timely perform any of its obligations hereunder or shall fail to consummate the sale of the Property for any reason, except Purchaser's default, Purchaser may: (1) enforce specific performance of this Contract; or (2) request that the Escrow Deposit, if any, shall be forthwith returned by the title company to Purchaser.

ARTICLE VII
BREACH BY PURCHASER

In the event Purchaser should fail to consummate the purchase of the Property, the conditions to Purchaser's obligations set forth in Article III having been satisfied and Purchaser being in default and Seller not being in default hereunder, Seller shall have the right to receive the Escrow Deposit, if any, from the title company, the sum being agreed on as liquidated damages for the failure of Purchaser to perform the duties, liabilities, and obligations imposed upon it by the terms and provisions of this Contract, and Seller agrees to accept and take this cash payment as its total damages and relief and as Seller's sole remedy hereunder in such event. If no Escrow Deposit has been made then Seller shall receive the amount of $500 as liquidated damages for any failure by Purchaser.

ARTICLE VIII
MISCELLANEOUS

Notice

8.01. Any notice required or permitted to be delivered hereunder shall be deemed received when sent by United States mail, postage prepaid, certified mail, return receipt requested, addressed to Seller or Purchaser, as the case may be, at the address set forth opposite the signature of the party.

Texas Law to Apply

8.02. This Contract shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Williamson County, Texas.

Parties Bound

8.03. This Contract shall be binding upon and inure to the benefit of the parties and their respective heirs, executors, administrators, legal representatives, successors and assigns where permitted by this Contract.

Legal Construction

8.04. In case any one or more of the provisions contained in this Contract shall for any reason be held to be invalid, illegal, or unenforceable in any respect, this invalidity, illegality, or unenforceability shall not affect any other provision hereof, and this Contract shall be construed as if the invalid, illegal, or unenforceable provision had never been contained herein.

Prior Agreements Superseded

8.05. This Contract constitutes the sole and only agreement of the parties and supersedes any prior understandings or written or oral agreements between the parties respecting the within subject matter.

Time of Essence

8.06. Time is of the essence in this Contract.

Gender

8.07. Words of any gender used in this Contract shall be held and construed to include any other gender, and words in the singular number shall be held to include the plural, and vice versa, unless the context requires otherwise.

Memorandum of Contract

8.08. Upon request of either party, the parties shall promptly execute a memorandum of this Contract suitable for filing of record.

Compliance

8.09 In accordance with the requirements of Section 20 of the Texas Real Estate License Act, Purchaser is hereby advised that it should be furnished with or obtain a policy of title insurance or Purchaser should have the abstract covering the Property examined by an attorney of Purchaser's own selection.

Effective Date

8.10 This Contract shall be effective as of the date it is approved by Williamson County, Texas which date is indicated beneath the County Judge's signature below.

Counterparts

8.11 This Contract may be executed in any number of counterparts, which may together constitute the Contract. Signatures transmitted by facsimile or electronic mail may be considered effective as originals for purposes of this Contract.

SELLER:

RUMMEL AND ROHDE FARMS, LTD.

By: Rummel & Rohde Management LLC,
its General Partner

By: Joanne A. Rummel
Joanne A. Rummel, Manager

By: Ava Rohde
Ava Rohde, Manager

Address: 1051 CR 369
Taylor, TX 76574

PURCHASER:

WILLIAMSON COUNTY, TEXAS

By: _____
Dan A. Gattis
County Judge

Address: 710 Main Street, Suite 101
Georgetown, Texas 78626

Date:_____

EXHIBIT A

County: Williamson
Parcel: 21
Highway: County Road 101

METES & BOUNDS DESCRIPTION FOR PARCEL 21

METES & BOUNDS DESCRIPTION FOR A 4.891 ACRES (213,061 SQUARE FOOT) TRACT OF LAND SITUATED IN THE JAMES C. EAVES SURVEY, ABSTRACT NO. 213, WILLIAMSON COUNTY, TEXAS AND BEING A PORTION OF THE REMAINDER TRACT OF LAND DESCRIBED AS A 60.5-ACRE TRACT (FIRST TRACT) AND A 60-ACRE TRACT (SECOND TRACT) AS CONVEYED TO RUMMEL AND ROHDE FARMS, LTD., BY CORRECTION SPECIAL WARRANTY DEED RECORDED IN DOCUMENT NO. 2011077685 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS; SAID 4.891 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS AND SHOWN ON THE ATTACHED SKETCH:

COMMENCING FOR POINT OF REFERENCE at a 1/2-inch iron rod with cap stamped "CCC 4835" found on the south right-of-way line of County Road 369 (width varies), at the northeast corner of the above described Rummel and Rohde Farms tract; Thence, with the south right-of-way line of said County Road 369, and the north line of said Rummel and Rohde Farms tract, S 68°40'56" W a distance of 1,700.64 feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" (NAD-83, Central Zone Grid Coordinates: N: 10,186,715.70, E: 3,189,284.77) set for the northeast corner and **POINT OF BEGINNING** of the herein described tract, 80.00 feet right of County Road 101 baseline station 118+95.43;

THENCE, leaving the south right-of-way line of said County Road 369, over and across said Rummel and Rohde Farms tract, **S 23°02'23" W** a distance of **14.12** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set for an angle point, 70.00 feet right of County Road 101 baseline station 118+85.46;

THENCE, S 22°02'12" E a distance of **785.46** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set at an angle point, 70.00 feet right of County Road 101 baseline station 111+00;

THENCE, S 16°19'34" E a distance of **100.50** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set at an angle point, 60.00 feet right of County Road 101 baseline station 110+00;

THENCE, S 22°02'12" E a distance of **1,000.62** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set at a point of curvature of a curve to the right, 60.00 feet right of County Road 101 baseline station 99+99.38;

THENCE, along said curve to the right, an arc distance of **432.70** feet, having a radius of **10,060.00** feet, central angle of **2°27'52"** and a chord which bears **S 20°48'16" E** a distance of **432.67** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set for corner, 60.00 feet right of County Road 101 baseline station 95+69.26;

THENCE, S 19°34'20" E a distance of **527.00** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set at a point of curvature of a curve to the left, 60.00 feet right of County Road 101 baseline station 90+42.26;

THENCE, along said curve to the left, an arc distance of **34.65** feet, having a radius of **9,940.00** feet, central angle of **0°11'59"** and a chord which bears **S 19°40'20" E** a distance of **34.65** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set on the south line of said Rummel and Rohde Farms tract, on the north line of a remaining portion of a called 54.791-acre tract as conveyed to Robert E. Prasatik in warranty deed with vendor's lien as recorded in Volume 772, Page 605 of the Deed Records of Williamson County, Texas, for the southeast corner of the herein described tract, 60.00 feet right of County Road 101 baseline station 90+07.40;

THENCE, with the south line of said Rummel and Rohde Farms tract, **S 68°39'37" W** a distance of **19.88** feet to a calculated point on the east right-of-way line of County Road 101 (width varies), at the common west corner of said Rummel and Rohde Farms tract and said Robert E. Prasatik tract, for the southwest corner of the herein described tract;

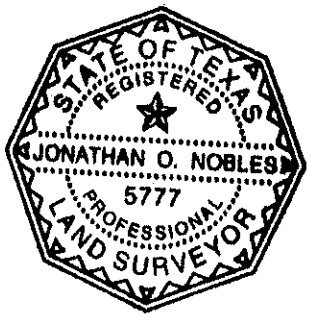
THENCE, with the east right-of-way line of said County Road 101 and the west line of said Rummel and Rohde Farms tract, **N 28°24'23" W** a distance of **238.21** feet to a calculated angle point on the west line of said Rummel and Rohde Farms tract;

THENCE, continuing with the occupied east right-of-way line of County Road 101 as occupied, **N 21°53'05" W** a distance of **2,653.94** feet a calculated point at the intersection of the east right-of-way line of said County Road 101 and the south right-of-way line of said County Road 369, for the northwest corner of the herein described tract;

THENCE, with the north line of said Rummel and Rohde Farms tract and the south right-of-way line of said County Road 369, **N 68°40'56" E** a distance of **92.66** feet to the **POINT OF BEGINNING** and containing 4.891 acres (213,061 square feet) of land, more or less.

Bearing orientation is based on the Texas State Plane Coordinate System NAD-83, Central Zone 4203. All distances are surface and may be converted to grid by dividing by a scale factor of 1.00012352.

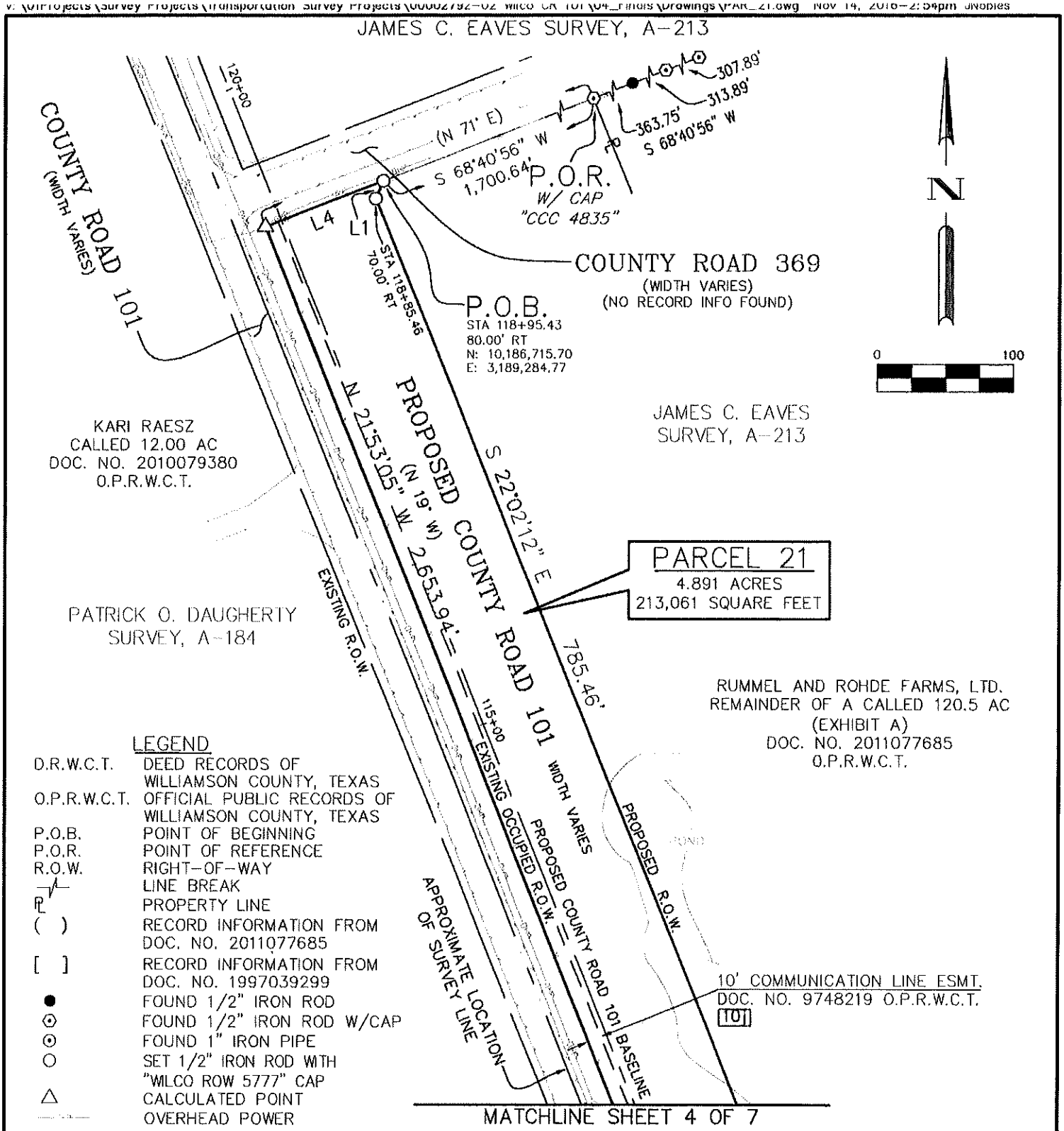
I hereby certify that these notes were prepared by BGE from a survey made on the ground under my supervision on February 26, 2016 and are true and correct to the best of my knowledge. A sketch accompanies this description.



11/14/2016
Date

Jonathan O. Nobles RPLS No. 5777
Brown & Gay Engineers, Inc.
7000 North Mopac, Suite 330
Austin, Texas 78731
Telephone: (512) 879-0400
TBPLS Licensed Surveying Firm No. 10106502

Client: Williamson County
Date: November 14, 2016
Job No: 2792-02



LEGEND

D.R.W.C.T.	DEED RECORDS OF WILLIAMSON COUNTY, TEXAS
O.P.R.W.C.T.	OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
P.O.B.	POINT OF BEGINNING
P.O.R.	POINT OF REFERENCE
R.O.W.	RIGHT-OF-WAY
—/—	LINE BREAK
℄	PROPERTY LINE
( )	RECORD INFORMATION FROM DOC. NO. 2011077685
[ ]	RECORD INFORMATION FROM DOC. NO. 1997039299
●	FOUND 1/2" IRON ROD
⊙	FOUND 1/2" IRON ROD W/CAP
⊙	FOUND 1" IRON PIPE
○	SET 1/2" IRON ROD WITH "WILCO ROW 5777" CAP
△	CALCULATED POINT
-o-	OVERHEAD POWER
-x-	BARBED WIRE FENCE
-⊖-	CHAIN LINK FENCE
	GUARDRAIL
	EDGE OF ASPHALT

LINE TABLE		
NUMBER	BEARING	DISTANCE
L1	S 23°02'23" W	14.12'
L4	N 68°40'56" E	92.66'

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TBPLS Licensed Surveying Firm No 10106502

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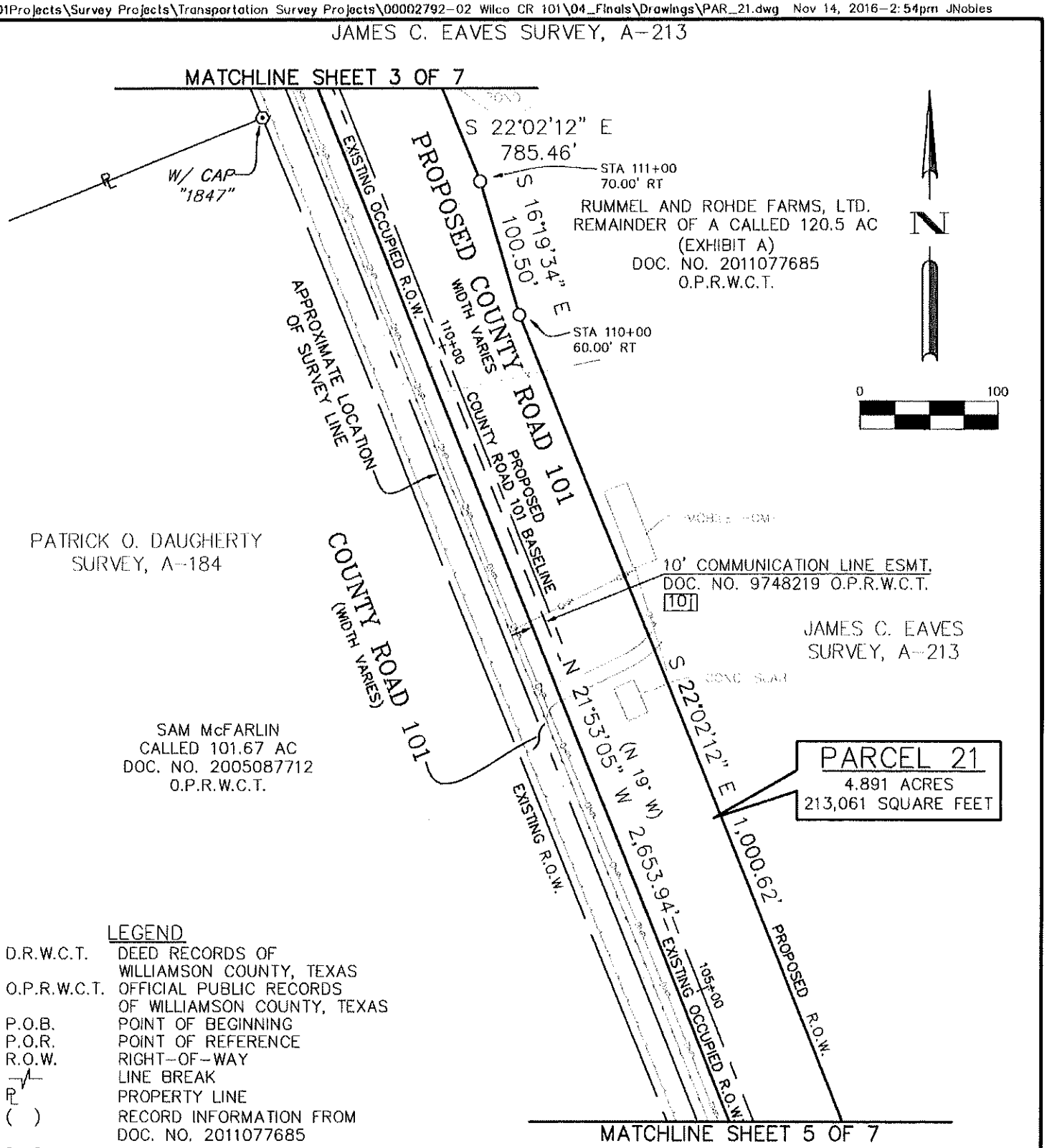
PARCEL PLAT
SHOWING PARCEL 21
4.891 ACRES (213,061 S.F.)
COUNTY ROAD 101
WILLIAMSON COUNTY

Scale:	Job No.:	Date:	Page:
1"=100'	2792-02	11/14/2016	3 of 7



LEGEND

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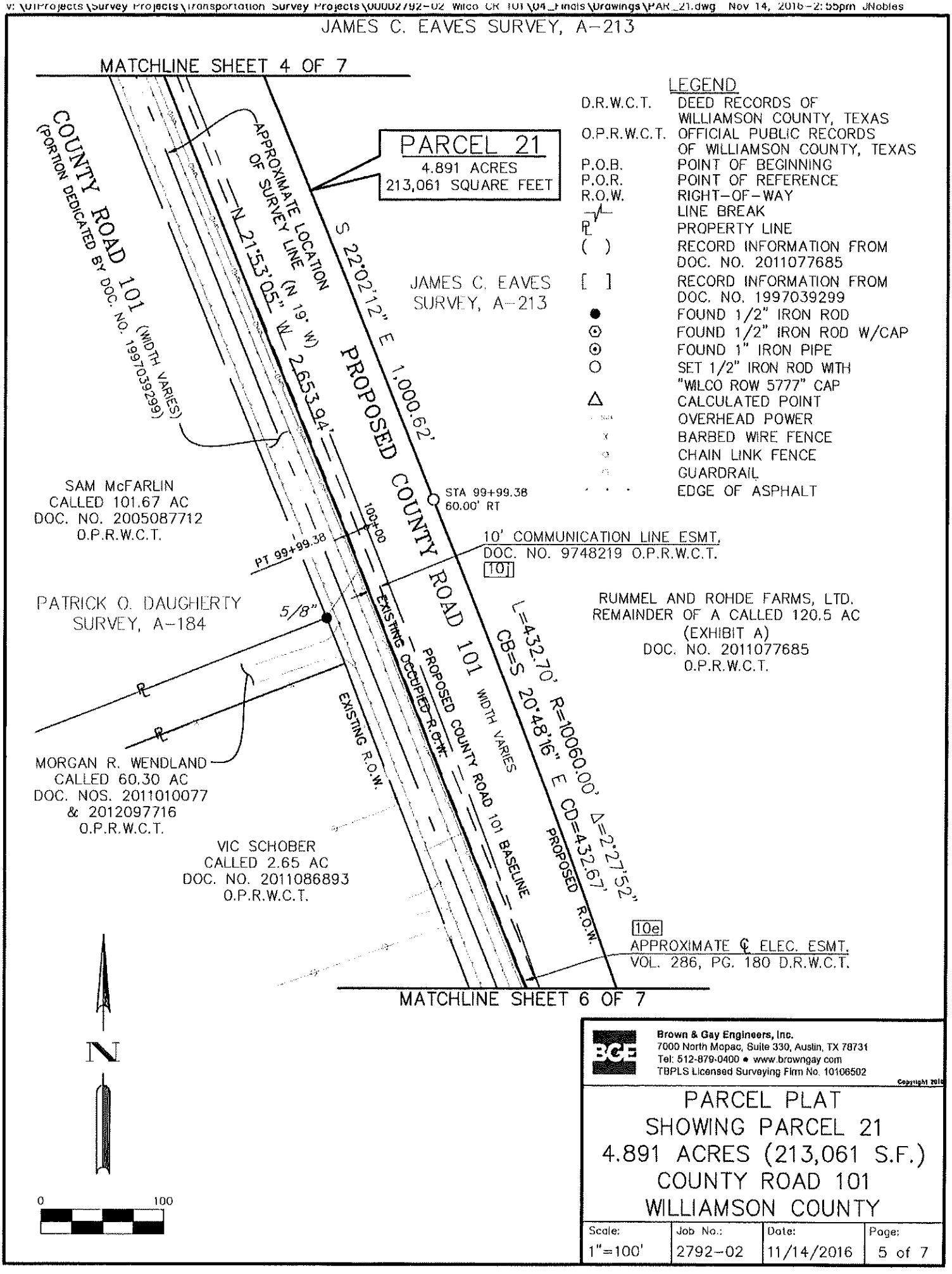

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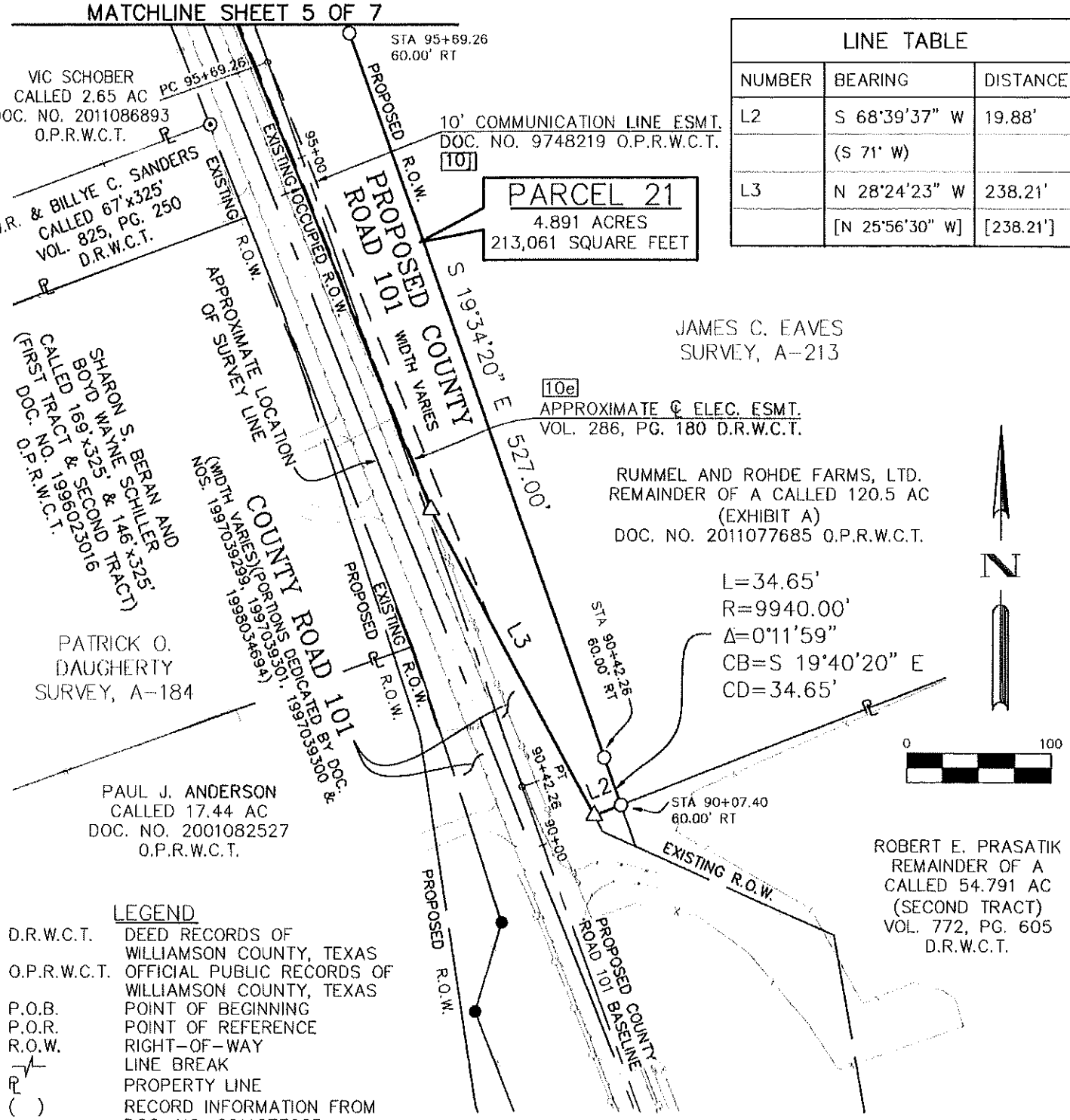
JAMES C. EAVES SURVEY, A-213



LINE TABLE		
NUMBER	BEARING	DISTANCE
L2	S 68°39'37" W	19.88'
	(S 71° W)	
L3	N 28°24'23" W	238.21'
	[N 25°56'30" W]	[238.21']

LEGEND

D.R.W.C.T.	DEED RECORDS OF WILLIAMSON COUNTY, TEXAS
O.P.R.W.C.T.	OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
P.O.B.	POINT OF BEGINNING
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RESTRICTIVE COVENANT AND EASEMENT NOTES:

THIS SURVEY WAS MADE IN RELIANCE UPON THAT CERTAIN COMMITMENT FOR TITLE INSURANCE ISSUED BY TITLE RESOURCES GUARANTY COMPANY AND COUNTERSIGNED BY INDEPENDENCE TITLE UNDER G.F. NUMBER 1622754-GTN, DATED EFFECTIVE JULY 08, 2016 AND ISSUED ON JULY 19, 2016.

10e. ELECTRIC TRANSMISSION AND/OR DISTRIBUTION LINE(S) EASEMENT GRANTED TO TEXAS POWER & LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 286, PAGE 180, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, AS SHOWN HEREON.

10f. ELECTRIC TRANSMISSION AND/OR DISTRIBUTION LINE(S) EASEMENT GRANTED TO TEXAS POWER & LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 342, PAGE 7, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT CANNOT BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10g. ELECTRIC TRANSMISSION AND/OR DISTRIBUTION LINE(S) EASEMENT GRANTED TO TEXAS POWER & LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 391, PAGE 158, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT CANNOT BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10h. EASEMENT FOR FLOODWATER RETARDING STRUCTURE GRANTED TO BRUSHY CREEK WATER CONTROL AND IMPROVEMENT DISTRICT NO. 1 BY INSTRUMENT RECORDED IN VOLUME 520, PAGE 195, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT CANNOT BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10i. PIPELINE EASEMENT GRANTED TO KOCH REFINING COMPANY BY INSTRUMENT RECORDED IN VOLUME 1792, PAGE 92, OFFICIAL RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

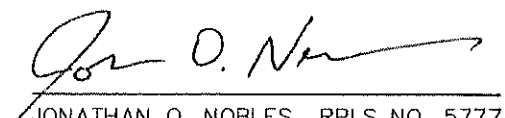
10j. COMMUNICATION CABLE(S) EASEMENT GRANTED TO GTE SOUTHWEST INCORPORATED BY INSTRUMENT RECORDED IN DOCUMENT NO. 9748219, OFFICIAL RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, AS SHOWN HEREON.

10k. TERMS, CONDITIONS, AND STIPULATIONS IN THAT CERTAIN PUBLIC UTILITY AND ACCESS EASEMENT AGREEMENT RECORDED IN DOCUMENT NO. 2011007316, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT CANNOT BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10i. TERMS, CONDITIONS, AND STIPULATIONS IN THAT CERTAIN DEVELOPMENT EASEMENT AGREEMENT RECORDED IN DOCUMENT NO. 2010063253, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

GENERAL NOTES:

1. BEARING ORIENTATION IS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD-83, CENTRAL ZONE 4203. SCALE FACTOR = 1.00012352
2. A SEPARATE METES AND BOUNDS DESCRIPTION OF EVEN DATE WAS PREPARED IN CONJUNCTION WITH THIS SKETCH.
3. FENCES ROADS & UTILITIES SHOWN WERE LOCATED ON THE GROUND. AERIAL IMAGERY WAS USED TO APPROXIMATE LOCATIONS OF OTHER IMPROVEMENTS SHOWN HEREON.



JONATHAN O. NOBLES RPLS NO. 5777
BROWN & GAY ENGINEERS, INC.
7000 NORTH MOPAC, SUITE 330
AUSTIN, TEXAS 78731
TELEPHONE: (512) 879-0400

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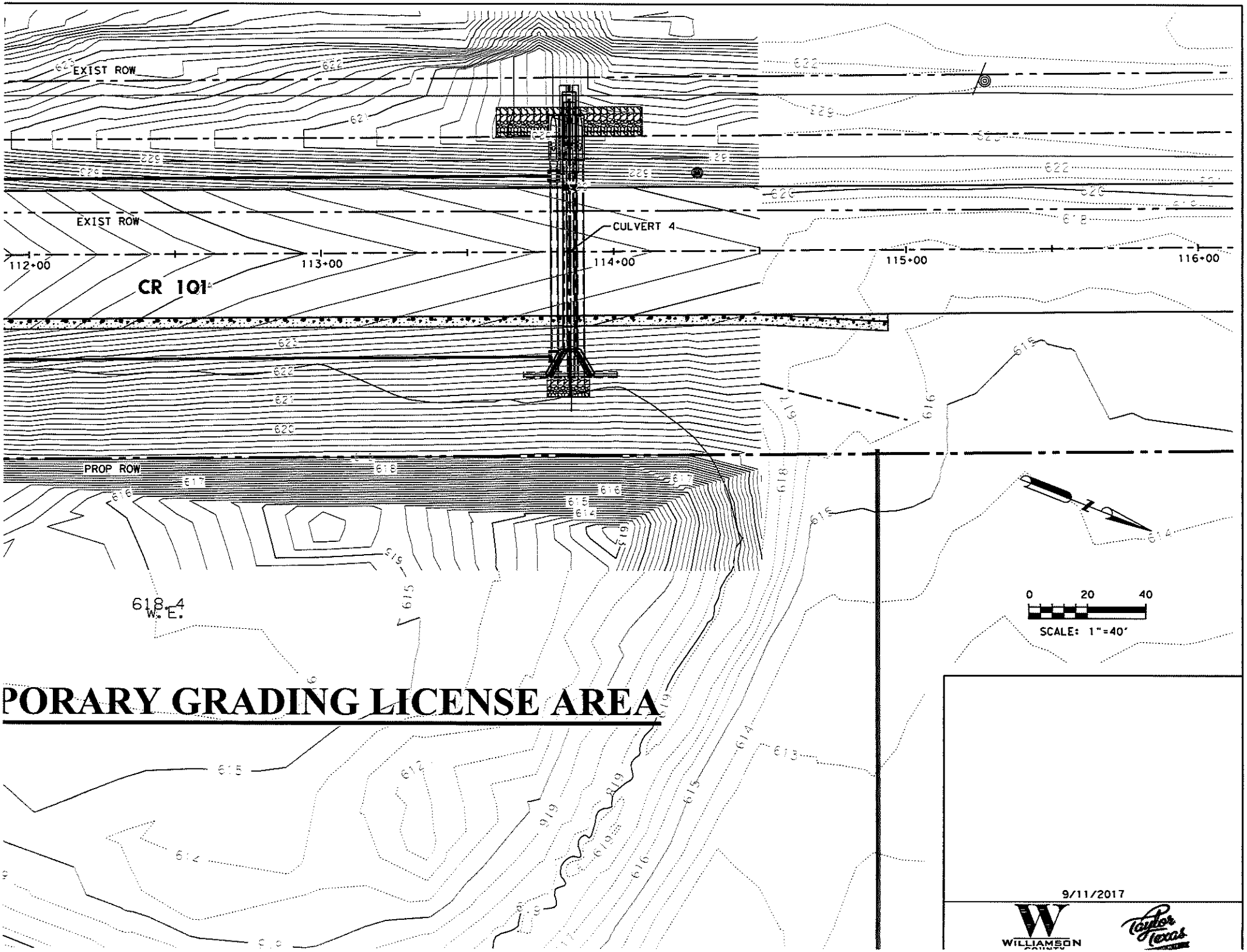


PORARY GRADING LICENSE AREA

9/11/2017

WILLIAMSON COUNTY

Taylor Texas

EXHIBIT "C"

This will be signed at closing

Parcel 21

DEED
County Road 101 Right of Way

THE STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

NOW, THEREFORE, KNOW ALL BY THESE PRESENTS:

That RUMMEL AND ROHDE FARMS, LTD., hereinafter referred to as Grantor, whether one or more, for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration to Grantor in hand paid by Williamson County, Texas, the receipt and sufficiency of which is hereby acknowledged, and for which no lien is retained, either expressed or implied, have this day Sold and by these presents do Grant, Bargain, Sell and Convey unto WILLIAMSON COUNTY, TEXAS, all that certain tract or parcel of land lying and being situated in the County of Williamson, State of Texas, along with any improvements thereon, being more particularly described as follows:

> All of that certain 4.891 acre (213,061 Sq. Ft.) tract of land in the James C. Eaves Survey, Abstract No. 213, Williamson County, Texas; being more fully described by metes and bounds in Exhibit "A", attached hereto and incorporated herein (**Parcel 21**)

SAVE AND EXCEPT, HOWEVER, it is expressly understood and agreed that Grantor is retaining title to the following improvements located on the property described in said Exhibit "A" to wit: NONE

RESERVATIONS FROM AND EXCEPTIONS TO CONVEYANCE AND WARRANTY:

Visible and apparent easements not appearing of record;

Any discrepancies, conflicts, or shortages in area or boundary lines or any encroachments or any overlapping of improvements which a current survey would show;

Easements, restrictions, reservations, covenants, conditions, oil and gas leases, mineral severances, and encumbrances for taxes and assessments (other than liens and conveyances) presently of record in the Official Public Records of Williamson County, Texas, that affect the property, but only to the extent that said items are still valid and in force and effect at this time.

Grantor reserves all of the oil, gas and other minerals in and under the land herein conveyed but waives all rights of ingress and egress to the surface thereof for the purpose of exploring, developing, mining or drilling or pumping the same; provided, however, that operations for exploration or recovery of any such minerals shall be permissible so long as all surface operations in connection therewith are located at a point outside the acquired parcel and upon the condition that none of such operations shall be conducted so near the surface of said land as to interfere with the intended use thereof or in any way interfere with, jeopardize, or endanger the facilities of Williamson County, Texas or create a hazard to the public users thereof; it being intended, however, that nothing in this reservation shall affect the title and the rights of Grantee to take and use without additional compensation any, stone, earth, gravel, caliche, iron ore, gravel or any other road building material upon, in and under said land for the construction and maintenance of CR 101.

TO HAVE AND TO HOLD the property herein described and herein conveyed together with all and singular the rights and appurtenances thereto in any wise belonging unto Williamson County, Texas and its assigns forever; and Grantor does hereby bind itself, its heirs, executors, administrators, successors and assigns to Warrant and Forever Defend all and singular the said premises herein conveyed unto Williamson County, Texas and its assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof.

This deed is being delivered in lieu of condemnation.

IN WITNESS WHEREOF, this instrument is executed on this the ____ day of _____, 2017.

[signature pages follow]

GRANTOR:

RUMMEL AND ROHDE FARMS, LTD.

By: Rummel & Rohde Management LLC,
its General Partner

By:_____
Joanne A. Rummel, Manager

By:_____
Ava Rohde, Manager

ACKNOWLEDGMENT

STATE OF TEXAS §
§
COUNTY OF _____ §

This instrument was acknowledged before me on this the ____ day of _____, 2017 by Joanne A. Rummel and Ava Rohde, in the capacity and for the purposes and consideration recited therein.

_____
Notary Public, State of Texas

PREPARED IN THE OFFICE OF:

Sheets & Crossfield, P.C.
309 East Main
Round Rock, Texas 78664

GRANTEE'S MAILING ADDRESS:

Williamson County, Texas
Attn: County Auditor
710 Main Street, Suite 101
Georgetown, Texas 78626

AFTER RECORDING RETURN TO:

Commissioners Court - Regular Session **23.**

Meeting Date: 10/17/2017

CR 101 Contract

Submitted For: Charlie Crossfield **Submitted By:** Charlie Crossfield, Road Bond

Department: Road Bond

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on a Real Estate contract with John and Mary Bigon for right of way needed on CR 101; Road Bond Project Funding Source- P269

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Bigon Contract

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Charlie Crossfield		Started On: 10/12/2017 09:15 AM
Final Approval Date: 10/12/2017		

REAL ESTATE CONTRACT
CR 101 Right of Way—Parcel 4

THIS REAL ESTATE CONTRACT ("Contract") is made by JOHN BIGON and MARY BIGON (referred to in this Contract as "Seller") and WILLIAMSON COUNTY, TEXAS (referred to in this Contract as "Purchaser"), upon the terms and conditions set forth in this Contract.

ARTICLE I
PURCHASE AND SALE

By this Contract, Seller sells and agrees to convey, and Purchaser purchases and agrees to pay for, the tract(s) of land described as follows:

> All of that certain 3.493 acre (152,136 Sq. Ft.) tract of land in the James C. Eaves Survey, Abstract No. 213, Williamson County, Texas; being more fully described by metes and bounds in Exhibit "A", attached hereto and incorporated herein (**Parcel 4A**);

together with all and singular the rights and appurtenances pertaining to the property, including any right, title and interest of Seller in and to adjacent streets, alleys or rights-of-way (all of such real property, rights, and appurtenances being referred to in this Contract as the "Property"), and any improvements situated on and attached to the Property described in Exhibit "A" not otherwise agreed herein to be retained by Seller, for the consideration and upon and subject to the terms, provisions, and conditions set forth below.

ARTICLE II
PURCHASE PRICE

Purchase Price

2.01. The Purchase Price for the Property, any improvements on the Property, and any damage to or cost of cure for the remaining property of Seller shall be the sum of FIFTY THOUSAND and 00/100 Dollars ($50,000.00).

Payment of Purchase Price

2.02. The Purchase Price shall be payable in cash at the Closing.

Additional Compensation and Special Provisions

2.03. As additional compensation for the acquisition of the Property, within sixty (60) days after Purchaser provides notice of Final Completion of construction contract for Purchaser's proposed realignment of the CR 101 roadway facilities upon the Property, the Purchaser shall execute and cause to be recorded a deed (the "Deed") to Seller conveying fee simple title in and to the property described in Exhibits "B" and "C" attached hereto and incorporated herein. The form of the Deed shall be as shown in Exhibit "D" attached hereto and incorporated herein.

Prior to the completion of the conveyance described in this paragraph Purchaser shall cause any existing roadway improvements to be obliterated and removed, and shall fill, cut and shape the property in the locations and according to the plans and specifications as shown in Exhibit "E" attached hereto and incorporated herein.

These obligations shall survive the Closing of this Contract.

ARTICLE III
PURCHASER'S OBLIGATIONS

Conditions to Purchaser's Obligations

3.01. The obligations of Purchaser hereunder to consummate the transactions contemplated hereby are subject to the satisfaction of each of the following conditions (any of which may be waived in whole or in part by Purchaser at or prior to the Closing).

Miscellaneous Conditions

3.02. Seller shall have performed, observed, and complied with all of the covenants, agreements, and conditions required by this Contract to be performed, observed, and complied with by Seller prior to or as of the closing.

ARTICLE IV
REPRESENTATIONS AND WARRANTIES OF SELLER

Seller hereby represents and warrants to Purchaser as follows, which representations and warranties shall be deemed made by Seller to Purchaser also as of the Closing Date, to the best of Seller's current actual knowledge:

(1) There are no parties in possession of any portion of the Property as lessees, tenants at sufferance, or trespassers, other than as previously disclosed to Purchaser;

(2) Seller has complied with all applicable laws, ordinances, regulations, statutes, rules and restrictions relating to the Property, or any part thereof;

The Property herein is being conveyed to Purchaser under threat of condemnation.

ARTICLE V
CLOSING

Closing Date

5.01. The Closing shall be held at the office of Independence Title Company on or before November 15th, 2017, or at such time, date, and place as Seller and Purchaser may agree upon, or within 10 days after the completion of any title curative matters if necessary for items as shown on the Title Commitment or in the contract (which date is herein referred to as the "Closing Date").

Seller's Obligations at Closing

5.02. At the Closing Seller shall:

(1) Deliver to Purchaser a duly executed and acknowledged Deed conveying good and indefeasible title to Williamson County, Texas in fee simple to all of the Property described in Exhibit "A", free and clear of any and all liens and restrictions, except for the following:

(a) General real estate taxes for the year of closing and subsequent years not yet due and payable;

(b) Any exceptions approved by Purchaser pursuant to Article III hereof; and

(c) Any exceptions approved by Purchaser in writing.

The Deed shall be in the form as shown in Exhibit "F" attached hereto and incorporated herein.

(2) Deliver to Purchaser a Texas Owner's Title Policy at Purchaser's sole expense, issued by Title Company, in Grantee's favor in the full amount of the Purchase Price, insuring Purchaser's contracted interests in and to the Property subject only to those title exceptions listed herein, such other exceptions as may be approved in writing by Purchaser, and the standard printed exceptions contained in the usual form of Texas Owner's Title Policy, provided, however:

(a) The boundary and survey exceptions shall be deleted;

(b) The exception as to restrictive covenants shall be endorsed "None of Record", if applicable; and

(c) The exception as to the lien for taxes shall be limited to the year of Closing and shall be endorsed "Not Yet Due and Payable".

(d) Deliver to Purchaser possession of the Property if not previously done.

Purchaser's Obligations at Closing

5.03. At the Closing, Purchaser shall:

(a) Pay the cash portion of the Purchase Price.

Prorations

5.04. General real estate taxes for the then current year relating to the Property shall be prorated as of the Closing Date and shall be adjusted in cash at the closing. If the Closing shall occur before the tax rate is fixed for the then current year, the apportionment of taxes shall be upon the basis of the tax rate for the next preceding year applied to the latest assessed valuation. Agricultural roll-back taxes, if any, shall be paid by Purchaser.

Closing Costs

5.05. All costs and expenses of closing in consummating the sale and purchase of the Property shall be borne and paid as follows:

(1) Owner's Title Policy and survey to be paid by Purchaser.

(2) Deed, tax certificates, and title curative matters, if any, paid by Purchaser.

(3) All other closing costs shall be paid by Purchaser.

(4) Attorney's fees paid by each respectively.

ARTICLE VI
BREACH BY SELLER

In the event Seller shall fail to fully and timely perform any of its obligations hereunder or shall fail to consummate the sale of the Property for any reason, except Purchaser's default, Purchaser may: (1) enforce specific performance of this Contract; or (2) request that the Escrow Deposit, if any, shall be forthwith returned by the title company to Purchaser.

ARTICLE VII
BREACH BY PURCHASER

In the event Purchaser should fail to consummate the purchase of the Property, the conditions to Purchaser's obligations set forth in Article III having been satisfied and Purchaser being in default and Seller not being in default hereunder, Seller shall have the right to receive the Escrow Deposit, if any, from the title company, the sum being agreed on as liquidated damages for the failure of Purchaser to perform the duties, liabilities, and obligations imposed upon it by the terms and provisions of this Contract, and Seller agrees to accept and take this cash payment as its total damages and relief and as Seller's sole remedy hereunder in such event. If no Escrow Deposit has been made then Seller shall receive the amount of $500 as liquidated damages for any failure by Purchaser.

ARTICLE VIII
MISCELLANEOUS

Notice

8.01. Any notice required or permitted to be delivered hereunder shall be deemed received when sent by United States mail, postage prepaid, certified mail, return receipt requested, addressed to Seller or Purchaser, as the case may be, at the address set forth opposite the signature of the party.

Texas Law to Apply

8.02. This Contract shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Williamson County, Texas.

Parties Bound

8.03. This Contract shall be binding upon and inure to the benefit of the parties and their respective heirs, executors, administrators, legal representatives, successors and assigns where permitted by this Contract.

Legal Construction

8.04. In case any one or more of the provisions contained in this Contract shall for any reason be held to be invalid, illegal, or unenforceable in any respect, this invalidity, illegality, or unenforceability shall not affect any other provision hereof, and this Contract shall be construed as if the invalid, illegal, or unenforceable provision had never been contained herein.

Prior Agreements Superseded

8.05. This Contract constitutes the sole and only agreement of the parties and supersedes any prior understandings or written or oral agreements between the parties respecting the within subject matter.

Time of Essence

8.06. Time is of the essence in this Contract.

Gender

8.07. Words of any gender used in this Contract shall be held and construed to include any other gender, and words in the singular number shall be held to include the plural, and vice versa, unless the context requires otherwise.

Memorandum of Contract

8.08. Upon request of either party, the parties shall promptly execute a memorandum of this Contract suitable for filing of record.

Compliance

8.09 In accordance with the requirements of Section 20 of the Texas Real Estate License Act, Purchaser is hereby advised that it should be furnished with or obtain a policy of title insurance or Purchaser should have the abstract covering the Property examined by an attorney of Purchaser's own selection.

Effective Date

8.10 This Contract shall be effective as of the date it is approved by Williamson County, Texas which date is indicated beneath the County Judge's signature below.

Counterparts

8.11 This Contract may be executed in any number of counterparts, which may together constitute the Contract. Signatures transmitted by facsimile or electronic mail may be considered effective as originals for purposes of this Contract.

[signature page follows]

SELLER:

John Bigon

Address: 12625 Hwy 79
Taylor, Tex.

Date: 10-4-17

Mary Bigon

Mary Bigon

Address: 12625 Highway 79
Taylor, Texas

Date: 10-4-17

PURCHASER:

WILLIAMSON COUNTY, TEXAS

By: _____
Dan A. Gattis
County Judge

Address: 710 Main Street, Suite 101
Georgetown, Texas 78626

Date:_____

EXHIBIT A

County: Williamson
Parcel: 4A
Highway: County Road 101

METES & BOUNDS DESCRIPTION FOR PARCEL 4A

METES & BOUNDS DESCRIPTION FOR A 3.493 ACRE (152,136 SQUARE FOOT) TRACT OF LAND SITUATED IN THE JAMES C. EAVES SURVEY, ABSTRACT NO. 213, WILLIAMSON COUNTY, TEXAS AND BEING A PORTION OF A CALLED 72.15 ACRE TRACT OF LAND AS CONVEYED TO JOHN BIGON AND WIFE, MARY BIGON BY WARRANTY DEED RECORDED IN VOLUME 558, PAGE 77 OF THE DEED RECORDS OF WILLIAMSON COUNTY, TEXAS; SAID 3.493 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS AND SHOWN ON THE ATTACHED SKETCH:

COMMENCING FOR POINT OF REFERENCE at a 1/2-inch iron rod found on the north right-of-way line of U.S. Highway 79 (width varies), same being the southerly line of the said Bigon remainder tract at the southeast corner of a previously dedicated 0.171 acre tract of land described as Parcel 44 Part 2, as conveyed to Williamson County, Texas by special warranty deed recorded in Document Number 2008006702 of the Official Public Records of Williamson County, Texas; Thence, with the north right-of-way line of said U.S. Highway 79 and the south line of said Bigon remainder tract the following four courses: 1) N 22°39'25" W, a distance of 34.21 feet to a calculated point; 2) S 71°55'04" W, a distance of 35.14 feet to a calculated point; 3) N 22°33'35" W, a distance of 36.12 feet to a calculated point, and 4) S 69°43'53" W, a distance of 63.49 feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" (NAD-83, Central Zone Grid Coordinates: N=10,176,909.94, E=3,193,641.59) set for the southeast corner and **POINT OF BEGINNING** of the herein described tract, 69.99 feet right of County Road 101 baseline station 11+18.23;

THENCE, continuing with the north right-of-way line of said U.S. Highway 79 and the south line of the said Bigon remainder tract, **S 69°43'53" W**, a distance of **76.81** feet to a calculated point on the east right-of-way line of County Road 101 (80 feet wide), as previously dedicated as Parcel 43, Part 1 in Document Number 2008087669 of the Official Public Records of Williamson County, Texas for the southwest corner of the herein described tract;

THENCE, with the east right-of-way line of said County Road 101 and the west line of said Bigon remainder tract, **N 22°40'54" W**, a distance of **122.37** feet to a calculated point of curvature of a curve to the left;

THENCE, continuing with the east right-of-way line of said County Road 101 and the west line of said Bigon remainder tract, along said curve to the left, an arc distance of **182.71** feet, having a radius of **540.00** feet, a central angle of **19°23'12"** and a chord which bears **N 32°22'30" W**, a distance of **181.84** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set at the intersection with the proposed west right-of-way line of County Road 101, 60.00 feet left of County Road 101 baseline station 14+14.15, from which a TXDOT Type II monument bears N 51°46'53" W, a distance of 182.21 feet;

THENCE, departing the east right-of-way of said County Road 101 and over and across said Bigon remainder tract, along a curve to the left, an arc distance of **426.47** feet, having a radius of **1,355.00** feet, a central angle of **18°02'00"** and a chord which bears **N 33°30'23" W**, a distance of **424.72** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set at a point of tangency, 60.00 feet left of County Road 101 baseline station 18+59.51;

THENCE, continuing over and across said Bigon remainder tract, **N 42°31'23" W,** a distance of **601.68** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set on the north line of said Bigon remainder tract, same being the south line of a called 74.3682 acre tract of land as conveyed to Fuessel Holdings LLC by special warranty deed recorded in Document Number 2012081610 of the Official Public Records of Williamson County, Texas, for the northwest corner of the herein described tract, 60.00 feet left of County Road 101 baseline station 24+61.19;

THENCE, with the north line of said Bigon remainder tract and the south line of said Fuessel Holdings tract, **N 68°33'57" E,** a distance of **128.61** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set for the northeast corner of the herein described tract, 60.00 feet right County Road 101 baseline station 24+14.91, from which a 1/2-inch iron rod found for the common east corner of said Bigon remainder tract and the Fuessel Holdings tract bears N 68° 35' 57" E, a distance of 1,910.07 feet;

THENCE, departing the north line of said Bigon remainder tract and the south line of said Fuessel Holdings tract and over and across said Bigon remainder tract, **S 42°31'23" E,** a distance of **555.40** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set at a point of curvature of a curve to the right, 60.00 feet right of County Road 101 baseline station 18+59.51;

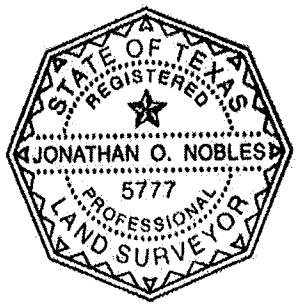
THENCE, continuing over and across said Bigon remainder tract, along said curve to the right, an arc distance of **464.08** feet, having a radius of **1,475.00** feet, a central angle of **18°01'38"** and a chord which bears **S 33°30'34" E,** a distance of **462.17** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set for corner;

THENCE, continuing over and across said Bigon remainder tract, **S 24°29'45" E,** a distance of **172.05** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set for corner at a non-tangent point of curvature of a curve to the right;

THENCE, continuing over and across said Bigon remainder tract, along said curve to the right, an arc distance of **138.07** feet, having a radius of **1,485.00** feet, a central angle of **5°19'37"** and a chord which bears **S 15°10'45" E,** a distance of **138.02** feet to the **POINT OF BEGINNING** and containing 3.493 acres (152,136 square feet) of land, more or less.

Bearing orientation is based on the Texas State Plane Coordinate System NAD-83, Central Zone 4203. All distances are surface and may be converted to grid by dividing by a scale factor of 1.00012352.

I hereby certify that these notes were prepared by BGE from a survey made on the ground under my supervision on February 26, 2016 and are true and correct to the best of my knowledge. A sketch accompanies this description.



Jonathan O. Nobles RPLS No. 5777
Brown & Gay Engineers, Inc.
7000 North Mopac, Suite 330
Austin, Texas 78731
Telephone: (512) 879-0400
TBPLS Licensed Surveying Firm No. 10106502

9/1/2016
Date

Client: Williamson County
Date: August 31, 2016
Job No: 2792-00

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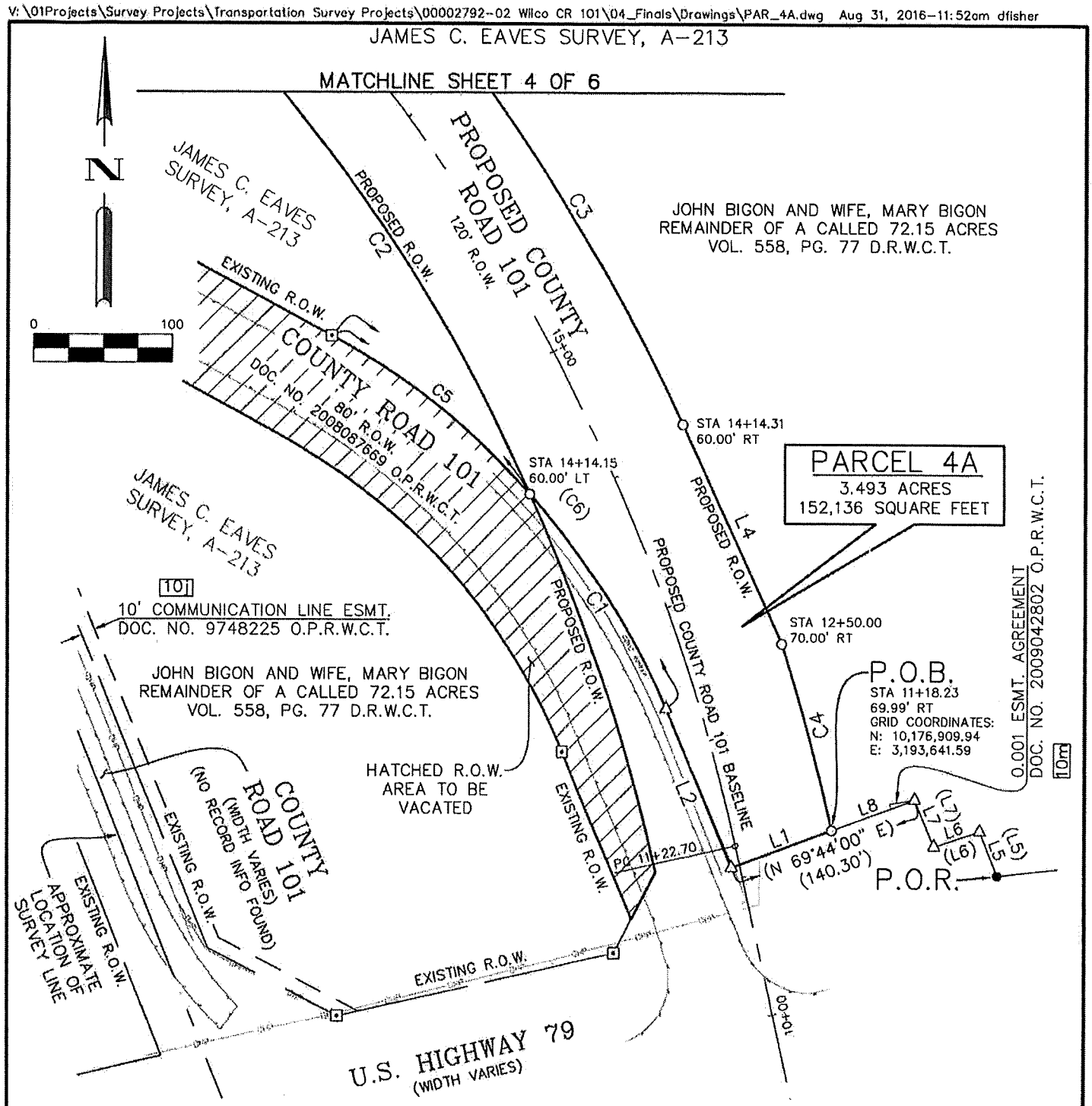

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TBPLS Licensed Surveying Firm No. 10108502

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PARCEL PLAT
SHOWING PARCEL 4A
3.493 ACRES (152,136 S.F.)
COUNTY ROAD 101
WILLIAMSON COUNTY

Scale:	Job No.:	Date:	Page:
1"=100'	2792-02	08/31/2016	3 of 6

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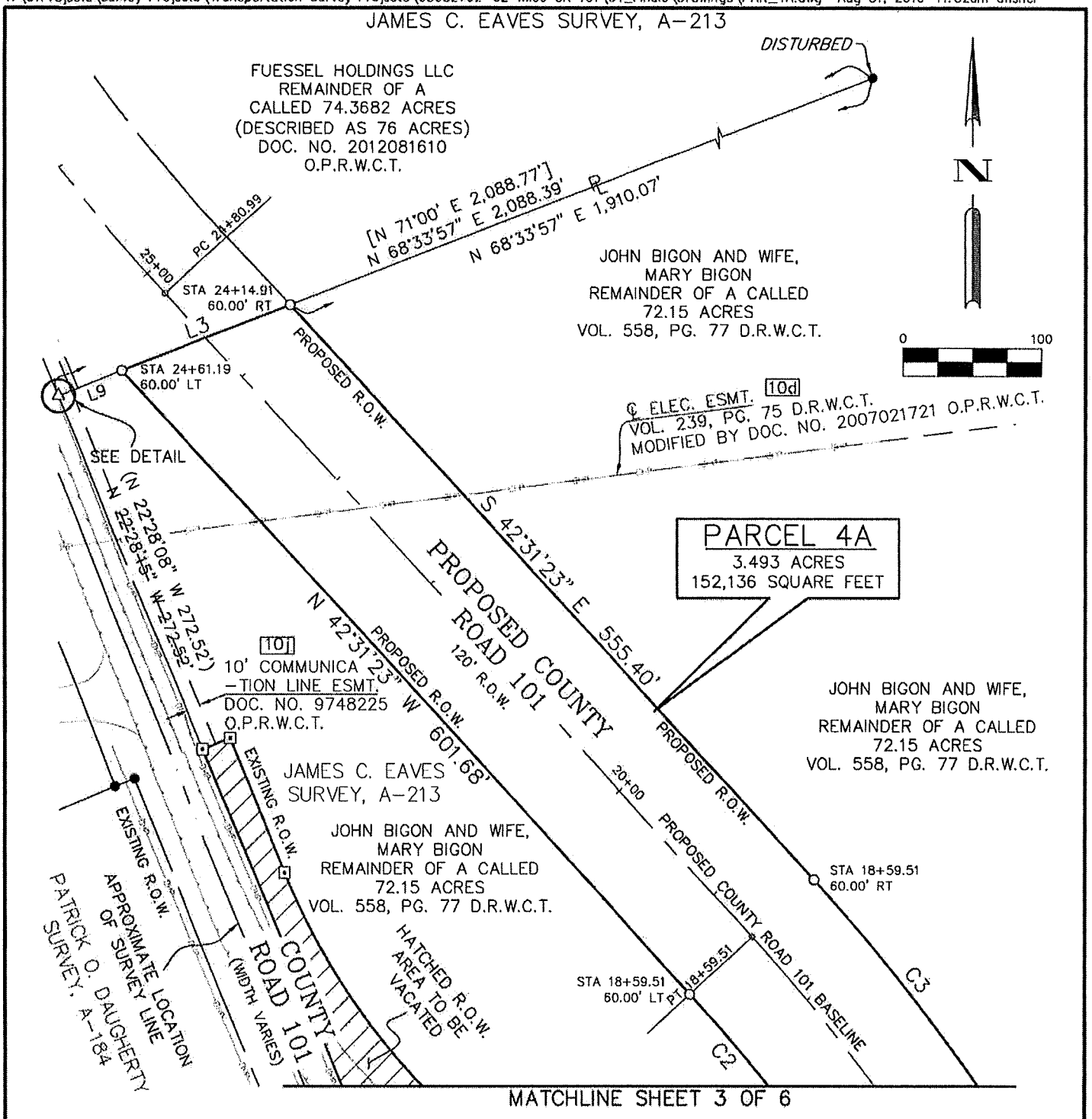

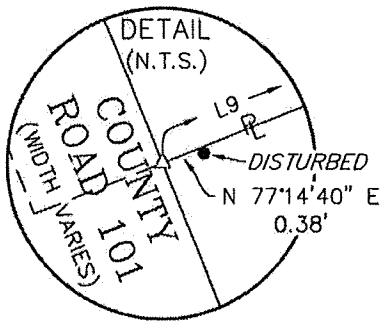

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PARCEL PLAT
SHOWING PARCEL 4A
3.493 ACRES (152,136 S.F.)
COUNTY ROAD 101
WILLIAMSON COUNTY

Scale:	Job No.:	Date:	Page:
1"=100'	2792-02	08/31/2016	4 of 6

RESTRICTIVE COVENANT AND EASEMENT NOTES:

THIS SURVEY WAS MADE IN RELIANCE UPON THAT CERTAIN COMMITMENT FOR TITLE INSURANCE ISSUED BY TITLE RESOURCES GUARANTY COMPANY AND COUNTERSIGNED BY INDEPENDENCE TITLE UNDER G.F. NO. 1622089-GTN, DATED EFFECTIVE JUNE 14, 2016 AND ISSUED ON JUNE 23, 2016.

10c. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 238, PAGE 543, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT, AS EASEMENT NOW LIES WITHIN DEDICATED RIGHT-OF-WAY.

10d. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER & LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 239, PAGE 75, DEED RECORDS, WILLIAMSON COUNTY, TEXAS AS MODIFIED BY EASEMENT AND AGREEMENT RECORDED IN DOCUMENT NO. 2007021721, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, AS SHOWN HEREON.

10e. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER & LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 239, PAGE 80, DEED RECORDS, WILLIAMSON COUNTY, TEXAS AS MODIFIED BY EASEMENT AND AGREEMENT RECORDED IN DOCUMENT NO. 2007021720, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT.

10f. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 303, PAGE 182, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT IS NOT ABLE TO BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10g. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 348, PAGE 384, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT.

10h. WATER LINE(S) EASEMENT GRANTED TO JONAH WATER SUPPLY CORPORATION BY INSTRUMENT RECORDED IN VOLUME 563, PAGE 504, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT IS NOT ABLE TO BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10i. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 640, PAGE 91, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT.

10j. COMMUNICATION LINE(S) EASEMENT GRANTED TO GTE SOUTHWEST, INC. BY INSTRUMENT RECORDED IN DOCUMENT NO. 9748225, OFFICIAL RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT, AS SHOWN HEREON.

10k. PUBLIC UTILITY AND ACCESS EASEMENT AGREEMENT GRANTED TO JONAH WATER SPECIAL UTILITY DISTRICT BY INSTRUMENT RECORDED IN DOCUMENT NO 2008042851, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT IS NOT ABLE TO BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10l. TERMS, CONDITIONS, AND STIPULATIONS OF THAT CERTAIN RESOLUTION NO. 2006-27R OF THE CITY OF HUTTO, RECORDED IN DOCUMENT NO'S. 2006045188 AND 2006042885, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

10m. TERMS, CONDITIONS, AND STIPULATIONS OF THAT CERTAIN EASEMENT AGREEMENT, RECORDED IN DOCUMENT NO. 2009042802, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT, AS SHOWN HEREON.

10n. TERMS, CONDITIONS, AND STIPULATIONS OF THAT CERTAIN AGREEMENT REGARDING ORDINANCE 2012-19, RECORDED IN DOCUMENT NO. 2012057357, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

10o. TERMS, CONDITIONS, AND STIPULATIONS OF THAT CERTAIN DEVELOPMENT AGREEMENT, RECORDED IN DOCUMENT NO. 2012057885, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

BGE
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7000 North Mopac, Suite 330, Austin, TX 78731
Tel: 512-879-0400 • www.browngay.com
TBPLS Licensed Surveying Firm No 10106502

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PARCEL PLAT
SHOWING PARCEL 4A
3.493 ACRES (152,136 S.F.)
COUNTY ROAD 101
WILLIAMSON COUNTY

Scale:	Job No.:	Date:	Page:
1"=100'	2792-02	08/31/2016	5 of 6

LINE TABLE		
NO.	BEARING	DISTANCE
L1	S 69°43'53" W	76.81'
L2	N 22°40'54" W	122.37'
(L2)	(N 22°40'47" W)	(122.37')
L3	N 68°33'57" E	128.61'
L4	S 24°29'45" E	172.05'

LINE TABLE		
NO.	BEARING	DISTANCE
L5	N 22°39'25" W	34.21'
(L5)	(N 22°39'18" W)	(34.21')
L6	S 71°55'04" W	35.14'
(L6)	(S 71°55'11" W)	(35.14')

LINE TABLE		
NO.	BEARING	DISTANCE
L7	N 22°33'35" W	36.12'
(L7)	(N 22°33'28" W)	(36.12')
L8	S 69°43'53" W	63.49'
L9	N 68°33'57" E	49.70'

CURVE TABLE					
NUMBER	ARC LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE
C1	182.71'	540.00'	19°23'12"	N 32°22'30" W	181.84'
C2	426.47'	1,355.00'	18°02'00"	N 33°30'23" W	424.72'
C3	464.08'	1,475.00'	18°01'38"	S 33°30'34" E	462.17'
C4	138.07'	1,485.00'	5°19'37"	S 15°10'45" E	138.02'
C5	183.09'	540.00'	19°25'35"	S 51°46'53" E	182.21'
(C6)	(365.81')	(540.00')	(38°48'49")	(S 42°05'11" E)	(358.85')

LEGEND

D.R.W.C.T.	DEED RECORDS OF WILLIAMSON COUNTY, TEXAS
ELEC.	ELECTRIC
ESMT.	EASEMENT
N.T.S.	NOT TO SCALE
O.P.R.W.C.T.	OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
P.O.B.	POINT OF BEGINNING
P.O.R.	POINT OF REFERENCE
R.O.W.	RIGHT-OF-WAY
[ ]	RECORD INFORMATION FROM VOL. 558, PG. 77
( )	RECORD INFORMATION FROM DOC. NOS. 2008087669 & 2008006702
	LINE BREAK
	PROPERTY LINE
●	FOUND 1/2" IRON ROD
⊡	FOUND TXDOT TYPE II MONUMENT
○	SET 1/2" IRON ROD WITH "WILCO ROW 5777" CAP
△	CALCULATED POINT
	OVERHEAD POWER
	EDGE OF ASPHALT

GENERAL NOTES:

1. BEARING ORIENTATION IS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD-83, CENTRAL ZONE 4203. SCALE FACTOR = 1.00012352
2. A SEPARATE METES AND BOUNDS DESCRIPTION OF EVEN DATE WAS PREPARED IN CONJUNCTION WITH THIS SKETCH.
3. FENCES ROADS & UTILITIES SHOWN WERE LOCATED ON THE GROUND. AERIAL IMAGERY WAS USED TO APPROXIMATE LOCATIONS OF OTHER IMPROVEMENTS SHOWN HEREON.

STATE OF TEXAS
REGISTERED
JONATHAN O. NOBLES
5777
PROFESSIONAL
LAND SURVEYOR

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COUNTY ROAD 101
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EXHIBIT B

County: Williamson
Parcel: 4B (R.O.W. Vacation)
Highway: County Road 101

METES & BOUNDS DESCRIPTION FOR PARCEL 4B

METES & BOUNDS DESCRIPTION FOR A 1.440 ACRE (62,728 SQUARE FOOT) TRACT OF LAND SITUATED IN THE JAMES C. EAVES SURVEY, ABSTRACT NO. 213, WILLIAMSON COUNTY, TEXAS AND BEING A PORTION OF THE RIGHT-OF-WAY OF COUNTY ROAD 101, AS CONVEYED TO WILLIAMSON COUNTY AS A 2.260 ACRE TRACT OF LAND DESCRIBED AS PARCEL 43, PART 1, BY SPECIAL WARRANTY DEED RECORDED IN DOCUMENT NO. 2008087669 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS; SAID 1.440 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS AND SHOWN ON THE ATTACHED SKETCH:

COMMENCING FOR POINT OF REFERENCE at a Texas Department of Transportation brass disc monument found in concrete (TXDOT, Type II monument) on the north right-of-way line of U.S. Highway 79 (width varies), at the intersecting cutback to the west right-of-way line of County Road 101, same being on a south line of a remainder tract of a portion of a called 72.15-acre tract of land as conveyed to John Bigon and wife, Mary Bigon by warranty deed recorded in Volume 558, Page 77 of the Deed Records of Williamson County, Texas, said remainder tract being that portion of the called 72.15-acre Bigon tract that was bisected from the original Bigon tract by the above described Parcel 43, Part 1, from which a TXDOT Type II monument found bears S 71°19'04" W, a distance of 204.43 feet; Thence, leaving the north right-of-way line of said U.S. Highway 79, and with the westerly right-of-way line of said County Road 101, N 27°19'03" E, a distance of 27.31 feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" (NAD-83, Central Zone Grid Coordinates: N=10,176,846.78, E=3,193,498.13) set, for the southwest corner and **POINT OF BEGINNING** of the herein described tract, 83.86 feet left of County Road 101 baseline station 10+88.12;

THENCE, continuing with the west right-of-way line of said County Road 101 and the east line of said Bigon remainder tract the following four (4) courses;

1) **N 22°40'54" W**, a distance of **128.56** feet to a TXDOT, Type II monument found at a point of curvature of a curve to the left;

2) Along said curve to the left, an arc distance of **311.61** feet, having a radius of **460.00** feet, a central angle of **38°48'47"** and a chord which bears **N 42°05'18" W**, a distance of **305.69** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set;

3) **N 61°29'42" W**, a distance of **199.33** feet to a TXDOT, Type II monument found at a point of curvature of a curve to the right; and

4) Along said curve to the right, an arc distance of **110.70** feet, having a radius of **540.00** feet, a central angle of **11°44'46"** and a chord which bears **N 55°37'18" W**, a distance of **110.51** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set for corner;

THENCE, with the west line of said Parcel 43, Part 1, **N 22°28'15" W**, a distance of **354.55** feet to a TXDOT, Type II monument found at the northwest corner of said Parcel 43, Part 1, on the east right-of-way line of said County Road 101, being on the original west line of said Bigons 72.15-acre tract, for the northwest corner of the herein described tract;

THENCE, with the east right-of-way line of said County Road 101 and a westerly line of said Bigon remainder tract, the following five (5) courses;

1) **N 67°37'39" E,** a distance of **20.95** feet to a TXDOT, Type II monument found at the northeast corner of said Parcel 43, Part 1, for the northeast corner of the herein described tract;

2) **S 21°55'25" E,** a distance of **102.93** feet to a TXDOT, Type II monument found at a point of curvature of a curve to the left;

3) Along said curve to the left, an arc distance of **317.41** feet, having a radius of **460.00** feet, a central angle of **39°32'07"** and a chord which bears **S 41°43'38" E,** a distance of **311.15** feet to a TXDOT, Type II monument found;

4) **S 61°29'42" E,** a distance of **199.33** feet to a TXDOT, Type II monument found at a point of curvature of a curve to the right; and

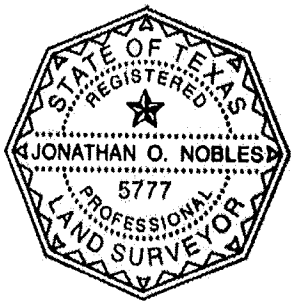
5) Along said curve to the right, an arc distance of **183.09** feet, having a radius of **540.00** feet, a central angle of **19°25'35"** and a chord which bears **S 51°46'53" E,** a distance of **182.21** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set at the intersection with the proposed west right-of-way line of County Road 101, 60.00 feet left of County Road 101 baseline station 14+14.15;

THENCE, sixty (60') feet west of and parallel with said County Road 101 baseline, along said curve to the right, an arc distance of **285.26** feet, having a radius of **1,355.00** feet, a central angle of **12°03'44"** and a chord which bears **S 18°27'31" E,** a distance of **284.74** feet to a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" set at westerly cutback of said County Road 101, 60.00 feet left of County Road 101 baseline station 11+16.13, for the southeast corner of the herein described tract;

THENCE, with the westerly cutback line to U.S. Highway 79, **S 27°19'03" W,** a distance of **37.09** feet to the **POINT OF BEGINNING** and containing 1.440 acres (62,728 square feet) of land, more or less.

Bearing orientation is based on the Texas State Plane Coordinate System NAD-83, Central Zone 4203. All distances are surface and may be converted to grid by dividing by a scale factor of 1.00012352.

I hereby certify that these notes were prepared by BGE from a survey made on the ground under my supervision on February 26, 2016 and are true and correct to the best of my knowledge. A sketch accompanies this description.



9/1/2016
Date

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TBPLS Licensed Surveying Firm No. 10106502

Client: Williamson County
Date: August 31, 2016
Job No: 2792-02

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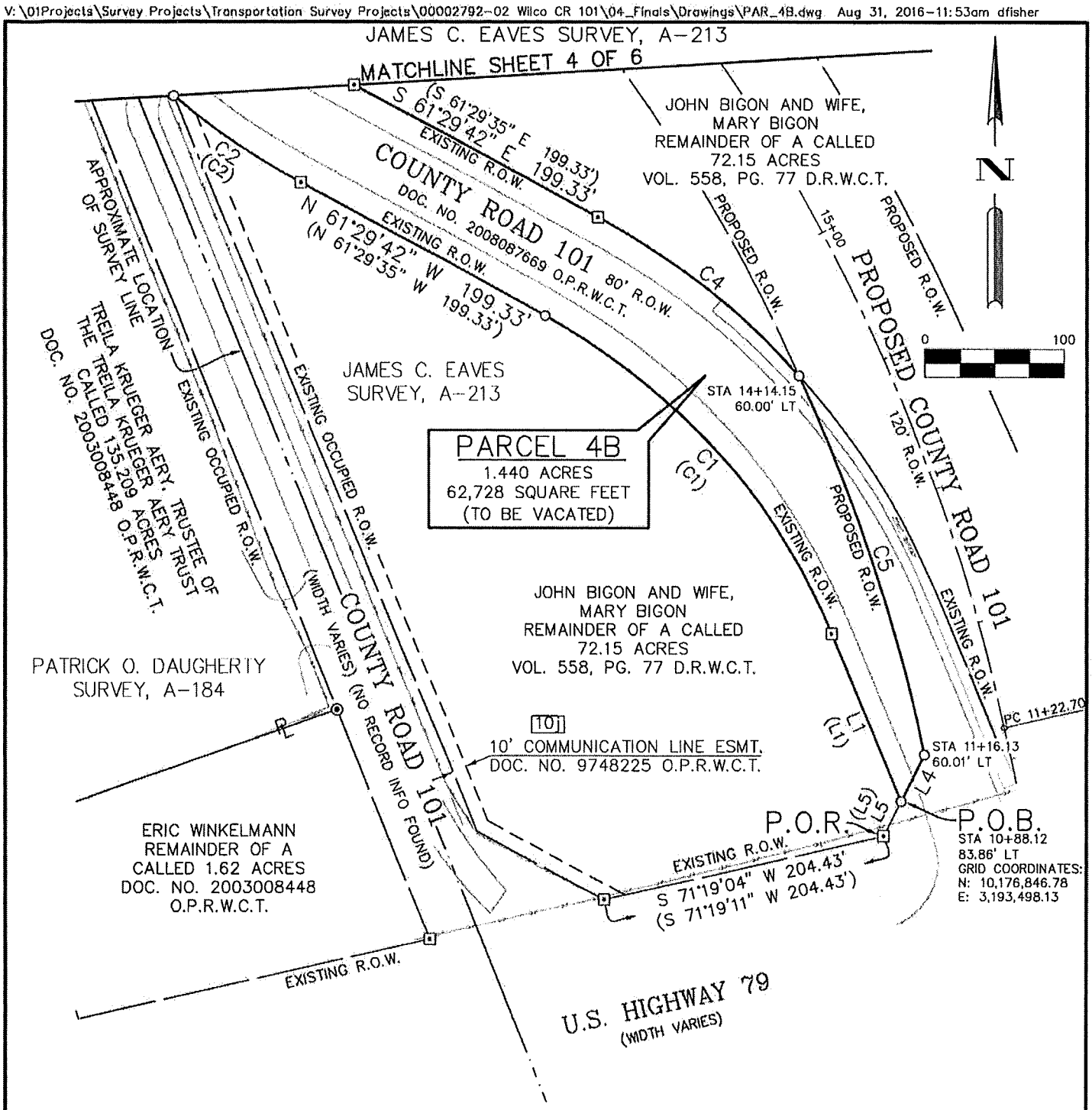

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PARCEL PLAT
SHOWING PARCEL 4B
1.440 ACRES (62,728 S.F.)
COUNTY ROAD 101
WILLIAMSON COUNTY

Scale:	Job No.:	Date:	Page:
1"=100'	2792-02	08/31/2016	3 of 6

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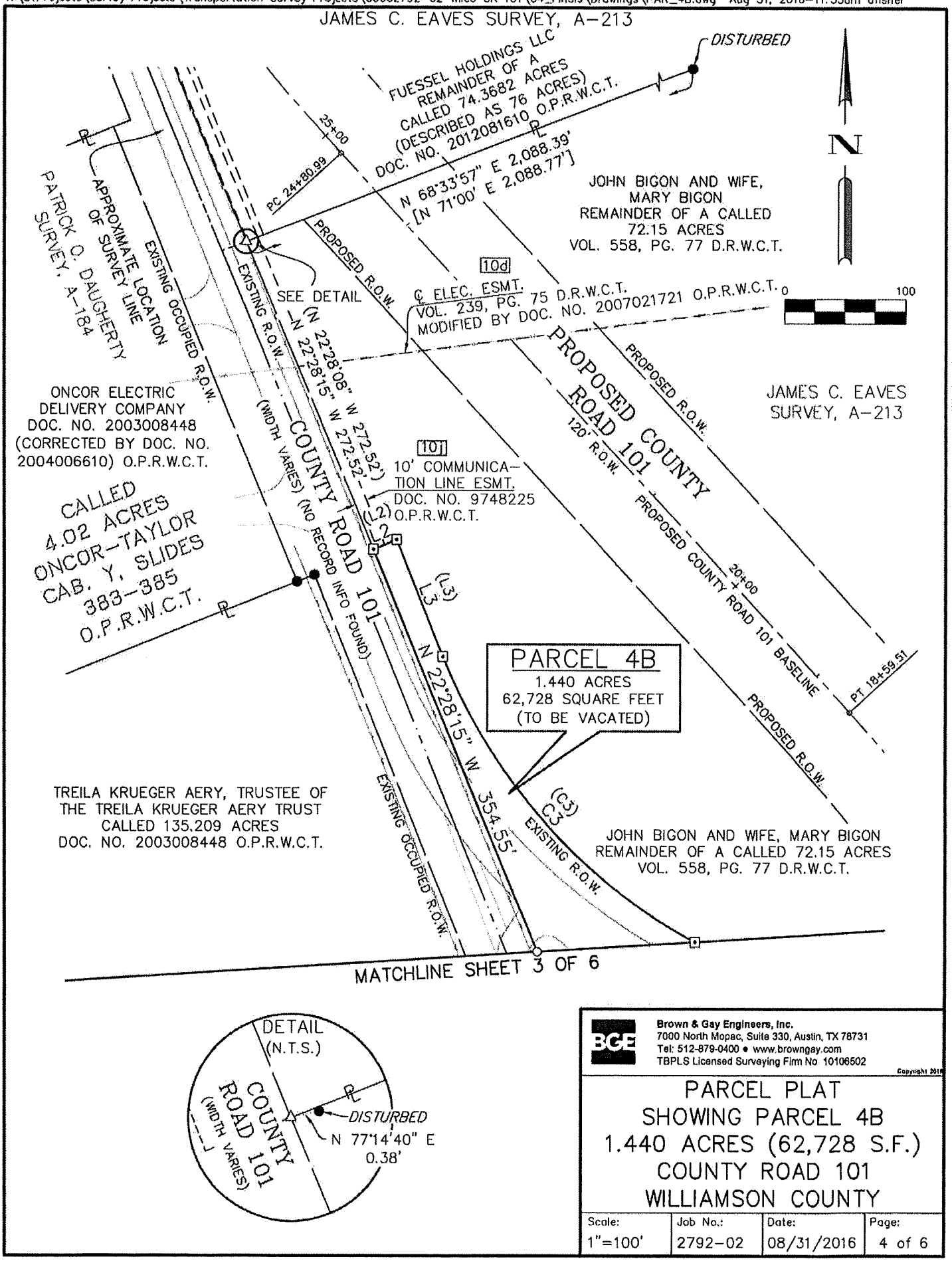

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COUNTY ROAD 101
WILLIAMSON COUNTY

Scale:	Job No.:	Date:	Page:
1"=100'	2792-02	08/31/2016	4 of 6

RESTRICTIVE COVENANT AND EASEMENT NOTES:

THIS SURVEY WAS MADE IN RELIANCE UPON THAT CERTAIN COMMITMENT FOR TITLE INSURANCE ISSUED BY TITLE RESOURCES GUARANTY COMPANY AND COUNTERSIGNED BY INDEPENDENCE TITLE UNDER G.F. NO. 1622089-GTN, DATED EFFECTIVE JUNE 14, 2016 AND ISSUED ON JUNE 23, 2016.

10c. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 238, PAGE 543, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT, AS EASEMENT NOW LIES WITHIN DEDICATED RIGHT-OF-WAY.

10d. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER & LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 239, PAGE 75, DEED RECORDS, WILLIAMSON COUNTY, TEXAS AS MODIFIED BY EASEMENT AND AGREEMENT RECORDED IN DOCUMENT NO. 2007021721, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT, AS SHOWN HEREON.

10e. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER & LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 239, PAGE 80, DEED RECORDS, WILLIAMSON COUNTY, TEXAS AS MODIFIED BY EASEMENT AND AGREEMENT RECORDED IN DOCUMENT NO. 2007021720, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT.

10f. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 303, PAGE 182, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT IS NOT ABLE TO BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10g. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 348, PAGE 384, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT.

10h. WATER LINE(S) EASEMENT GRANTED TO JONAH WATER SUPPLY CORPORATION BY INSTRUMENT RECORDED IN VOLUME 563, PAGE 504, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT IS NOT ABLE TO BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10i. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 640, PAGE 91, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT.

10j. COMMUNICATION LINE(S) EASEMENT GRANTED TO GTE SOUTHWEST, INC. BY INSTRUMENT RECORDED IN DOCUMENT NO. 9748225, OFFICIAL RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, AS SHOWN HEREON.

10k. PUBLIC UTILITY AND ACCESS EASEMENT AGREEMENT GRANTED TO JONAH WATER SPECIAL UTILITY DISTRICT BY INSTRUMENT RECORDED IN DOCUMENT NO 2008042851, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT IS NOT ABLE TO BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10l. TERMS, CONDITIONS, AND STIPULATIONS OF THAT CERTAIN RESOLUTION NO. 2006-27R OF THE CITY OF HUTTO, RECORDED IN DOCUMENT NO'S. 2006045188 AND 2006042885, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

10m. TERMS, CONDITIONS, AND STIPULATIONS OF THAT CERTAIN EASEMENT AGREEMENT, RECORDED IN DOCUMENT NO. 2009042802, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT.

10n. TERMS, CONDITIONS, AND STIPULATIONS OF THAT CERTAIN AGREEMENT REGARDING ORDINANCE 2012-19, RECORDED IN DOCUMENT NO. 2012057357, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

10o. TERMS, CONDITIONS, AND STIPULATIONS OF THAT CERTAIN DEVELOPMENT AGREEMENT, RECORDED IN DOCUMENT NO. 2012057885, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

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SHOWING PARCEL 4B
1.440 ACRES (62,728 S.F.)
COUNTY ROAD 101
WILLIAMSON COUNTY

Scale:	Job No.:	Date:	Page:
1"=100'	2792-02	08/31/2016	5 of 6

LINE TABLE		
NUMBER	BEARING	DISTANCE
L1	N 22°40'54" W	128.56'
(L1)	(N 22°40'47" W)	(128.56')
L2	N 67°37'39" E	20.95'
(L2)	(N 67°37'46" E)	(20.95')
L3	S 21°55'25" E	102.93'

LINE TABLE		
NUMBER	BEARING	DISTANCE
(L3)	(S 21°55'18" E)	(102.93')
L4	S 27°19'03" W	37.09'
L5	N 27°19'03" E	27.31'
(L5)	(N 27°19'10" E)	(27.31')

CURVE TABLE					
NUMBER	ARC LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE
C1	311.61'	460.00'	38°48'47"	N 42°05'18" W	305.69'
(C1)	(311.61')	(460.00')	(38°48'49")	(N 42°05'11" W)	(305.69')
C2	110.70'	540.00'	11°44'46"	N 55°37'18" W	110.51'
(C2)	(110.71')	(540.00')	(11°44'48")	(N 55°37'11" W)	(110.52')
C3	317.41'	460.00'	39°32'07"	S 41°43'38" E	311.15'
(C3)	(317.41')	(460.00')	(39°32'08")	(S 41°43'31" E)	(311.15')
C4	183.09'	540.00'	19°25'35"	S 51°46'53" E	182.21'
C5	285.26'	1,355.00'	12°03'44"	S 18°27'31" E	284.74'

LEGEND

D.R.W.C.T.	DEED RECORDS OF WILLIAMSON COUNTY, TEXAS
ELEC.	ELECTRIC
ESMT.	EASEMENT
N.T.S.	NOT TO SCALE
O.P.R.W.C.T.	OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
P.O.B.	POINT OF BEGINNING
P.O.R.	POINT OF REFERENCE
R.O.W.	RIGHT-OF-WAY
[ ]	RECORD INFORMATION FROM VOL. 558, PG. 77
( )	RECORD INFORMATION FROM DOC. NOS. 2008087669 & 2008006702
	LINE BREAK
℄	PROPERTY LINE
●	FOUND 1/2" IRON ROD
⊡	FOUND TXDOT TYPE II MONUMENT
○	SET 1/2" IRON ROD WITH "WILCO ROW 5777" CAP
△	CALCULATED POINT
	OVERHEAD POWER
	EDGE OF ASPHALT

GENERAL NOTES:

1. BEARING ORIENTATION IS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD-83, CENTRAL ZONE 4203. SCALE FACTOR = 1.00012352
2. A SEPARATE METES AND BOUNDS DESCRIPTION OF EVEN DATE WAS PREPARED IN CONJUNCTION WITH THIS SKETCH.
3. FENCES ROADS & UTILITIES SHOWN WERE LOCATED ON THE GROUND. AERIAL IMAGERY WAS USED TO APPROXIMATE LOCATIONS OF OTHER IMPROVEMENTS SHOWN HEREON.

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COUNTY ROAD 101
WILLIAMSON COUNTY

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EXHIBIT C

County: Williamson
Parcel: 4C (R.O.W. Vacation)
Highway: County Road 101

METES & BOUNDS DESCRIPTION FOR PARCEL 4C

METES & BOUNDS DESCRIPTION FOR A 0.087 ACRE (3,788 SQUARE FOOT) TRACT OF LAND SITUATED IN THE JAMES C. EAVES SURVEY, ABSTRACT NO. 213, WILLIAMSON COUNTY, TEXAS AND BEING A PORTION OF THE RIGHT-OF-WAY OF U.S. HIGHWAY 79, AS CONVEYED TO WILLIAMSON COUNTY AS A 0.171 ACRE TRACT OF LAND DESCRIBED AS PARCEL 44, PART 2, BY SPECIAL WARRANTY DEED RECORDED IN DOCUMENT NO. 2008006702 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS; SAID 0.087 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS AND SHOWN ON THE ATTACHED SKETCH:

BEGINNING at a 1/2-inch iron rod with aluminum cap stamped "WILCO ROW 5777" (NAD-83, Central Zone Grid Coordinates: N=10,176,909.94, E=3,193,641.59) set on the proposed east right-of-way line of County Road 101 at the intersection with the north right-of-way line of said U.S. Highway 79, on the north line of said 0.171 acre right-of-way parcel for the northwest corner and **POINT OF BEGINNING** of the herein described tract, 69.99 feet right of County Road 101 baseline station 11+18.23;

THENCE, with the north right-of-way line U.S. Highway 79 and the south line of the remainder of a called 72.15 acre tract of land as conveyed to John Bigon and wife, Mary Bigon by warranty deed recorded in Volume 558, Page 77 of the Deed Records of Williamson County, Texas the following four (4) courses:

1. **N 69°43'53" E**, a distance of **63.49** feet to a 1/2-inch iron rod with cap stamped "BGE INC" set for the most northerly northeast corner of the herein described tract, 132.93 feet right of County Road 101 baseline station 11+26.27;

2. **S 22°33'35" E**, a distance of **36.12** feet to a 1/2-inch iron rod with cap stamped "BGE INC" set for an interior corner of the herein described tract, 139.12 feet right of County Road 101 baseline station 10+91.02;

3. **N 71°55'04" E**, a distance of **35.14** feet to a 1/2-inch iron rod with cap stamped "BGE INC" set for the most easterly northeast corner of the herein described tract, 174.10 feet right of County Road 101 baseline station 10+94.32; and

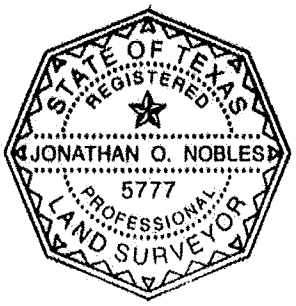
4. **S 22°39'25" E**, a distance of **34.21** feet to a 1/2-inch iron found at the most southerly southwest corner of said Bigon remainder tract, for the southeast corner of the herein described tract, 180.03 feet right of County Road 101 baseline station 10+60.63;

THENCE, over and across said U.S. Highway 79 right-of-way, **S 83°31'14" W**, a distance of **68.29** feet to a 1/2-inch iron rod with cap stamped "WILCO ROW 5777" set for the southwest corner of the herein described tract, 112.14 feet right of County Road 101 baseline station 10+68.02;

THENCE, continuing over and across the right-of-way of said U.S. Highway 79, **N 52°41'39" W,** a distance of **65.56** feet to the **POINT OF BEGINNING** and containing 0.087 acres (3,788 square feet) of land, more or less.

Bearing orientation is based on the Texas State Plane Coordinate System NAD-83, Central Zone 4203. All distances are surface and may be converted to grid by dividing by a scale factor of 1.00012352.

I hereby certify that these notes were prepared by BGE from a survey made on the ground under my supervision on February 6, 2017 and are true and correct to the best of my knowledge. A sketch accompanies this description.



8/17/2017
Date

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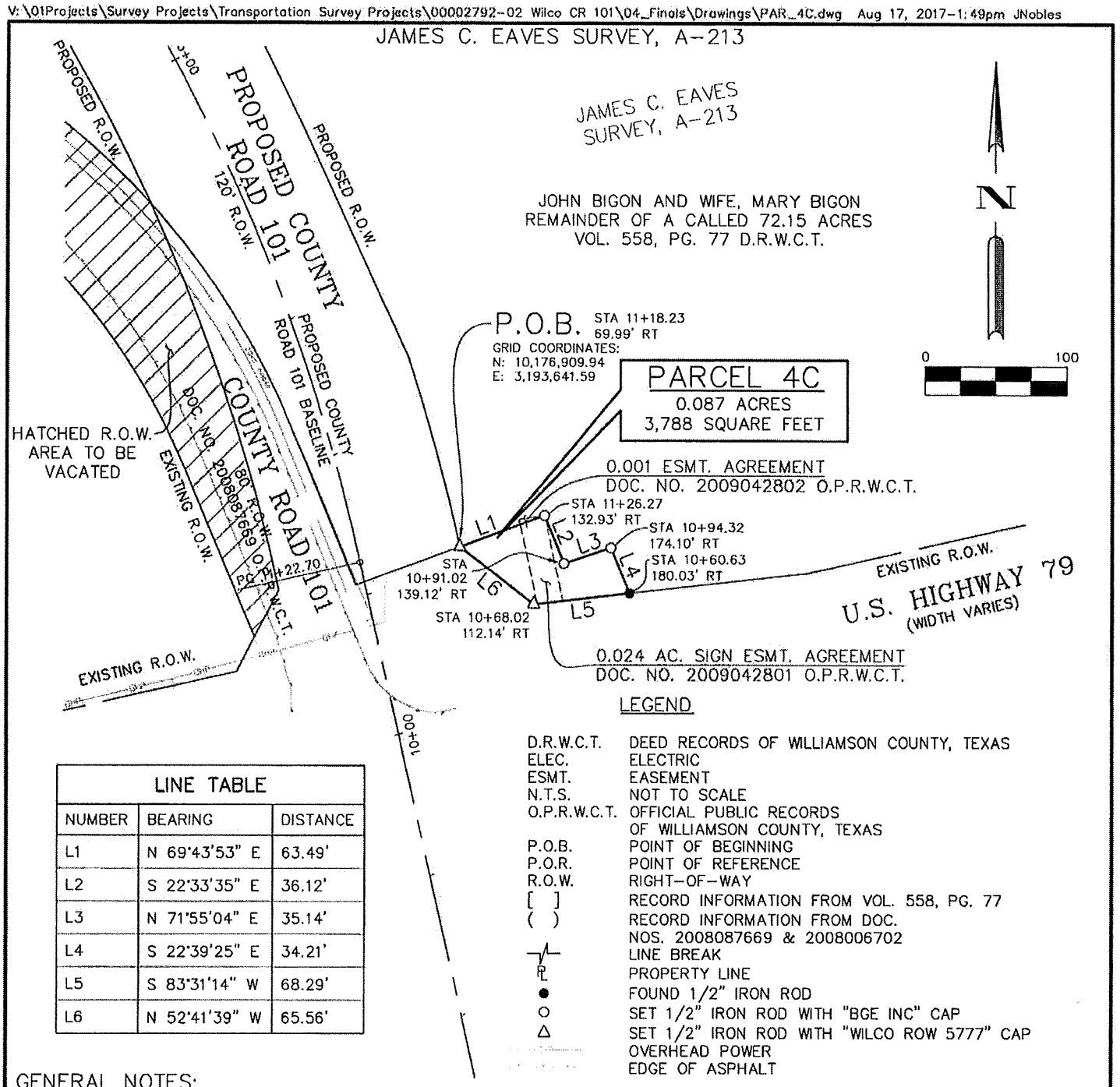
Austin, Texas 78731
Telephone: (512) 879-0400
TBPLS Registered Surveying Firm No. 10106502

Client: Williamson County
Date: August 17, 2017
Job No: 2792-02



LINE TABLE		
NUMBER	BEARING	DISTANCE
L1	N 69°43'53" E	63.49'
L2	S 22°33'35" E	36.12'
L3	N 71°55'04" E	35.14'
L4	S 22°39'25" E	34.21'
L5	S 83°31'14" W	68.29'
L6	N 52°41'39" W	65.56'

LEGEND

D.R.W.C.T.	DEED RECORDS OF WILLIAMSON COUNTY, TEXAS
ELEC.	ELECTRIC
ESMT.	EASEMENT
N.T.S.	NOT TO SCALE
O.P.R.W.C.T.	OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
P.O.B.	POINT OF BEGINNING
P.O.R.	POINT OF REFERENCE
R.O.W.	RIGHT-OF-WAY
[ ]	RECORD INFORMATION FROM VOL. 558, PG. 77
( )	RECORD INFORMATION FROM DOC. NOS. 2008087669 & 2008006702
	LINE BREAK
PL	PROPERTY LINE
●	FOUND 1/2" IRON ROD
○	SET 1/2" IRON ROD WITH "BGE INC" CAP
△	SET 1/2" IRON ROD WITH "WILCO ROW 5777" CAP
	OVERHEAD POWER
	EDGE OF ASPHALT

GENERAL NOTES:

1. BEARING ORIENTATION IS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD-83, CENTRAL ZONE 4203. SCALE FACTOR = 1.00012352
2. A SEPARATE METES AND BOUNDS DESCRIPTION OF EVEN DATE WAS PREPARED IN CONJUNCTION WITH THIS SKETCH.
3. ROADS & UTILITIES SHOWN WERE LOCATED ON THE GROUND.

STATE OF TEXAS
REGISTERED
JONATHAN O. NOBLES
5777
PROFESSIONAL
LAND SURVEYOR

JONATHAN O. NOBLES RPLS NO. 5777
BROWN & GAY ENGINEERS, INC.
7000 NORTH MOPAC, SUITE 330
AUSTIN, TEXAS 78731
TELEPHONE: (512) 879-0400

Brown & Gay Engineers, Inc.
7000 North Mopac, Suite 330, Austin, TX 78731
Tel: 512-879-0400 • www.browngay.com
TBPLS Licensed Surveying Firm No. 10106502
Copyright 2017

PARCEL PLAT
SHOWING PARCEL 4C
0.087 ACRES (3,788 S.F.)
COUNTY ROAD 101
WILLIAMSON COUNTY

Scale:	Job No.:	Date:	Page:
1"=100'	2792-02	08/17/2017	3 of 4

RESTRICTIVE COVENANT AND EASEMENT NOTES:

THIS SURVEY WAS MADE IN RELIANCE UPON THAT CERTAIN COMMITMENT FOR TITLE INSURANCE ISSUED BY TITLE RESOURCES GUARANTY COMPANY AND COUNTERSIGNED BY INDEPENDENCE TITLE UNDER G.F. NO. 1622089-GTN, DATED EFFECTIVE JULY 31, 2017 AND ISSUED ON AUGUST 8, 2017.

10d. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER & LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 239, PAGE 75, DEED RECORDS, WILLIAMSON COUNTY, TEXAS AS MODIFIED BY EASEMENT AND AGREEMENT RECORDED IN DOCUMENT NO. 2007021721, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT.

10f. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 303, PAGE 182, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT IS NOT ABLE TO BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10g. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 348, PAGE 384, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT.

10h. WATER LINE(S) EASEMENT GRANTED TO JONAH WATER SUPPLY CORPORATION BY INSTRUMENT RECORDED IN VOLUME 563, PAGE 504, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT IS NOT ABLE TO BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10k. PUBLIC UTILITY AND ACCESS EASEMENT AGREEMENT GRANTED TO JONAH WATER SPECIAL UTILITY DISTRICT BY INSTRUMENT RECORDED IN DOCUMENT NO 2008042851, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT IS NOT ABLE TO BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10l. TERMS, CONDITIONS, AND STIPULATIONS OF THAT CERTAIN RESOLUTION NO. 2006-27R OF THE CITY OF HUTTO, RECORDED IN DOCUMENT NO'S. 2006045188 AND 2006042885, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

10o. TERMS, CONDITIONS, AND STIPULATIONS OF THAT CERTAIN DEVELOPMENT AGREEMENT, RECORDED IN DOCUMENT NO. 2012057885, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

10t. ELECTRIC AND TELEPHONE LINE(S) EASEMENT GRANTED TO TEXAS POWER AND LIGHT COMPANY BY INSTRUMENT RECORDED IN VOLUME 238, PAGE 243, DEED RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT.

10u. WATER LINE(S) EASEMENT GRANTED TO JONAH WATER SUPPLY CORPORATION BY INSTRUMENT RECORDED IN VOLUME 564, PAGE 42, REAL PROPERTY RECORDS, WILLIAMSON COUNTY, TEXAS, MAY AFFECT THE SUBJECT TRACT, BUT IS NOT ABLE TO BE DETERMINED FROM INFORMATION CURRENTLY AVAILABLE.

10v. EASEMENT AND RIGHT OF WAY FOR OVERHEAD AND/OR UNDERGROUND ELECTRIC SUPPLY AND COMMUNICATIONS LINE(S) GRANTED TO TEXAS UTILITIES ELECTRIC COMPANY RECORDED IN DOCUMENT NO. 96667096, OFFICIAL RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT.

10w. EASEMENT AND RIGHT-OF-WAY FOR THE USE, MAINTAIN AND REPAIR OF ADVERTISING BILLBOARD GRANTED TO JOHNSON HOLDINGS, L.P. RECORDED IN DOCUMENT NO. 2002011205, FURTHER AFFECT BY RELEASE OF EASEMENT RECORDED IN DOCUMENT NO. 2009045853, BOTH OF THE OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT.

10x. TERMS, CONDITIONS, AND STIPULATIONS IN LOCATION SPACE AGREEMENT, RECORDED IN DOCUMENT NO. 2002013929, FURTHER AFFECTED BY ASSIGNMENT RECORDED IN DOCUMENT NO'S. 2002090865 & 2003067906, ALL OF THE OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, NOT PLOTTABLE.

10y. TERMS, CONDITIONS, STIPULATIONS, EASEMENTS IN SIGN EASEMENT AGREEMENT, RECORDED IN DOCUMENT NO. 2009042801, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES AFFECT THE SUBJECT TRACT, AS SHOWN HEREON.

10z. TERMS, CONDITIONS, AND STIPULATIONS IN AGREEMENT REGARDING ORDINANCE 2010-45, RECORDED IN DOCUMENT NO. 2010083176, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DOES NOT AFFECT THE SUBJECT TRACT.

Brown & Gay Engineers, Inc.
7000 North Mopac, Suite 330, Austin, TX 78731
Tel: 512-879-0400 • www.browngay.com
TBPLS Licensed Surveying Firm No 10106502

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PARCEL PLAT
SHOWING PARCEL 4C
0.087 ACRES (3,788 S.F.)
COUNTY ROAD 101
WILLIAMSON COUNTY

Scale:	Job No.:	Date:	Page:
1"=100'	2792-02	08/17/2017	4 of 4

EXHIBIT "D"

SPECIAL WARRANTY DEED

THE STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

NOW, THEREFORE, KNOW ALL BY THESE PRESENTS:

That WILLIAMSON COUNTY, TEXAS, hereinafter referred to as Grantor, whether one or more, for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration to Grantor in hand paid by Mr. W Fireworks, Inc., receipt and sufficiency of which is hereby acknowledged, and for which no lien is retained, either expressed or implied, have this day Sold and by these presents do Grant, Bargain, Sell and Convey unto JOHN BIGON and MARY BIGON all those certain tracts or parcels of land lying and being situated in the County of Williamson, State of Texas, along with any improvements thereon, being more particularly described as follows:

All of that certain 1.440 acre (62,728 SF) tract of land situated in the James C. Eaves Survey, Abstract No. 213 in Williamson County, Texas, being more fully described by metes and bounds in Exhibit "A", attached hereto and incorporated herein; and

All of that certain 0.087 acre (3,788 SF) tract of land situated in the James C. Eaves Survey, Abstract No. 213 in Williamson County, Texas, being more fully described by metes and bounds in Exhibit "B", attached hereto and incorporated herein.

RESERVATIONS FROM AND EXCEPTIONS TO CONVEYANCE AND WARRANTY:

Easements and rights-of-way of record; all presently recorded restrictions, reservations, covenants, conditions, oil, gas or other mineral leases, mineral severances, and other instruments, other than liens and conveyances, that affect the property; rights of adjoining owners in any walls and fences situated on a common boundary; and any encroachments or overlapping of improvements.

THIS CONVEYANCE OF THE PROPERTY TO SELLER IS MADE ON AN "AS IS", "WHERE IS" BASIS, "WITH ALL FAULTS." EXCEPT FOR THE SPECIAL WARRANTY OF TITLE, SELLER MAKES NO WARRANTY OR REPRESENTATION WITH RESPECT TO THE PROPERTY, EXPRESS OR IMPLIED, OR ARISING BY OPERATING OF LAW, INCLUDING, BUT IN NO WAY LIMITED TO, ANY WARRANTY OF MERCHANTABILITY, CONDITION, HABITABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OF THE PROPERTY. SELLER

HEREBY DISCLAIMS ANY AND ALL WARRANTIES WITH RESPECT TO THE PROPERTY, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO QUALITY AND SUITABILITY FOR ANY PURPOSE, PROVIDED THAT THIS DISCLAIMER SHALL NOT BE CONSTRUED AS A DISCLAIMER OF ANY SPECIAL WARRANTY OF TITLE OF THE PROPERTY.

TO HAVE AND TO HOLD the premises herein described and herein conveyed together with all and singular the rights and appurtenances thereto in any wise belonging unto Mr. W Fireworks, Inc. and its assigns forever; and Grantors doe hereby bind itself, its successors and assigns to Warrant and Forever Defend all and singular the said premises herein conveyed unto Grantee and its assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof by, through, or under Grantors, but not otherwise.

IN WITNESS WHEREOF, this instrument is executed on this the _____ day of _____, 2017.

GRANTOR:

WILLIAMSON COUNTY, TEXAS

By:_____
Dan A. Gattis
County Judge

ACKNOWLEDGMENT

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

This instrument was acknowledged before me on this the ____ day of _____, 2017 by Dan A. Gattis, Williamson County Judge, in the capacity and for the purposes and consideration recited therein.

_____
Notary Public, State of Texas

PREPARED IN THE OFFICE OF:

Sheets & Crossfield, P.C.
309 East Main
Round Rock, Texas

AFTER RECORDING RETURN TO:

EXHIBIT "E" (Page 1 of 2)

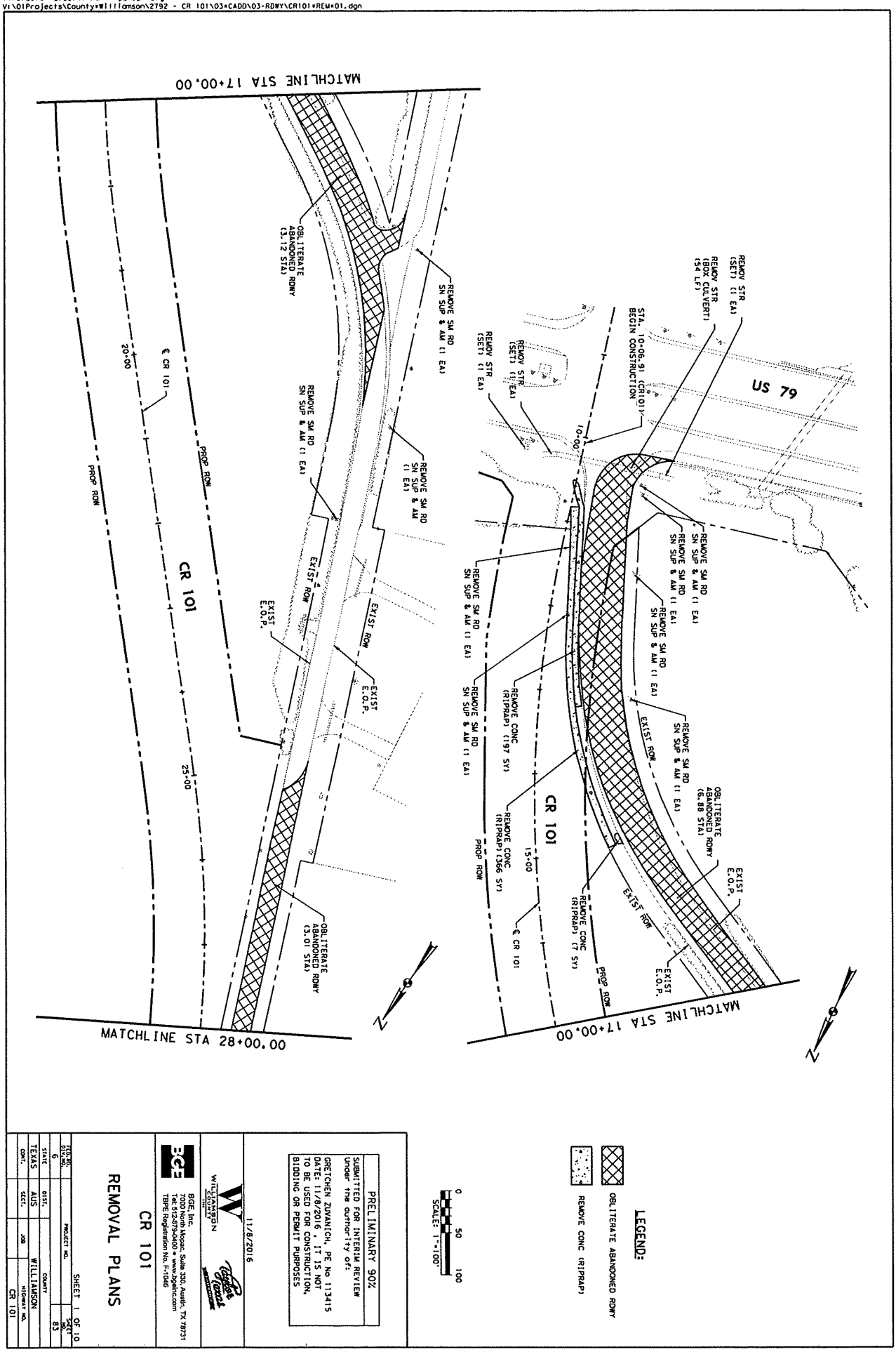


EXHIBIT "E" (Page 2 of 2)

106.1 to 110.2

ITEM 106
OBLITERATING ABANDONED ROAD

106.1. Description. Obliterate designated sections of abandoned road.

106.2. Construction. Strip and windrow existing topsoil before shaping operations. Remove asphaltic pavement in accordance with applicable item. Remove material designated as salvageable in accordance with applicable items. Remove abandoned structures unless otherwise shown on the plans. Scarify and mix the abandoned roadbed with soil and blade to produce a smooth, uniform appearance. Fill, cut, and shape the designated sections of the abandoned road to blend into the surrounding terrain. Eliminate ditches except where needed to facilitate drainage. Cover disturbed areas with topsoil after shaping operations to facilitate establishment of vegetation.

106.3. Measurement. This Item will be measured by the 100-ft. station along the baseline of the abandoned roadway.

106.4. Payment. The work performed in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Obliterating Abandoned Road." This price is full compensation for salvaging and replacing topsoil; stockpiling or disposal of materials; removal of abandoned structures; scarifying, mixing, and shaping abandoned road; furnishing and operating equipment, and labor, tools, and incidentals.

ITEM 110
EXCAVATION

110.1. Description. Excavate areas as shown on the plans or as directed. Remove materials encountered to the lines, grades, and typical sections shown on the plans and cross-sections.

110.2. Construction. Accept ownership of unsuitable or excess material and dispose of material in accordance with local, state, and federal regulations at locations outside the right of way.

Maintain drainage in the excavated area to avoid damage to the roadway section. Correct any damage to the subgrade caused by weather, at no additional cost to the Department.

Shape slopes to avoid loosening material below or outside the proposed grades. Remove and dispose of slides as directed.

EXHIBIT "F"

Parcel 4

DEED
County Road 101 Road Right of Way

THE STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

NOW, THEREFORE, KNOW ALL BY THESE PRESENTS:

That JOHN BIGON AND MARY BIGON, hereinafter referred to as Grantor, whether one or more, for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration to Grantor in hand paid by Williamson County, Texas, the receipt and sufficiency of which is hereby acknowledged, and for which no lien is retained, either expressed or implied, have this day Sold and by these presents do Grant, Bargain, Sell and Convey unto WILLIAMSON COUNTY, TEXAS, all that certain tract or parcel of land lying and being situated in the County of Williamson, State of Texas, along with any improvements thereon, being more particularly described as follows:

> All of that certain 3.493 acre (152,136 Sq. Ft.) tract of land in the James C. Eaves Survey, Abstract No. 213, Williamson County, Texas; being more fully described by metes and bounds in Exhibit "A", attached hereto and incorporated herein (**Parcel 4**)

SAVE AND EXCEPT, HOWEVER, it is expressly understood and agreed that Grantor is retaining title to the following improvements located on the property described in said Exhibit "A" to wit: NONE

RESERVATIONS FROM AND EXCEPTIONS TO CONVEYANCE AND WARRANTY:

Visible and apparent easements not appearing of record;

Any discrepancies, conflicts, or shortages in area or boundary lines or any encroachments or any overlapping of improvements which a current survey would show;

Easements, restrictions, reservations, covenants, conditions, oil and gas leases, mineral severances, and encumbrances for taxes and assessments (other than liens and conveyances) presently of record in the Official Public Records of Williamson County, Texas, that affect the property, but only to the extent that said items are still valid and in force and effect at this time.

Grantor reserves all of the oil, gas and other minerals in and under the land herein conveyed but waives all rights of ingress and egress to the surface thereof for the purpose of exploring, developing, mining or drilling or pumping the same; provided, however, that operations for exploration or recovery of any such minerals shall be permissible so long as all surface operations in connection therewith are located at a point outside the acquired parcel and upon the condition that none of such operations shall be conducted so near the surface of said land as to interfere with the intended use thereof or in any way interfere with, jeopardize, or endanger the facilities of Williamson County, Texas or create a hazard to the public users thereof; it being intended, however, that nothing in this reservation shall affect the title and the rights of Grantee to take and use without additional compensation any, stone, earth, gravel, caliche, iron ore, gravel or any other road building material upon, in and under said land for the construction and maintenance of CR 101.

TO HAVE AND TO HOLD the property herein described and herein conveyed together with all and singular the rights and appurtenances thereto in any wise belonging unto Williamson County, Texas and its assigns forever; and Grantor does hereby bind itself, its heirs, executors, administrators, successors and assigns to Warrant and Forever Defend all and singular the said premises herein conveyed unto Williamson County, Texas and its assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof.

This deed is being delivered in lieu of condemnation.

IN WITNESS WHEREOF, this instrument is executed on this the ____ day of _____, 2017.

[signature page follows]

GRANTOR:

_____

John Bigon

ACKNOWLEDGMENT

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

This instrument was acknowledged before me on this the _____ day of _____, 2017 by John Bigon in the capacity and for the purposes and consideration recited therein.

_____

Notary Public, State of Texas

GRANTOR:

_____

Mary Bigon

ACKNOWLEDGMENT

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

This instrument was acknowledged before me on this the _____ day of _____, 2017 by Mary Bigon in the capacity and for the purposes and consideration recited therein.

_____

Notary Public, State of Texas

PREPARED IN THE OFFICE OF:

Sheets & Crossfield, P.C.
309 East Main
Round Rock, Texas 78664

GRANTEE'S MAILING ADDRESS:

Williamson County, Texas
Attn: County Auditor
710 Main Street, Suite 101
Georgetown, Texas 78626

AFTER RECORDING RETURN TO:

Commissioners Court - Regular Session **24.**

Meeting Date: 10/17/2017

Order Abandoning County Road

Submitted For: Charlie Crossfield **Submitted By:** Charlie Crossfield, Road Bond

Department: Road Bond

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on an Order Abandoning County Road 123.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Order Abandoning CR 123

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Charlie Crossfield		Started On: 10/12/2017 09:29 AM
Final Approval Date: 10/12/2017		

ORDER ABANDONING COUNTY ROAD
County Road 123

WHEREAS, on the _____ day of _____, 2017, the Commissioners Court of Williamson County has met in a regularly scheduled meeting; and

WHEREAS, notice of this meeting was duly posted pursuant to Chapter 551 of the Texas Government Code; and

WHEREAS, pursuant to Section 251.058 of the Texas Transportation Code, a Commissioners Court may, on its own initiative, close, abandon and vacate a public road; and

WHEREAS, after due consideration, the Commissioners Court has considered the abandonment of a portion of a county road known as "County Road 123", and as further described in Exhibits "A" and "B" herein; and

WHEREAS, the Court has determined that the portion of said road is no longer utilized by the public as a road; and

WHEREAS, the Court has determined that it is in the best interest of the County to abandon any interest the County and/or the public may have in a certain portion of said road.

NOW THEREFORE, it is hereby ordered by the Commissioners Court of Williamson County, Texas

That the portion of CR 123 as described in Exhibits "A" and "B" are hereby abandoned.

Pursuant to Section 251.058, Texas Transportation Code, the Court finds that the following is true and correct:

1. The following property owners are the owners of real property which abuts the portion of the abandoned road:

   JOHN & SYLVIA DUDNEY own the real property abutting the portion of the abandoned road described in Exhibit "A."

   CPRT HE AUSTIN, LLC, owns the real property abutting the portion of the abandoned road described in Exhibit "B."

2. That the County be shown as the Grantor in the Williamson County Official Records and that John & Sylvia Dudney and CPRT HE AUSTIN, LLC, respectively, be shown as Grantees in said Official Records, pursuant to the dictates of Section 251.058(3) of the Texas Transportation Code.

_____
DAN A. GATTIS, County Judge

ATTEST:

_____
Nancy Rister, County Clerk

ACKNOWLEDGMENT

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

This instrument was acknowledged before me on this the ____ day of _____, 2017 by Dan A. Gattis, as County Judge of Williamson County, Texas.

_____
Notary Public, State of Texas

Exhibit "A"

0.134 ACRE
PORTION OF COUNTY ROAD 123
EAST R.O.W. VACATION

FN NO. 17-260(MJJ)
AUGUST 28, 2017
JOB NO. 222010743

DESCRIPTION

OF 0.134 ACRE OF LAND OUT OF THE ROBERT MCNUTT SURVEY, ABSTRACT NO. 422, SITUATED IN WILLIAMSON COUNTY, TEXAS, BEING A PORTION OF THE COUNTY ROAD 123 RIGHT-OF-WAY (R.O.W. VARIES), ADJACENT TO LOT 1, BLOCK A THE HEIGHTS AT DEERFIELD, A SUBDIVISION OF RECORD IN CABINET C, SLIDE 42 OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS; SAID LOT 1 HAVING BEEN CONVEYED TO JOHN AND SYLVIA DUDNEY BY DEED OF RECORD IN DOCUMENT NO. 2003047562 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS; SAID 0.134 ACRE BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING, at a 1/2 inch iron rod found in the southerly right-of-way line of the Missouri Pacific Railroad (100' R.O.W.), being in the northeasterly corner of the northerly terminus of County Road 123 (R.O.W. varies) and the northwesterly corner of said Lot 1, for the northeasterly corner hereof;

THENCE, leaving the southerly right-of-way line of the Missouri Pacific Railroad, along the easterly right-of-way line of County Road 123, being the westerly line of said Lot 1, for the easterly line hereof, the following two (2) courses and distances:

1) S03°26'48"E, a distance of 170.29 feet to a 1/2 inch iron rod found for the point of curvature of a curve to the left;

2) Along said curve to the left having a radius of 15.00 feet, a central angle of 46°12'37", an arc length of 12.10 feet and a chord which bears, S26°38'57"E, a distance of 11.77 feet to a 1/2 inch iron rod with "STANTEC" cap set for the southeasterly corner hereof, from which a 1/2 inch iron rod found in the northerly right-of-way line of Axis Deer Trail (60' R.O.W.), being the end of said curve bears, S73°42'11"E, a chord distance of 12.18 feet;

THENCE, leaving the westerly line of said Lot 1, over and across County Road 123 right-of-way, for the southerly and westerly lines hereof, the following two (2) courses and distances:

1) S83°06'12"W, a distance of 37.14 feet to a 1/2 inch iron rod with "STANTEC" cap set for the southwesterly corner hereof, from which a 1/2 inch iron rod with cap found at the intersection of the northerly right-of-way line of Benelli Drive (70' R.O.W.) with the westerly right-of-way line of County Road 123 bears, S83°06'12"W, a distance of 32.41 feet;

2) N03°23'53"W, a distance of 178.11 feet to a point in the southerly right-of-way line of the Missouri Pacific Railroad, being the northerly terminus of County Road 123 right-of-way, from which a 1/2 inch iron rod with "STANTEC" cap set at the northwesterly corner of the northerly terminus of County Road 123 bears, S77°20'38"W, a distance of 33.29 feet;

THENCE, N77°20'38"E, along the southerly right-of-way line of the Missouri Pacific Railroad, being the northerly terminus of County Road 123, for the northerly line hereof, a distance of 32.71 feet to the **POINT OF BEGINNING**, containing an area of 0.134 acre (5,833 sq. ft.) of land, more or less, within these metes and bounds.

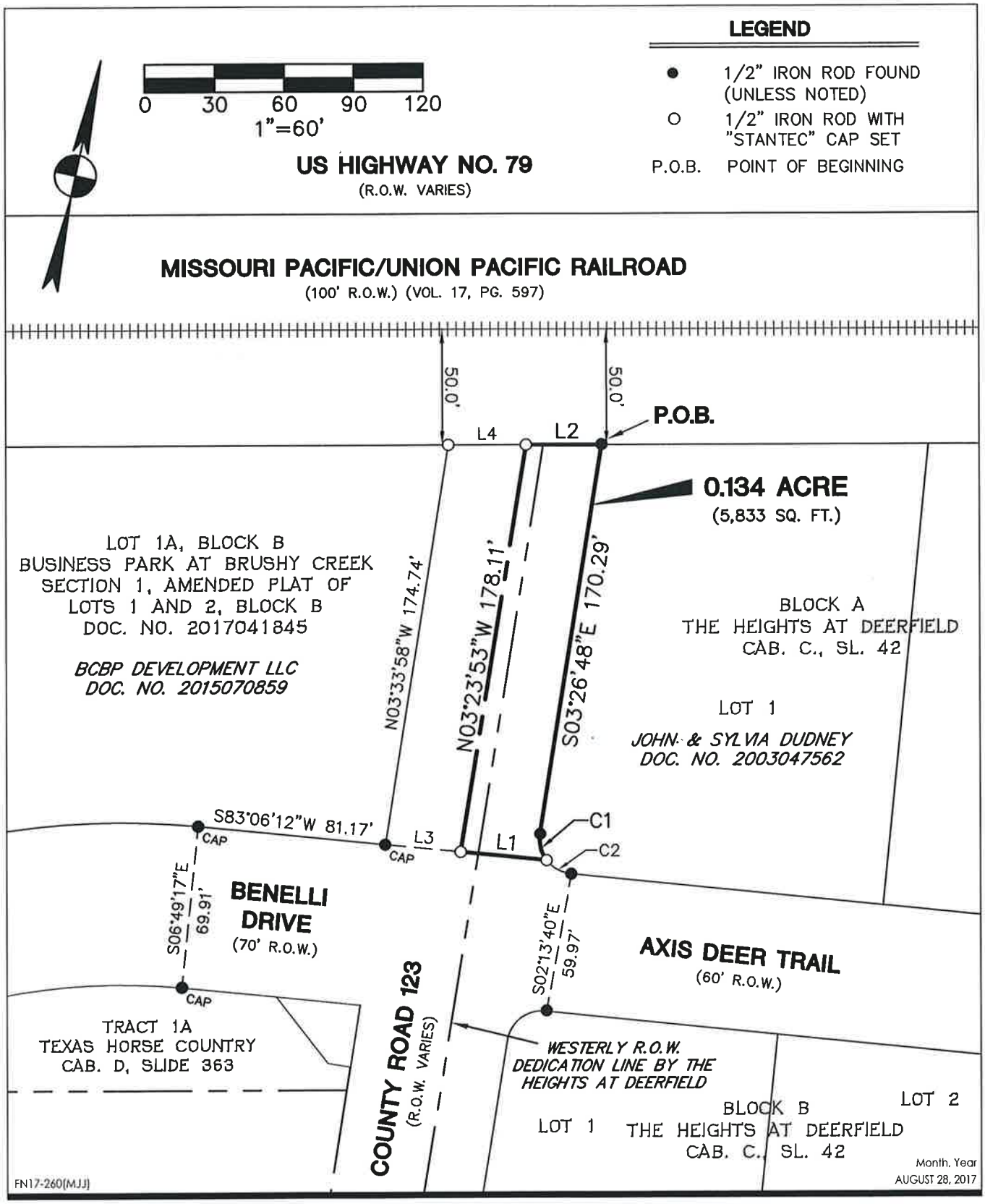
BEARING BASIS: IS REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83(96), UTILIZING WESTERN DATA SYSTEMS CONTINUALLY OPERATING REFERENCE STATION (CORS) NETWORK.

I, JOHN T. BILNOSKI, A REGISTERED PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT THE PROPERTY DESCRIBED HEREIN WAS DETERMINED BY A SURVEY MADE ON THE GROUND UNDER MY DIRECTION AND SUPERVISION.

9/19/17

STANTEC CONSULTING
SERVICES INC.
221 WEST SIXTH ST.
SUITE 600
AUSTIN, TEXAS 78701

JOHN T. BILNOSKI DATE
R.P.L.S. NO. 4998
STATE OF TEXAS
TBPLS # F-10194230
john.bilnoski@stantec.com



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2017/09/19 4:19 PM By: Bilnoski, John

Stantec

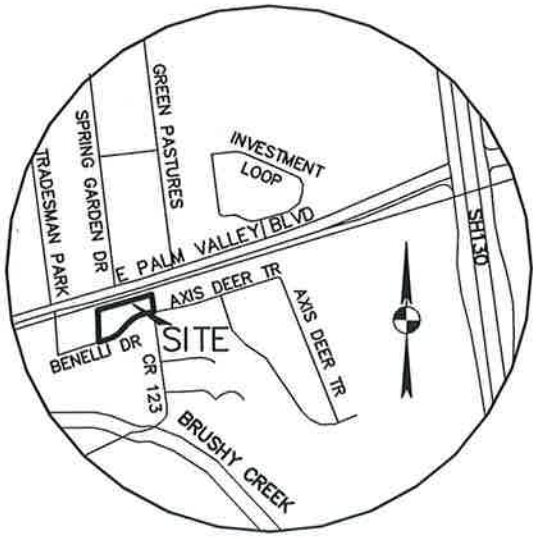
221 West Sixth Street, Suite 600
Austin, TX 78701
TBPE # F-6324 TBPLS # 10194230
www.stantec.com

STATE OF TEXAS
REGISTERED
JOHN T. BILNOSKI
4998
PROFESSIONAL
LAND SURVEYOR

Client/Project
CLIENT
HE SUPPLY
HUTTO, TEXAS

Figure No.
SHEET 1 OF 2

Title
R.O.W. VACATION
COUNTY ROAD 123



VICINITY MAP
N.T.S.

BEARING BASIS NOTE:

THE BASIS OF BEARING OF THE SURVEY SHOWN HEREON IS TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83(96), UTILIZING WESTERN DATA SYSTEMS CONTINUALLY OPERATING REFERENCE STATION (CORS) NETWORK.

LINE TABLE		
NO.	BEARING	DISTANCE
L1	S83°06'12"W	37.14'
L2	N77°20'38"E	32.71'
L3	S83°06'12"W	32.41'
L4	S77°20'38"W	33.29'

CURVE TABLE					
NO.	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C1	12.10'	15.00'	46°12'37"	S26°38'57"E	11.77'
C2	12.54'	15.00'	47°53'51"	S73°42'11"E	12.18'

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2017/09/19 4:19 PM By: Bilnoski, John

FN17-260(MJJ)

Month, Year
AUGUST 28, 2017

Stantec

221 West Sixth Street, Suite 600
Austin, TX 78701
TBPE # F-6324 TBPLS # 10194230
www.stantec.com

STATE OF TEXAS
REGISTERED
JOHN T. BILNOSKI
4098
PROFESSIONAL
LAND SURVEYOR

9/19/17

Client/Project
CLIENT
HE SUPPLY
HUTTO, TEXAS

Figure No.
SHEET 2 OF 2

Title
R.O.W. VACATION
COUNTY ROAD 123

Exhibit "B"

0.132 ACRE
PORTION OF COUNTY ROAD 123
WEST R.O.W. VACATION

FN NO. 17-259(MJJ)
AUGUST 28, 2017
JOB NO. 222010743

DESCRIPTION

OF 0.132 ACRE OF LAND OUT OF THE ROBERT MCNUTT SURVEY, ABSTRACT NO. 422, SITUATED IN WILLIAMSON COUNTY, TEXAS BEING A PORTION OF THE COUNTY ROAD 123 RIGHT-OF-WAY (R.O.W. VARIES), ADJACENT TO LOT 1A, BLOCK "B" BUSINESS PARK AT BRUSHY CREEK SECTION 1, AMENDED PLAT OF LOTS 1 AND 2, BLOCK B, A SUBDIVISION OF RECORD IN DOCUMENT NO. 2017041845 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS; SAID LOT 1A CONVEYED TO BCBP DEVELOPMENT, LLC BY DEED OF RECORD IN DOCUMENT NO. 2015070859 OF SAID OFFICIAL PUBLIC RECORDS; SAID 0.132 ACRE BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING, at a 1/2 inch iron rod with cap found at the intersection of the northerly right-of-way line of Benelli Drive (70' R.O.W.) with the westerly right-of-way line of County Road 123, being the southeasterly corner of said Lot 1A and the southwesterly corner hereof, from which a 1/2 inch iron rod with cap found at the point of curvature in the northerly line of Benelli Drive bears, S83°06'12"W, a distance of 81.17 feet;

THENCE, N03°33'58"W, leaving the northerly right-of-way line of Benelli Drive, along the westerly right-of-way line of County Road 123, being the easterly line of said Lot 1A, for the westerly line hereof, a distance of 174.74 feet to a 1/2 inch iron rod with "STANTEC" cap set in the southerly right-of-way line of the Missouri Pacific Railroad right-of-way (100' R.O.W.), for the northeasterly corner of said Lot 1A and northwesterly corner hereof, from which a 1/2 inch iron rod with "RJ Surveying" cap found bears, N12°39'49"W, a distance of 0.38 feet;

THENCE, N77°20'38"E, leaving the northeasterly corner of said Lot 1A, along the southerly right-of-way line of the Missouri Pacific Railroad, being the northerly terminus of County Road 123, for the northerly line hereof, a distance of 33.29 feet to a 1/2 inch iron rod with "STANTEC" cap set for the northeasterly corner hereof, from which a 1/2 inch iron rod with RJ Surveying cap found in the southerly right-of-way line of the Missouri Pacific Railroad, being the northwesterly corner of Lot 1, Block A The Heights at Deerfield, a subdivision of record in Cabinet C, Slide 42 of the Plat Records of Williamson county, Texas bears, N77°20'38"E, a distance of 32.71 feet;

THENCE, leaving the southerly right-of-way line the Missouri Pacific Railroad, over and across County Road 123, for the easterly and southerly lines hereof, the following two (2) courses and distances:

1) S03°23'53"E, a distance of 178.11 feet to a 1/2 inch iron rod with "STANTEC" cap set for the southeasterly corner hereof;

2) S83°06'12"W, a distance of 32.41 feet to the **POINT OF BEGINNING**, containing an area of 0.132 acre (5,753 sq. ft.) of land, more or less, within these metes and bounds.

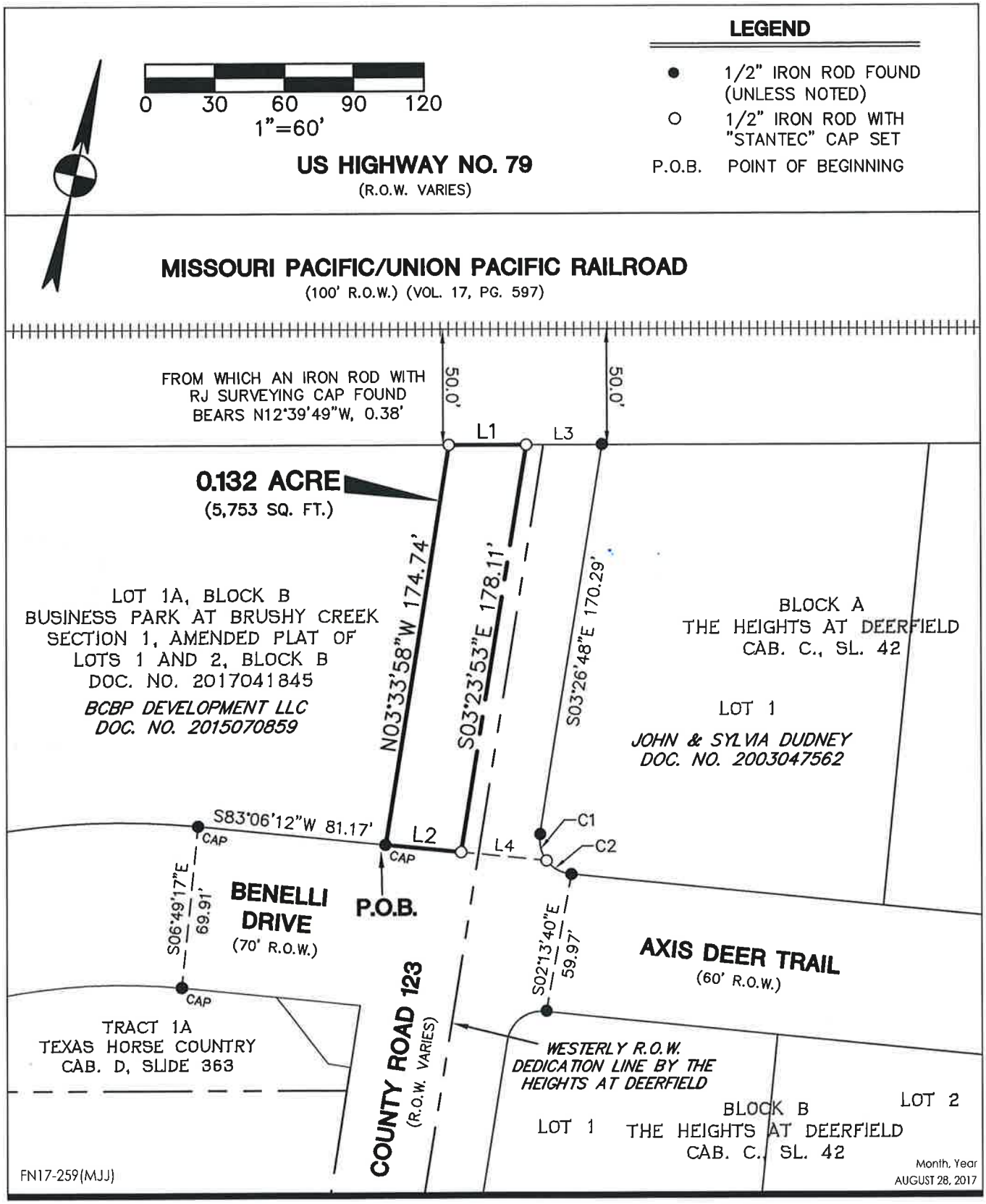
BEARING BASIS: IS REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83(96), UTILIZING WESTERN DATA SYSTEMS CONTINUALLY OPERATING REFERENCE STATION (CORS) NETWORK.

I, JOHN T. BILNOSKI, A REGISTERED PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT THE PROPERTY DESCRIBED HEREIN WAS DETERMINED BY A SURVEY MADE ON THE GROUND UNDER MY DIRECTION AND SUPERVISION.

9/19/17

STANTEC CONSULTING
SERVICES INC.
221 WEST SIXTH ST.
SUITE 600
AUSTIN, TEXAS 78701

JOHN T. BILNOSKI DATE
R.P.L.S. NO. 4998
STATE OF TEXAS
TBPLS # F-10194230
john.bilnoski@stantec.com



V:\2220\active\222010743\Survey\222010743EX2.dwg
2017/09/19 4:20 PM By: Bilnoski, John

Stantec

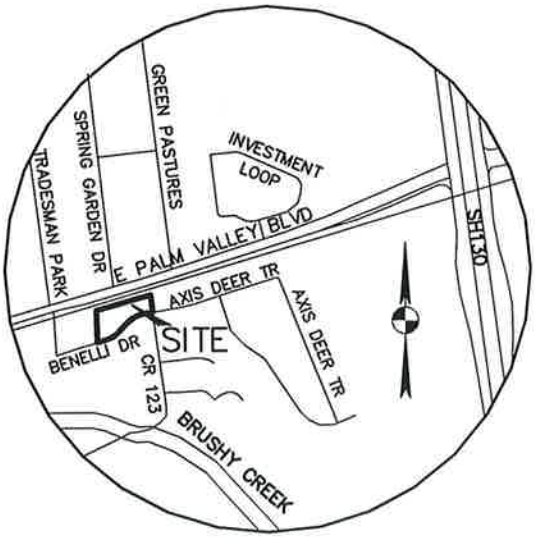
221 West Sixth Street, Suite 600
Austin, TX 78701
TBPE # F-6324 TBPLS # 10194230
www.stantec.com

STATE OF TEXAS
REGISTERED
JOHN T. BILNOSKI
4998
PROFESSIONAL
LAND SURVEYOR

Client/Project
CLIENT
HE SUPPLY
HUTTO, TEXAS

Figure No.
SHEET 1 OF 2

Title
R.O.W. VACATION
COUNTY ROAD 123



VICINITY MAP
N.T.S.

BEARING BASIS NOTE:

THE BASIS OF BEARING OF THE SURVEY SHOWN HEREON IS TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83(96), UTILIZING WESTERN DATA SYSTEMS CONTINUALLY OPERATING REFERENCE STATION (CORS) NETWORK.

LINE TABLE		
NO.	BEARING	DISTANCE
L1	N77°20'38"E	33.29'
L2	S83°06'12"W	32.41'
L3	N77°20'38"E	32.71'
L4	N83°06'12"E	37.14'

CURVE TABLE					
NO.	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C1	12.10'	15.00'	46°12'37"	S26°38'57"E	11.77'
C2	12.54'	15.00'	47°53'51"	S73°42'11"E	12.18'

FN17-259(MJJ)

Month, Year
AUGUST 28, 2017

V:\2220\active\222010743\Survey\222010743EX2.dwg
2017/09/19 4:20 PM By: Bilnoski, John

Stantec

221 West Sixth Street, Suite 600
Austin, TX 78701
TBPE # F-6324 TBPLS # 10194230
www.stantec.com

STATE OF TEXAS
REGISTERED
JOHN T. BILNOSKI
4998
PROFESSIONAL
LAND SURVEYOR

Client/Project
CLIENT
HE SUPPLY
HUTTO, TEXAS

Figure No.
SHEET 2 OF 2

Title
R.O.W. VACATION
COUNTY ROAD 123

Commissioners Court - Regular Session **25.**

Meeting Date: 10/17/2017

Development Agreement

Submitted For: Charlie Crossfield **Submitted By:** Charlie Crossfield, Road Bond

Department: Road Bond

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on an Economic Development Agreement with Texas State Gold Depository.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

TX Gold Depository Eco Development Agreement

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 11:53 AM
Form Started By: Charlie Crossfield		Started On: 10/12/2017 11:38 AM
Final Approval Date: 10/12/2017		

WILLIAMSON COUNTY AND TEXAS BULLION DEPOSITORY

CHAPTER 381 ECONOMIC DEVELOPMENT
PROGRAM AND AGREEMENT

This **CHAPTER 381 ECONOMIC DEVELOPMENT PROGRAM AND AGREEMENT** (this "Agreement") is made and entered into by and between **WILLIAMSON COUNTY** ("hereinafter referred to as ***"***County"***),*** a Texas political subdivision, and **TEXAS BULLION DEPOSITORY COMPANY**, (hereinafter ***"***Company***"),*** for the purposes and considerations stated below:

WHEREAS, the Company desires to enter into this Agreement pursuant to Chapter 381 of the Texas Local Government Code (hereinafter referred to as "Chapter 381"); and

WHEREAS*,* the County desires to provide, pursuant to Chapter 381, an incentive to Company to locate IN Williamson County, under the conditions described herein below; and

WHEREAS, the County has the authority under Chapter 381 to make loans or grants of public funds for the purposes of promoting local economic development and stimulating business and commercial activity within the County; and

WHEREAS, the County hereby establishes an economic development program and authorizes the making of economic development grants to Developer in recognition of the positive economic benefits to the County through Developer's construction of a 60,000 square foot building, as more fully described herein, (the "Project"); and

WHEREAS, the County determines that the grants as specified herein to Company will serve the public purpose of promoting local economic development and enhancing business and commercial activity within the County; and

WHEREAS, the Company intends to expend at least $12,000,000 for the construction of a 60,000 square foot building and other improvements (the "Facility") to be located on a tract of land (the "Property"), as described on the attached Exhibit "A"; and

WHEREAS, the Company intends to create up to 300 Full-Time Equivalent positions which will encourage increased economic development in the County***,*** provide significant increases in the County's tax revenues, and improve the County's ability to provide for the health, safety and welfare of its citizens; and

WHEREAS, the County has concluded and hereby finds that this Agreement clearly promotes economic development in the County and, as such, meets the requisites under Chapter 381 of the Texas Local Government Code and further, is in the best interests of the County***.***

NOW, THEREFORE, in consideration of tine mutual benefits and promises contained herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

SECTION 1. TERM.

This Agreement shall be effective for six (6) years from the Effective Date of this Agreement, or possibly at an earlier date, as specified herein.

SECTION 2. DEFINITIONS.

The following words shall have the following meanings when used in this Agreement.

(a) Ad Valorem Taxes. The words “Ad Valorem Taxes” shall mean those real and business personal ad valorem taxes paid to the County based on the assessed value of real and personal property within the Project.

(b) Agreement. The word "Agreement" means this Chapter 381 Economic Development Program and Agreement, together with all exhibits and schedules attached to this Agreement from time to time, if any.

(c) Company. The words **"**Company**"** mean Texas Bullion Depository. For the purposes of this Agreement, Company’s address is _____.

(d) County. The word **"** County” means Williamson County, Texas. For purposes of this Agreement, County's address is 710 Main Street, Suite 101, Georgetown, TX 78626.

(e) Full-Time Equivalent Job. The words "Full-Time Equivalent Job" means a job filled by (a) one (1) individual for a period of not less than forty (40) hours per week, or (b) two (2) or more individuals for a period of not less than forty (40) hours per week in the aggregate, each of which may also be a "Part-Time Equivalent Job" if it is filled by one (1) individual for twenty (20) hours per week or less.

(f) Grant. The word "Grant" means a payment to Company under the terms of this Agreement computed with reference to real property and personal property Ad Valorem Taxes generated by Company, and payable from the County’s general revenue fund.

(g) Grant Submittal Package. The words "Grant Submittal Package" mean the documentation required to be supplied to County as a condition of receipt of any Grant.

(h) Personal Property Ad Valorem Taxes. The words “Personal Property Ad Valorem Taxes” shall mean those business personal ad valorem taxes paid to the County based on the assessed value of personal property within the Project as determined by the Williamson County Central Appraisal District.

(i) Property. The word “Property” shall mean the real property as described in Exhibit “A”.

(j) Real Property Ad Valorem Taxes. The words “Real Property Ad Valorem Taxes” shall mean those real property ad valorem taxes paid to the County based on the assessed value of real property within the Project as determined by the Williamson County Central Appraisal District.

SECTION 3. OBLIGATIONS OF COMPANY*.*

During the term of this Agreement, Company shall comply with the following terms and conditions:

(a) In consideration of the County entering into this Agreement, Company will expend at least $12,000,000 to construct the Facility. The Company acknowledges that this Agreement is specifically contingent upon Company's continued operation of the Facility throughout the term of this Agreement. In the event the Facility is not constructed by _____ (subject to delays of Force Majeure), or if Company discontinues the operation of the Facility, then the County may terminate this Agreement after provision of written notice.

(b) On or before the 1st day of March of each calendar year for the term of this Agreement, Company agrees to submit to the County a Grant Submittal Package containing the following:

(1) Evidence acceptable to the County that Company has paid by January 31 of each year all of the real and business personal ad valorem taxes due for the previous tax year on the Project.

(2) Unless otherwise agreed by the County and Company***,*** each Grant Submittal Package shall be in a form as approved by the County***.*** If Company shall fail to timely submit a Grant Submittal Package for a particular year, then the County ***may*** give Company written notice of Company's failure to timely submit such Grant Submittal Package, and Company shall have thirty (30) calendar days calculated from the date on which such written notice is given in which to submit such Grant Submittal Package. The County's determination of the amount of the Grant payment due to Company is final.

(c) The parties to this Agreement agree that the taxable value of the Property will have a minimum base value of Seventy-One Million and No/100 Dollars ($71,000,000) throughout the term of this Agreement.

(d) The Company agrees to provide at least 300 Full-Time Equivalent Jobs throughout the term of this Agreement at the Facility. The Company shall provide to the County an affidavit stating the number of employees that is employed by the Company at the Facility no later than March 1 of each calendar year during the term of this Agreement. Failure of Company to provide at least 300 Full-Time Equivalent Jobs shall not be considered an event of default unless the number of Full-Time Equivalent Jobs actually provided is less than 200. If the actual number of Full-Time Equivalent Jobs is less than 300 (but equal to or greater than 200), the percentage of the Grant reimbursement will be reduced by the same percentage that the actual number of Full-Time Equivalent Jobs bears to the required number of Full-Time Equivalent Jobs.

SECTION 4. OBLIGATIONS OF COUNTY.

During the term of this Agreement and so long as an event of default has not occurred and is continuing as set forth in this Agreement (provided, however, an event of default hereunder shall not be deemed to have occurred until after the expiration of the applicable notice and cure period), County will comply with the following terms and conditions:

(a) For each calendar year during the term of this Agreement and beginning in tax year _____, an amount equaled to fifty (50%) percent of the Real Property Ad Valorem Tax revenue paid by Company and attributed solely to the Property shall be tendered from the County's general fund as a Grant by the County to Company on an annual basis upon Company's satisfaction of the requirements of this Agreement. The County agrees to process any county Real Property Ad Valorem Tax Grant payments to Company within sixty (60) days after the County has approved the Grant Submittal Package.

(b) For each calendar year during the term of this Agreement and beginning in tax year _____, an amount equaled to one hundred (100%) percent of the Personal Property Ad Valorem Tax revenue paid by Company and attributed solely to Property shall be tendered from the County's general fund as a Grant by the County to Company on an annual basis upon Company's satisfaction of the requirements of this Agreement. The County agrees to process any county Personal Property Ad Valorem Tax Grant payments to Company within sixty (60) days after the County has approved the Grant Submittal Package.

(c) The above-described Ad Valorem Tax Grant payments shall be paid for a period of five (5) years, beginning on _____ and continuing for 5 years, so long as Company complies with the terms and condition of this Agreement. After the term has expired, all future Real Property and Personal Property Ad Valorem Taxes shall be retained by the County.

(d) Company agrees that it is the sole obligation of Company to present satisfactory evidence to the County that all Ad Valorem Tax payments have actually been paid to and received by the County for the Project. If for any reason, the County is unable to verify that the Ad Valorem Tax payments were received by the County, the County is under no obligation to make the Grant payments.

SECTION 5. EVENTS OF DEFAULT.

Each of the following shall constitute an Event of Default under this Agreement:

(a) Failure to Comply with Agreement. Failure to substantially comply with any of the terms and conditions of this Agreement shall constitute an event of default. Company shall have thirty (30) days after receipt of notice of default to cure said default. Failure to cure the default within thirty (30) days after receipt of notice of default may result in the termination of this Agreement by the County.

(b) Insolvency. The dissolution or termination of Company's existence as an active business or concern, Company's insolvency, appointment of receiver for any part of Company's assets, any assignment of all or substantially all of the assets of Company for the benefit

of creditors of Company**,** or the commencement of any proceeding under any bankruptcy or insolvency laws by or against Company unless, in the case of involuntary proceedings, such proceedings are discharged within sixty (60) days after filing.

(c) Delinquent Taxes. Company agrees that the County has no legal obligation under this Agreement to make any Grant Payments to Company unless County is satisfied that all Ad Valorem Tax Payments due and owing against the Property have been paid.

(d) Failure to Cure. If any Event of Default by Company shall occur, and if Company fails to cure same in accordance herein, then this Agreement may be terminated and the County's obligations end at that time.

SECTION 6. TERMINATION OF AGREEMENT BY COUNTY WITHOUT DEFAULT.

County may terminate this Agreement without an event of default by Company and effective immediately if any state or federal statute, regulation, case law, or other law renders this Agreement ineffectual, impractical or illegal, including case law holding that a Chapter 381 Economic Development Agreement grants such as are included in this Agreement is an unconstitutional debt.

SECTION 7. GRANT RECAPTURE.

In the event that Company is in default of this Agreement, the County may recapture and collect from Company the Grant payments previously made to Company after providing Company written notice and a minimum period of thirty (30) days to cure such default, and the default has not been cured within said time. In the event Company does not so cure, Company shall pay to the County the all previously paid Grant payments within thirty (30) days after the County makes demand for same. In addition to other available remedies under law and equity, the County shall have all remedies for the collection of the Grant payments as provided generally in the Tax Code for the collection of delinquent property taxes.

SECTION 8. MISCELLANEOUS PROVISIONS.

The following miscellaneous provisions are a part of this Agreement:

(a) Amendments. This Agreement constitutes the entire understanding and agreement of the parties as to the matters set forth in this Agreement. No alteration of or amendment to this Agreement shall be effective unless given in writing and signed by the party or parties sought to be charged or bound by the alteration or amendment.

(b) Applicable Law and Venue. This Agreement shall be governed by and construed in accordance with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Williamson County, Texas. Venue for any action arising under this Agreement shall lie in the state district courts of Williamson County, Texas.

(c) Assignment. Company understands and agrees that the County expressly prohibits Company from selling, transferring, assigning or conveying in any way any rights to receive the Grant proceeds without the County's prior written consent.

(d) Binding Obligation. This Agreement shall become a binding obligation on the signatories upon execution by all signatories hereto. County warrants and represents that the individual executing this Agreement on behalf of County has full authority to execute this Agreement and bind County to the same. Company warrants and represents that the individual executing this Agreement on its behalf has full authority to execute this Agreement and bind it to the same.

(e) Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original and all of which shall constitute one and the same document.

(f) Effective Date. The effective date (the "Effective Date") of this Agreement shall be the date of the later to execute this Agreement by Company and County*.*

(g) Execution of Agreement. The Commissioners Court shall authorize the County Judge to execute this Agreement on behalf of County*.*

(h) Force Majeure. It is expressly understood and agreed by the parties to this Agreement that if the performance of any obligations hereunder is delayed by reason of war, civil commotion, acts of God, inclement weather, fire or other casualty, or court injunction, the party so obligated or permitted shall be excused from doing or performing the same during such period of delay, so that the time period applicable to such obligation or requirement shall be extended for a period of time equal to the period such party was delayed.

(i) Notices. All notices required to be given under this Agreement shall be given in writing and shall be effective when actually delivered or when deposited in the United States mail, first class, postage prepaid, addressed to the party to whom the notice is to be given at the addresses shown above. Any party may change its address for notices under this Agreement by giving formal written notice to the other parties, specifying that the purpose of the notice is to change the party's address. For notice purposes, each party agrees to keep the other informed at all times of its current address.

(j) Severability. In the event any provision of this Agreement shall be determined by any court of competent jurisdiction to be invalid or unenforceable, the Agreement shall, to the extent reasonably possible, remain in force as to the balance of its provisions as if such invalid provision were not a part hereof.

(k) Sovereign Immunity. No party hereto waives any statutory or common law right to sovereign immunity by virtue of its execution hereof.

IN WITNESS WHEREOF, the parties have executed this Agreement on the day and year first above written.

COMPANY:

TEXAS BULLION DEPOSITORY

By: _____

Name: _____
Title: _____
Date: _____

COUNTY:

COUNTY OF WILLIAMSON, TEXAS

By: _____
Dan A. Gattis, County Judge

Attest:

By: _____
County Clerk

Commissioners Court - Regular Session **26.**

Meeting Date: 10/17/2017

Hutto Education Foundation

Submitted For: Larry Madsen **Submitted By:** Julia Cooper, Commissioner Pct. #4

Department: Commissioner Pct. #4

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss and take appropriate action on distribution of funds for the Hutto Education Foundation from the Waste Management Landfill Fund.

Background

Kristen Smith will offer a presentation to the Commissioners Court on behalf of the Hutto Education Foundation.

The Hutto Education Foundation is a conduit for the distribution of funds allocated by the Commissioners Court to the Hutto ISD. We have an agreement that 25% or a minimum of $20,000 goes into the Permanent Endowment Fund. The recommendation for last year was $ 95,000 total with $91,500 for the Endowment Fund.

This year's recommendation is $150,000 to be divided as follows:
$ 146,500 for the Endowment Fund.
$ 3,500 for administration expenses.

This increase will allow the Foundation's Endowment to reach the Minimum Fund Balance of $500,000 as agreed by HISD and the Williamson County Commissioner's Court per the MOU.

Once the minimum fund balance requirement of $500,000.00 is attained, earnings above $500,000.00 may be used for higher education opportunities of Hutto High School students.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

HEF

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/04/2017 08:10 AM
Commissioner Pct. 4 (Originator)	Julia Cooper	10/05/2017 10:36 AM
Form Started By: Julia Cooper		Started On: 09/27/2017 02:50 PM
Final Approval Date: 10/05/2017		

Hutto Education Foundation Commissioner's Court Report

Waste Management Landfill Funds provided by the Court

2017-18

HEF is utilizing the funds received in Two Ways

1) **HEF Endowment – held by the Greater Round Rock Community Foundation, Inc.**

2) **Part of the funds will be used for an audit to keep us transparent and ensuring we are using our funds properly at HEF.**

Where the money goes…

1) Endowment

Our central goal for the use of the funds, and the central piece to our agreement with the Court, is the establishment of an endowment aimed at creating a fund for our students to attend 2-year, 4-year or a technical trade school. We have established that endowment and made progress with five years of deposits.

Endowment Fund Overview

Initial contribution	$20,000
11/2011	$22,500
12/2012	$26,250
06/2014 (double ask)	$87,000
10/2015	$86,500
10/2016	$91,500
Total contributions :	$333,750.00
Total Investment Income:	$40,663.83
Gross Profit:	$374,413.83
Total Program Expenses:	($12,474.46)

Net Income 7.31.17: **$361,939.37**

History of HEF Requests & New Request

	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Total Request	$70,000	$75,000	$80,000	$85,000	$90,000	$95,000	**$150,000**
HISD programing grants							
EAFK	$45000	----------	----------	----------	----------	----------	
EAFK & Success	----------	$45,000	$37,000	----------	----------	----------	
EAFK & Istation	----------	----------	----------	$35,000	----------	----------	
Endowment	$22,500	$26,250	$40,000	$47,000	$86,500	$91,500	**$146,500**
Operations	$2,500	$3,750	$3,000	$3,000	$3,500	$3,500	**$3,500**

$150,000 would officially put us at the needed $500,000 mark for the Endowment

Conclusion

- The large increase in request is to allow the Endowment to reach the “Minimum Fund Balance” per the Memorandum of Understanding between HEF and Williamson County

- Once the “Minimum Fund Balance” requirement of $500,000 is attained, earnings above $500,000 may be used for higher education opportunities of Hutto High School students.

Commissioners Court - Regular Session **27.**

Meeting Date: 10/17/2017

Tax Collection Agreement

Submitted For: Larry Gaddes **Submitted By:** Judy Kocian, County Tax Assessor Collector

Department: County Tax Assessor Collector

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action to approve the Tax Collection Agreement between the City of Leander serving as Agent for Deerbrooke Public Improvement District and the County of Williamson, Texas.

Background

The two original documents of the Tax Collection Agreement with the City of Leander serving as the Agent for Deerbrooke Public Improvement District (PID) requires the County Judge to sign as well as the County Tax Assessor/Collector The original documents have been signed by the County Tax Assessor Collector and are being sent via interdepartmental mail to the office of the County Judge indicating the location for his signature. All completed originals should be returned to the Tax Assessor/Collector office's for further distribution.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Deerbrooke PID

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/05/2017 02:21 PM
Form Started By: Judy Kocian		Started On: 10/05/2017 02:13 PM
Final Approval Date: 10/05/2017		

A RESOLUTION OF THE CITY OF LEANDER, TEXAS

RESOLUTION NO. 17-026-00

AUTHORIZING AGREEMENT WITH THE COUNTY OF WILLIAMSON FOR ASSESSMENT COLLECTION SERVICES

WHEREAS, the City of Leander desires to levy an assessment in each fiscal year within the Deerbrooke Public Improvement District located in Leander, Williamson County, Texas (the "Deerbrooke PID"), in accordance with the service and assessment plan and the ordinance levying assessments for the Deerbrooke PID; and

WHEREAS, The County of Williamson, Texas, provides assessment collection services; and

WHEREAS, the City of Leander finds it to be in the public interest to authorize a contract with The County of Williamson, Texas for collection of PID assessments;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF LEANDER THAT:

The Mayor of the City of Leander is hereby authorized and directed to enter into an Assessment Collection Services Agreement with The County of Williamson, Texas, in the form and according to the terms in the attached Exhibit A.

The foregoing resolution was moved and seconded and finally adopted by majority vote at a regular meeting of the City Council of the City of Leander, Texas on the 2nd day of October, 2017.

City of Leander, Texas

Christopher Fielder, Mayor

ATTEST:

Debora Penberg, Deputy City Secretary

CITY OF LEANDER
ESTABLISHED 1882 INCORPORATED 1974
STATE OF TEXAS

THE STATE OF TEXAS	**§**	**ASSESSMENT COLLECTION AGREEMENT**
	§	**FOR THE DEERBROOKE PUBLIC**
COUNTY OF WILLIAMSON	**§**	**IMPROVEMENT DISTRICT**

WHEREAS, the City of Leander, a Texas home rule municipality, and the County of Williamson, Texas, have the power and authority with reference to the terms of TEX. GOV'T. CODE ANN. §§ 791.001 et seq., and TEX. PROP. TAX CODE ANN. §§ 6.21 et seq., as amended, to authorize the County of Williamson, Texas, through its duly elected Tax Assessor-Collector to act as the Tax Collector for the above named Jurisdiction for those properties within Williamson County.

NOW, THEREFORE, for the consideration hereinafter expressed and the mutual condition hereof, it is mutually agreed by and between the City of Leander, a Texas home rule municipality duly organized and existing under the laws of the State of Texas, hereinafter referred to as the Jurisdiction, and the County of Williamson, Texas, hereinafter referred to as the County, as follows:

1. A. Under the provisions of TEX. GOV'T. CODE ANN. §§ 791.001 et seq., and TEX. PROP. TAX CODE ANN. §§ 6.21 et seq., as amended, the County, through its Tax Assessor-Collector, shall serve as Tax Collector for the Jurisdiction for PID assessment collection purposes for those properties within he Deerbrooke Public Improvement District located within Leander, Williamson County, Texas (the "Deerbrooke PID") only in the year this document is executed and subsequent years pursuant to the terms herein provided. The County agrees to perform for the Jurisdiction all necessary duties authorized, and the Jurisdiction does hereby expressly authorize the County, through its Tax Assessor-Collector, to do and perform all acts necessary and proper to collect assessments which are levied by the Jurisdiction within the Deerbrooke PID.

B. The Jurisdiction agrees to provide annually and upon request information pertaining to the properties, CAD quick ref IDs, legal descriptions, situs address, owner names, current year assessment, total assessment and remaining assessment balance in a format determined by the County.

2. A. The County agrees to prepare and mail all tax statements, provide monthly collection reports to the Jurisdiction, prepare tax certificates, develop and maintain both current and delinquent tax rolls for the Jurisdiction, meet the requirements of the Property Tax Code and Local Government Code, as amended, and to develop and maintain such other records and forms as are necessary or required by law or state rules and regulations related to the collection of the assessment levied by the Jurisdiction.

The County undertakes and agrees to make available to the Jurisdiction full information about the assessment collection operation of the County, and to promptly furnish written reports reasonably necessary to keep the Jurisdiction advised of all financial information affecting the Jurisdiction.

B. The Jurisdiction authorizes the County to approve on behalf of the Jurisdiction all refunds pursuant to TEX. PROP. TAX CODE ANN. § 31.11. Refunds may be made from assessment collections otherwise due to the Jurisdiction, or, if there are not sufficient current collections to make the refund, the Jurisdiction shall, at the request of the Tax Assessor-Collector, promptly return to the County sufficient money to pay the refund. The County shall report to the Jurisdiction all refunds made on behalf of the Jurisdiction.

Likewise, in the event that an assessment payment is made by check or other medium that is later dishonored, the County shall withhold the dishonored amount previously distributed to the Jurisdiction from assessment collection otherwise due to be distributed to the Jurisdiction. If there is not sufficient current collection to amount to the revenue lost due to the dishonored instrument, the Jurisdiction shall promptly refund to the County sufficient sums upon request by the Tax Assessor-Collector.

C. To enable the County to effectively serve all the taxing units which contract with the County for the collection of taxes, **the Jurisdiction must provide assessment information not later than September 1 or as soon thereafter as practicable.** In the absence of this requirement being met, the Jurisdiction shall bear all expenses of the County and its agents of expenditures made by such for the purpose of sending the tax statements in a separate notice or billing. By executing this Agreement, the Jurisdiction does accept such provisions and expressly agrees to meet solely any and all expenses that might be incurred as a result of not timely communicating to the County its assessment rate and any and all collateral or related information or documentation to allow the County to meet its required obligations and duties to all other parties on whose behalf it also collects tax funds.

3. The Jurisdiction hereby agrees and expressly authorizes the County to contract on the Jurisdiction's behalf with private legal counsel for the collection of delinquent property assessments. The Jurisdiction further agrees that such fee, as is allowed by law and provided in the contract with private legal counsel, will be paid from the penalty and interest collected for Jurisdiction by such private legal counsel.

4. For each tax year, the Jurisdiction shall pay to the County for collection services an amount or amounts per each real property parcel of taxable property, or account. The number of accounts assessed by the Jurisdiction and amounts to be assessed shall be determined by the Jurisdiction or agents thereof. The Tax Assessor-Collector shall notify the Jurisdiction of the charge per parcel on or about March 1. If no notice of charges per parcel is given by the Tax Assessor-Collector, charges per parcel for the prior year shall remain effective. The fee shall be payable in a lump sum annually by December 31 and may be withheld by the Tax Assessor-Collector from the distribution otherwise due the Jurisdiction.

5. The County shall cooperate with, and respond to the inquiries of, any independent certified public accountants employed by the Jurisdiction to conduct an annual financial audit of the Jurisdiction as such inquires are related to the collection of assessments as provided for by this contract.

6. The County agrees to obtain a surety bond for the County's Tax Assessor-Collector to assure proper performance of the assessment collecting function provided in this contract. Such bond shall be payable to the County in the sum of $100,000.00 unless state statutes require a larger sum and shall be executed by a solvent surety company.

7. The County agrees to make payments of assessments collected into such depositories as are selected by the Jurisdiction. Such payments shall be made every day on which both the County's tax office and Jurisdiction's depository are open for business.

8. This contract shall continue until terminated by the parties. Either party may terminate this contract by giving written notice of its intent to the other party on or before April 1, to be effective the following July 1 of the same calendar year. Upon such a termination, the Jurisdiction shall assume all its assessment collection responsibilities for all tax years.

9. If this contract should terminate for any reason, including but not limited to termination because of agreement of both parties and termination by judicial decree, the assessment records shall be returned to Jurisdiction.

10. This agreement supercedes any and all agreements and contracts by and between the Jurisdiction and Williamson County relative to the collection of assessments.

11. This contract is to be interpreted under the laws of the State of Texas. Venue for any litigation arising regarding this contract shall lie in Williamson County, Texas.

IN WITNESS WHEREFORE, these presents are executed by authority of the governing bodies of the respective parties hereto.

Executed _____, 20_____.

COUNTY OF WILLIAMSON

_____
Dan A. Gattis, County Judge
County of Williamson

_____
Larry Gaddes, Tax Assessor-Collector,
County of Williamson

JURISDICTION

_____
Christopher Fielder, Mayor

Commissioners Court - Regular Session **28.**

Meeting Date: 10/17/2017

Discuss and take appropriate action to appoint Commissioner Covey to CAPCOG General Assembly.

Submitted For: Cynthia Long **Submitted By:** Tammy Smith, Commissioner Pct. #2

Department: Commissioner Pct. #2

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss and take appropriate action to appoint Commissioner Covey to CAPCOG General Assembly.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 11:47 AM
Form Started By: Tammy Smith		Started On: 10/12/2017 11:38 AM
Final Approval Date: 10/12/2017		

Commissioners Court - Regular Session **29.**

Meeting Date: 10/17/2017

Williamson County Sheriff's Office Training Center

Submitted For: Robert Chody **Submitted By:** Starla Hall, Sheriff

Department: Sheriff

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on naming the new Williamson County Sheriff's Office Training Center located at 8160 Chandler Rd., Hutto to the "Deputy A. W. Grimes Law Enforcement Training Center".

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Starla Hall		Started On: 10/10/2017 04:07 PM
Final Approval Date: 10/12/2017		

Commissioners Court - Regular Session **30.**

Meeting Date: 10/17/2017

Local Initiative Project Grant from TCEQ for County Sheriff

Submitted For: Robert Chody **Submitted By:** Starla Hall, Sheriff

Department: Sheriff

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss and take appropriate action on the Local Initiative Project (LIP) grant from the Texas Commission on Environmental Quality (TCEQ) to implement and enhance enforcement of counterfeit registration insignias (i.e., counterfeit temporary/provisional license plates) and related counterfeit vehicle inspection reports.

Background

Since the move to a one sticker program there has been use of similar unlawful acts utilizing counterfeit dealer and similar illicit provisional plates. This activity causes loss of registration revenue to the County's tax assessor and, as a focus of TCEQ's emission reduction programs, circumvents emission reduction testing. LIP has available grant funds for the 2016 and 2017 state fiscal years, representing 77% of the total project cost. The County has the opportunity to utilize grant funds totaling $120,437.09 by providing a 23% match of the total cost or $35,290.94. Our required match will be entirely provided through vehicle costs already included in the FY2018 Sheriff's Office budget and indirect costs; a cash match will not be required. No additional personnel will be added and if state funding is depleted prior to the program completion date, enhanced enforcement will be concluded and normal enforcement efforts will resume. If any unused funds remain at the project end date, they will be returned to TCEQ. The FY 2016 funds must be expended by 8-31-18 and the FY 2017 funds must be expended by June 28, 2019. The program will begin immediately upon final approval from TCEQ. The Sheriff's Office will work in consultation with DPS to identify and reduce the number of counterfeit registration insignias and counterfeit vehicle inspection reports within the County. The Sheriff's Office will provide enforcement data to the DPS on a quarterly basis and notify them of any major investigations related to vehicle inspections or emissions, while DPS will send tips or leads to the Sheriff's Office for investigative consideration.

Staff recommends the following action: Approve application for a Local Initiative Project grant to initiate enhanced enforcement on counterfeit registration insignias and related counterfeit vehicle inspection reports and authorize appropriate Sheriff's Office and environmental personnel to complete TCEQ documentation relevant to implementation of the grant.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

LIP Emissions Enforcement Grant Application

Previously approved LIP Contract Amend for reference only

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Starla Hall		Started On: 10/11/2017 01:02 PM
Final Approval Date: 10/12/2017		

Local Initiative Project (LIP)
Emissions Enforcement Grant Application

General Applicant Information

Date Submitted: 10/17/2017

County Name: Williamson County

County Administrative Contact Person: Jody Cook

Title: Accountant II

Phone Number: 512-943-1595

Email Address: jody.cook@wilco.org

County Law Enforcement Contact Person: Lt. Craig Gripentrog

Title: Patrol Lieutenant, Special Ops Division / S.W.A.T. Supervisor

Phone Number: 512-943-1347

Email Address: cgripentrog@wilco.org

Project Schedule

Proposed Project Start Date: Upon signed notice to proceed

Project End Date: June 28, 2019

Project Description

A local law enforcement initiative that includes one or more of the following programs (please check all that apply):

☐ Remote sensing: A program in consultation with the Department of Public Safety (DPS) that remotely determines vehicle emissions and notifies the vehicle's operator.

☒ Counterfeit registration insignia: A program in consultation with the DPS to identify vehicles with and reduce the use of counterfeit registration insignia and carry out appropriate law enforcement actions including, but not limited to, preparation of operational plans, investigations (clean scanning/gross vehicle weight changes/counterfeits), offense report writing (evidence submission), covert surveillance operations, buy/bust operations, buy/walk operations, analysis of the TIMS database, preparation and execution of search/arrest warrants, interviews and interrogations, seizure of property, specialized training, and preparation and maintenance of equipment inventory.

☒ Counterfeit Vehicle Inspection Report (VIR): A program in consultation with the DPS to identify counterfeit vehicle inspection reports and carry out appropriate law enforcement actions including, but not limited to, preparation of operational plans, investigations (clean scanning/gross vehicle weight changes/counterfeits), offense report writing (evidence submission), covert surveillance operations, buy/bust operations, buy/walk operations, analysis of the TIMS database, preparation and execution of search/arrest warrants, interviews and interrogations, seizure of property, specialized training, and preparation and maintenance of equipment inventory.

Project Budget

Budget Item	TCEQ Funding Amount	Local Matching Amount	Total for Budget Item
Personnel / Salaries **See attached salary spreadsheet	$99,518.34	$0.00	$99,518.34
Fringe Benefits **See attached salary spreadsheet	$20,918.75	$0.00	$20,918.75
Travel Type of travel; estimated travel, lodging, cost of meals, and parking expenses	$0.00	$0.00	$0.00
Supplies Type, brand, and quantity of items purchased	$0.00	$0.00	$0.00
Equipment Type, brand, and quantity of equipment purchased; explanation of need; explanation of lifespan; salvage value of equipment; how equipment will be disposed of	$0.00	$0.00	$0.00
Construction Type, timeframe, and location of construction; who will perform the work; blueprint of construction plans	$0.00	$0.00	$0.00
Contractual Type, timeframe, and location of contractual activities; who will perform contractual activity	$0.00	$0.00	$0.00
Other **See attached Annual Vehicle Costs spreadsheet"	$0.00	$8,242.49	$8,242.49
Indirect Costs ***See attached spreadsheet	$0.00	$27,048.45	$27,048.45
TOTAL FUNDING	$120,437.09	$35,290.94	$155,728.03
PERCENT CONTRIBUTION	77%	23%	100%

Project Benefits

Documentation

Grantees will provide enforcement data to the DPS on a quarterly basis to include:

- investigations conducted/resolved,
- arrests made (felony/misdemeanor),
- charges filed (felony/misdemeanor), and
- documents recovered, number/type (fictitious or actual).

The DPS will provide enforcement data sheets and instructions for completion to grantees. Enforcement data sheets will be due to designated personnel at the DPS no later than 15 days after the quarter closes (due dates of December 15, March 15, June 15, and September 15).

Grantees will notify the DPS about major investigations related to vehicle inspection/emissions. Notifications will be made on forms provided by the DPS. Notifications to the DPS will be expected within five (5) business days after the finalization of the case (arrests, indictments, or major media story revealing the investigation). The DPS will provide to grantees criteria for major investigations determination. Grantees will provide the DPS additional facts about investigations should the DPS deem it necessary to determine crime trends, etc.

Grantees will send to the DPS information regarding new crime trends to include pictures, written documentation, and other reasonable means determined by the DPS.

The DPS will analyze reported data to develop specific goals, objectives, and strategies for the next calendar year and long term.

In addition to local efforts, as identified, the DPS will send tips/leads to grantees for investigative consideration including: high emitters using remote sensing technology, counterfeit insignia, counterfeit vehicle inspections reports, and clean scanning or other masking techniques.

County LIP Certification

{County} makes the following certifications regarding the projects included with the accompanying Project Summaries:

1. The projects were selected in accordance with the procedures set forth in the grant agreement with the Texas Commission on Environmental Quality (TCEQ);

2. The project proposals have been fully evaluated and determined to fit within the minimum criteria and standards established by the TCEQ for this program, as well as more specific standards established for the project categories by the County;

3. The project proposals are consistent with and directly support implementation of the Texas Health and Safety Code, 382.220;

4. The governing body of {County} officially approved the selection and scope of work of this project on {date} and has authorized the person signing this proposal to make the preceding certifications and act on behalf of {County}.

5. This is to certify that I have reviewed the proposed LIP project/budget and to the best of my knowledge, all costs and expenses are applicable as listed. The project will be conducted in accordance with the standards and reporting requirements listed in the LIP contract between the TCEQ and the County. Non-substantive changes may be made to this project for clarification purposes or refinement so long as the project goal(s) and funding amounts do not change.

Authorized Signature: _____

Type/Printed Name: _____

Type/Printed Title: _____

Date: _____

Instructions

This document provides the forms necessary for Participating Counties to submit enforcement projects for LIP funding to the TCEQ. These forms must be used by the County to submit enforcement projects to the TCEQ for review and approval.

Eligible Projects with This Form

This grant application form is specifically designed for enforcement projects. An enforcement project must be implemented in consultation with the TCEQ and the DPS. Projects eligible for funding with this grant application form may include projects to:

- develop and implement programs or systems that remotely determine vehicle emissions and notify the vehicle's operator;
- develop and implement projects in coordination with the director of Department of Public Safety for coordinating with local law enforcement officials to reduce the use of counterfeit registration insignia and vehicle inspection reports by providing local law enforcement officials with funds to identify vehicles with counterfeit registration insignia and vehicle inspection reports and to carry out appropriate actions.

Project Budget

Budget figures must be exact on all pages of the proposal.

LIP funds may not be expended for local government fleet or vehicle acquisition or replacement, call center management, application oversight, invoice analysis, education, outreach, or advertising purposes.

The DPS does not foresee that grantees will need to procure mandatory equipment to implement these programs. Equipment needs are left to the local agencies for justification.

Certification

The County LIP Certification form serves as written certification by the County that the project was reviewed for eligibility and found to meet the minimum criteria. It must be submitted as part of the Enforcement Grant Application.

Application Process

The TCEQ will review the project proposal and notify the County of any project or project components that the TCEQ determines may not meet project eligibility criteria under the terms of the grant agreement, or for which there may be a question about the project. The County is required to respond to any request from the TCEQ for additional information concerning a project.

The County may not proceed with a project until notified that it may do so by the TCEQ. Any modification, after the TCEQ approval, to a project budget or to project activities must be approved in writing by the TCEQ. The County may rescind the proposal at any time during the review of the project.

CONTRACT AMENDMENT TO THE INTERGOVERNMENTAL COOPERATIVE REIMBURSEMENT AGREEMENT BETWEEN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND WILLIAMSON COUNTY

AMENDMENT NUMBER 2

Pursuant to Section 1.2 (Amendments) of the General Terms and Conditions of the Agreement, TCEQ and Williamson County (Grantee) agree to amend Contract Number 582-14-40118 to extend the Expiration Date of the Agreement from August 31, 2017 to June 28, 2019.

1. The Maximum TCEQ Obligation is amended as follows:

Amendment History	Fiscal Year	Contract Amount
Original Amount	FY14	$7,758.00
Original Amount	FY15	$7,758.00
Original Amount	FY16	~~$7,758.00~~
Original Amount	FY17	~~$7,758.00~~
Amendment 1 (Adding $52,484.00 in additional funding for FY16)	FY16	$60,242.00
Amendment 1 (Adding $52,484.00 in additional funding for FY17)	FY17	$60,242.00
Amendment 2 (Time Extension)	N/A	N/A
Total Maximum TCEQ Obligation:		$136,000.00

2. In accordance with the Agreement, FY15 funds must be expended by August 31, 2017. FY16 funds must be expended by August 31, 2018 and FY17 funds must be expended by June 28, 2019, provided that the Agreement has not been terminated or otherwise expired prior to these dates.

All other conditions and requirements of Contract Number 582-14-40118 remain unchanged and shall apply to all provisions specified herein.

TCEQ:

Texas Commission on Environmental Quality

(Signature)

Donna F. Huff
(Printed Name)

Section Manager, Air Quality Planning
(Title)

Date: 8/17/17

Grantee:

Williamson County

(Signature)

The Honorable Dan A. Gattis
(Printed Name)

County Judge
(Title)

Date: 08-14-2017

Commissioners Court - Regular Session **31.**

Meeting Date: 10/17/2017

Community Development Block Grant Granger Funding Transfer

Submitted By: Sally Bardwell, HUD Grants

Department: HUD Grants

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss and take appropriate action on transferring $70,000 from the Fiscal Year 2016 Community Development Block Grant Granger Sewer Project to the Fiscal Years 2014 and 2015 Community Development Block Grant Granger Drainage Project.

Background

The City of Granger was awarded FY16 CDBG funds in the amount of $329,500. These funds were allocated to a sewer project which included the replacement of an existing lift station, 750 linear feet of 2-inch force main pipe, 6-inch gravity PVC pipe, two manholes and associated project incidentals. The project bid came in approximately $107,000 under budget.

The City would like to reallocate $70,000 from this project to the FY14 and FY15 Drainage Improvement Project. This project was previously funded $332,700. However, during the construction phase it was discovered that a nearby waterline was asbestos concrete and was only approximately 12” deep. The line was also located outside of the right-of-way.

The City would like to utilize the extra funds allocated to the 2016 project to move and replace the waterline associated with the FY14 and 15 Drainage Project.

Approving this request will trigger a substantial amendment to the Annual Action Plan which will require a 30 day public comment period.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Sally Bardwell		Started On: 10/11/2017 04:17 PM
Final Approval Date: 10/12/2017		

Commissioners Court - Regular Session **32.**

Meeting Date: 10/17/2017

LPPF

Submitted For: Dan Gattis **Submitted By:** Rebecca Clemons, County Judge

Department: County Judge

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on the creation and authorization of a Williamson County Local Provider Participation Fund pursuant to Chapter 292B of the Texas Health & Safety Code, adoption of Williamson County Health Care Participation Program Rules and Procedures governing the operations of a Local Provider Participation Program and setting the rate associated with mandatory provider participation payments that Williamson County may require of all local hospitals for fiscal year (FY) 2018 and how the revenue derived from those payments may be spent.

Background

This item is on for discussion and will be on the agenda again next week to coincide with a public hearing.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

hospitals

uhrip

bill

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst. (Originator)	Wendy Coco	10/11/2017 09:34 AM
Form Started By: Rebecca Clemons		Started On: 10/10/2017 01:16 PM
Final Approval Date: 10/11/2017		

Williamson County Hospitals in Service Delivery Area		
NAME	**ADDRESS**	**CITY**
BAYLOR SCOTT & WHITE EMERGENCY MEDICAL CENTER CEDAR PARK	900 EAST WHITESTONE BLVD	CEDAR PARK
BAYLOR SCOTT & WHITE MEDICAL CENTER - ROUND ROCK	300 UNIVERSITY BLVD	ROUND ROCK
BAYLOR SCOTT & WHITE MEDICAL CENTER - TAYLOR	305 MALLARD LANE	TAYLOR
CEDAR PARK REGIONAL MEDICAL CENTER	1401 MEDICAL PARKWAY	CEDAR PARK
CORNERSTONE HOSPITAL AUSTIN - ROUND ROCK	4681 COLLEGE PARK DRIVE	ROUND ROCK
HEALTHSOUTH REHABILITATION HOSPITAL OF ROUND ROCK	1400 HESTERS CROSSING	ROUND ROCK
ROUND ROCK MEDICAL CENTER	2400 ROUND ROCK AVENUE	ROUND ROCK
SETON MEDICAL CENTER WILLIAMSON	201 SETON PARKWAY	ROUND ROCK
ST DAVIDS GEORGETOWN HOSPITAL A ST DAVIDS MEDICAL CENTER FACILI	2000 SCENIC DRIVE	GEORGETOWN
ST DAVIDS SURGICAL HOSPITAL A CAMPUS OF NORTH AUSTIN MEDICAL CT	1201 W LOUIS HENNA BLVD	AUSTIN
GEORGETOWN BEHAVIORAL HEALTH INSTITUTE LLC	3101 S AUSTIN AVE	GEORGETOWN
ROCK SPRINGS	700 SOUTHEAST INNER LOOP	GEORGETOWN

Uniform Hospital Rate Increase Program
Information and Checklist

The Texas Health and Human Services Commission (HHSC) has received approval from the Centers for Medicare and Medicaid Services (CMS) to implement the Uniform Hospital Rate Increase Program (UHRIP) for hospital services beginning March 1, 2018, in the El Paso and Bexar managed care service delivery areas (SDA) and is currently seeking approval for additional SDAs . If approved, the rate increases would reduce hospitals' Medicaid shortfall in the SDAs in which they are implemented.

This information and checklist is intended to guide hospitals and governmental entities within a Medicaid managed-care SDA in (1) understanding the uniform rate increase proposal; (2) evaluating the feasibility and benefits of implementing uniform rate increases within their SDAs; and (3) timely submitting the required information for HHSC to determine whether a rate increase can be implemented in the SDA beginning March 1, 2018.

KEY COMPONENTS OF THE REGIONAL UNIFORM RATE INCREASE PROPOSAL:

- An SDA must have at least one governmental entity that agrees to provide the non-federal share of all expenditures under the program in that SDA for at least one state fiscal year, including state administrative costs, as well as risk margins, premium taxes, and administrative fees included in payments to the managed care organizations (MCOs).
    - This source of intergovernmental transfer (IGT) funding is required because HHSC is contractually obligated to pay the MCOs in the SDA a capitation payment that includes amounts attributable to the directed rate increase
    - IGT commitments cannot be contingent on any condition
    - If an SDA has more than one sponsoring governmental entity, the governmental entities must work cooperatively to provide a unified IGT commitment proposal to HHSC. If the proposal is approved, the governmental entities will be allowed to make separate transfers to HHSC.
    - IGT commitments may be reduced from the time of the initial commitment to the time that the rate increases are finalized. They cannot be increased. In addition, requested reassignments of initial IGT commitments to other governmental entities will not be entertained.
    - Sponsoring governmental entities must identify the classes of hospital that the governmental entities prefer to sponsor, the type of service subject to a rate increase (inpatient, outpatient, or both) and the rate increases for each class of hospital in the SDA.
- Each SDA must identify one governmental entity that will act as a liaison between HHSC and the MCOs and hospitals in the SDA participating in UHRIP. Among the responsibilities of the liaison would be to:
    - Coordinate the amounts of IGT commitment by each sponsoring governmental entity in that SDA
    - Notify hospitals in the SDA of the UHRIP being proposed for the SDA and confirm their willingness to participate
    - Work with the MCOs and hospitals to ensure agreement among all parties in the SDA to participate in UHRIP
    - Provide information to HHSC including but not limited to list of hospitals in the SDA and, for those hospitals that do not participate in the Disproportionate Share Hospital (DSH) or Uncompensated Care (UC) waiver payments programs, the Medicaid shortfall derived from these hospitals' S-10 worksheet
    - The amount of funds the sponsoring governmental entities agree to transfer for March through August of 2018.
- HHSC has identified the following classes of hospital within each SDA eligible for the rate increase:
    - children's hospitals;
    - non-urban public hospitals;
    - rural private hospitals;

DRAFT

  - rural public hospitals;
  - state-owned hospitals;
  - urban public hospitals; and
  - all other hospitals, except institutions for mental diseases.
- All MCOs within the SDA will be required to pay the increased rates to all contracted hospitals within each identified class.
- All MCO-contracted hospitals within an identified class will receive the same percentage rate increase from the base rate (generally, the rate paid to the hospital by the MCO before the rate increase).
- The percentage rate increases may vary between classes.
- The rate increases may apply to all or a subset of inpatient services, outpatient services, or both, as determined by HHSC.
- Sponsoring governmental entities will have input into decisions about classes of hospital, services subject to the rate increases, and the percentage increase applicable to each class, but HHSC retains the final decision-making authority on these aspects of the program.
- Sponsoring governmental entities must be able to transfer the estimated amount of expenditures for the rate increases in the SDA for second six months of state fiscal year 2018, plus ten percent that will be retained by HHSC unless needed to cover higher-than-expected expenditures, no later than November 1, 2017.
- Sponsoring governmental entities must transfer additional funds at such times and in such amounts as determined by HHSC to be necessary to ensure the availability of funding of the non-federal share of the state's expenditures for the remainder of the fiscal year.
- CMS must approve the capitation rates paid to MCOs and HHSC's contracts with Medicaid MCOs that include the directed rate increases.

Because of the complexities of this program, stakeholders interested in learning more about implementing a uniform hospital managed-care rate increase in their SDA should contact HHSC's lead on this program, Gary Young, at (512) 707-6098 or gary.young@hhsc.state.tx.us.

HHSC will be holding webinars for all stakeholders on the UHRIP program and on how to complete UHRIP applications at a later date.

DRAFT

AN ACT

relating to the creation and operations of health care provider participation programs in certain counties.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF TEXAS:

SECTION 1. Subtitle D, Title 4, Health and Safety Code, is amended by adding Chapter 292B to read as follows:

CHAPTER 292B. COUNTY HEALTH CARE PROVIDER PARTICIPATION PROGRAM IN CERTAIN COUNTIES BORDERING COUNTY CONTAINING STATE CAPITAL

SUBCHAPTER A. GENERAL PROVISIONS

Sec. 292B.001. DEFINITIONS. In this chapter:

(1) "Institutional health care provider" means a nonpublic hospital that provides inpatient hospital services.

(2) "Paying hospital" means an institutional health care provider required to make a mandatory payment under this chapter.

(3) "Program" means the county health care provider participation program authorized by this chapter.

Sec. 292B.002. APPLICABILITY. This chapter applies only to a county that:

(1) is not served by a hospital district or a public hospital;

(2) has a population of more than 400,000; and

(3) is adjacent to the county containing the state capital.

Sec. 292B.003. COUNTY HEALTH CARE PROVIDER PARTICIPATION PROGRAM; PARTICIPATION IN PROGRAM. (a) A county health care provider participation program authorizes a county to collect a mandatory payment from each institutional health care provider located in the county to be deposited in a local provider participation fund established by the county. Money in the fund may be used by the county to fund certain intergovernmental transfers and indigent care programs as provided by this chapter.

(b) The commissioners court may adopt an order authorizing a county to participate in the program, subject to the limitations provided by this chapter.

SUBCHAPTER B. POWERS AND DUTIES OF COMMISSIONERS COURT

Sec. 292B.051. LIMITATION ON AUTHORITY TO REQUIRE MANDATORY PAYMENT. The commissioners court of a county may require a mandatory payment authorized under this chapter by an institutional health care provider in the county only in the manner provided by this chapter.

Sec. 292B.052. MAJORITY VOTE REQUIRED. The commissioners court of a county may not authorize the county to collect a mandatory payment authorized under this chapter without an affirmative vote of a majority of the members of the commissioners court.

Sec. 292B.053. RULES AND PROCEDURES. After the commissioners court of a county has voted to require a mandatory payment authorized under this chapter, the commissioners court may adopt rules relating to the administration of the mandatory payment.

Sec. 292B.054. INSTITUTIONAL HEALTH CARE PROVIDER REPORTING; INSPECTION OF RECORDS. (a) The commissioners court of a county that collects a mandatory payment authorized under this chapter shall require each institutional health care provider to submit to the county a copy of any financial and utilization data required by and reported to the Department of State Health Services under Sections 311.032 and 311.033 and any rules adopted by the executive commissioner of the Health and Human Services Commission to implement those sections.

(b) The commissioners court of a county that collects a mandatory payment authorized under this chapter may inspect the records of an institutional health care provider to the extent necessary to ensure compliance with the requirements of Subsection (a).

SUBCHAPTER C. GENERAL FINANCIAL PROVISIONS

Sec. 292B.101. HEARING. (a) Each year, the commissioners court of a county that collects a mandatory payment authorized under this chapter shall hold a public hearing on the amounts of any mandatory payments that the commissioners court intends to require during the year.

(b) Not later than the fifth day before the date of the hearing required under Subsection (a), the commissioners court of the county shall publish notice of the hearing in a newspaper of general circulation in the county.

(c) A representative of a paying hospital is entitled to appear at the public hearing and to be heard regarding any matter related to the mandatory payments authorized under this chapter.

Sec. 292B.102. DEPOSITORY. (a) The commissioners court of each county that collects a mandatory payment authorized under this chapter by resolution shall designate one or more banks located in the county as the depository for mandatory payments received by the county.

(b) All income received by a county under this chapter, including the revenue from mandatory payments remaining after discounts and fees for assessing and collecting the payments are deducted, shall be deposited with the county depository in the county's local provider participation fund and may be withdrawn only as provided by this chapter.

(c) All funds under this chapter shall be secured in the manner provided for securing county funds.

Sec. 292B.103. LOCAL PROVIDER PARTICIPATION FUND; AUTHORIZED USES OF MONEY. (a) Each county that collects a mandatory payment authorized under this chapter shall create a local provider participation fund.

(b) The local provider participation fund of a county consists of:

(1) all revenue received by the county attributable to mandatory payments authorized under this chapter, including any penalties and interest attributable to delinquent payments;

(2) money received from the Health and Human Services Commission as a refund of an intergovernmental transfer from the county to the state for the purpose of providing the nonfederal share of Medicaid supplemental payment program payments, provided that the intergovernmental transfer does not receive a federal

matching payment; and

(3) the earnings of the fund.

(c) Money deposited to the local provider participation fund may be used only to:

(1) fund intergovernmental transfers from the county to the state to provide:

(A) the nonfederal share of a Medicaid supplemental payment program authorized under the state Medicaid plan, the Texas Healthcare Transformation and Quality Improvement Program waiver issued under Section 1115 of the federal Social Security Act (42 U.S.C. Section 1315), or a successor waiver program authorizing similar Medicaid supplemental payment programs; or

(B) payments to Medicaid managed care organizations that are dedicated for payment to hospitals;

(2) subsidize indigent programs;

(3) pay the administrative expenses of the county solely for activities under this chapter;

(4) refund a portion of a mandatory payment collected in error from a paying hospital; and

(5) refund to paying hospitals the proportionate share of money received by the county that is not used to fund the nonfederal share of Medicaid supplemental payment program payments.

(d) Money in the local provider participation fund may not be commingled with other county funds.

(e) An intergovernmental transfer of funds described by

Subsection (c)(1) and any funds received by the county as a result of an intergovernmental transfer described by that subsection may not be used by the county or any other entity to expand Medicaid eligibility under the Patient Protection and Affordable Care Act (Pub. L. No. 111-148) as amended by the Health Care and Education Reconciliation Act of 2010 (Pub. L. No. 111-152).

SUBCHAPTER D. MANDATORY PAYMENTS

Sec. 292B.151. MANDATORY PAYMENTS BASED ON PAYING HOSPITAL NET PATIENT REVENUE. (a) Except as provided by Subsection (e), the commissioners court of a county that collects a mandatory payment authorized under this chapter may require an annual mandatory payment to be assessed on the net patient revenue of each institutional health care provider located in the county. The commissioners court may provide for the mandatory payment to be assessed quarterly. In the first year in which the mandatory payment is required, the mandatory payment is assessed on the net patient revenue of an institutional health care provider as determined by the data reported to the Department of State Health Services under Sections 311.032 and 311.033 in the fiscal year ending in 2015 or, if the institutional health care provider did not report any data under those sections in that fiscal year, as determined by the institutional health care provider's Medicare cost report submitted for the 2015 fiscal year or for the closest subsequent fiscal year for which the provider submitted the Medicare cost report. The county shall update the amount of the mandatory payment on an annual basis.

(b) The amount of a mandatory payment authorized under this

chapter must be uniformly proportionate with the amount of net patient revenue generated by each paying hospital in the county. A mandatory payment authorized under this chapter may not hold harmless any institutional health care provider, as required under 42 U.S.C. Section 1396b(w).

(c) The commissioners court of a county that collects a mandatory payment authorized under this chapter shall set the amount of the mandatory payment. The amount of the mandatory payment required of each paying hospital may not exceed six percent of the paying hospital's net patient revenue.

(d) Subject to the maximum amount prescribed by Subsection (c), the commissioners court of a county that collects a mandatory payment authorized under this chapter shall set the mandatory payments in amounts that in the aggregate will generate sufficient revenue to cover the administrative expenses of the county for activities under this chapter, to fund an intergovernmental transfer described by Section 292B.103(c)(1), and to pay for indigent programs, except that the amount of revenue from mandatory payments used for administrative expenses of the county for activities under this chapter in a year may not exceed the lesser of four percent of the total revenue generated from the mandatory payment or $20,000.

(e) A paying hospital may not add a mandatory payment required under this section as a surcharge to a patient.

Sec. 292B.152. ASSESSMENT AND COLLECTION OF MANDATORY PAYMENTS. The county may collect or contract for the assessment and collection of mandatory payments authorized under this chapter.

Sec. 292B.153. INTEREST, PENALTIES, AND DISCOUNTS. Interest, penalties, and discounts on mandatory payments required under this chapter are governed by the law applicable to county ad valorem taxes.

Sec. 292B.154. PURPOSE; CORRECTION OF INVALID PROVISION OR PROCEDURE. (a) The purpose of this chapter is to generate revenue by collecting from institutional health care providers a mandatory payment to be used to provide the nonfederal share of a Medicaid supplemental payment program.

(b) To the extent any provision or procedure under this chapter causes a mandatory payment authorized under this chapter to be ineligible for federal matching funds, the county may provide by rule for an alternative provision or procedure that conforms to the requirements of the federal Centers for Medicare and Medicaid Services.

SECTION 2. If before implementing any provision of this Act a state agency determines that a waiver or authorization from a federal agency is necessary for implementation of that provision, the agency affected by the provision shall request the waiver or authorization and may delay implementing that provision until the waiver or authorization is granted.

SECTION 3. This Act takes effect immediately if it receives a vote of two-thirds of all the members elected to each house, as provided by Section 39, Article III, Texas Constitution. If this Act does not receive the vote necessary for immediate effect, this Act takes effect September 1, 2017.

President of the Senate

Speaker of the House

I certify that H.B. No. 3954 was passed by the House on April 27, 2017, by the following vote: Yeas 141, Nays 3, 3 present, not voting.

Chief Clerk of the House

I certify that H.B. No. 3954 was passed by the Senate on May 19, 2017, by the following vote: Yeas 29, Nays 2.

Secretary of the Senate

APPROVED: _____

Date

_____

Governor

Commissioners Court - Regular Session **33.**

Meeting Date: 10/17/2017

Utility Eas Palace

Submitted For: Dan Gattis **Submitted By:** Hal Hawes, County Judge

Department: County Judge

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on a Utility Easement to the City of Georgetown for the placement of an electrical transformer needed for the Palace Theater's construction project located near Rock Street in Georgetown, Texas.

Background

The easement is basically a small 6' X 17' easement for the placement of an electrical transformer needed for the Palace Theater's
construction project located across Rock Street from said easement. The easement will be located near the parking lot along the North side of Third Street, across from Williamson County's above ground parking garage (see diagram in Exhibit A of Easement).

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Utility Easement Palace Project

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/05/2017 12:08 PM
Form Started By: Hal Hawes		Started On: 10/05/2017 11:59 AM
Final Approval Date: 10/05/2017		

UTILITY EASEMENT

STATE OF TEXAS §
§ **KNOW ALL MEN BY THESE PRESENTS:**
COUNTY OF WILLIAMSON §

This Agreement (this "Agreement") is made on the 10th day of October, 2017, at Georgetown, Texas, between Williamson County, Texas, a political subdivision of the State of Texas, whose address is Attn: Dan. A. Gattis, County Judge, 710 Main Street, Ste. 101, Georgetown, Williamson County, Texas 78626 (hereinafter referred to as "Grantor"), and the City of Georgetown, a Texas home-rule municipal corporation, whose address is P.O. Box 409 Georgetown, Texas 78627, ATTN: Georgetown City Secretary (herein referred to as "Grantee").

1. For the good and valuable consideration described in Paragraph 2 below, Grantor hereby GRANTS, SELLS and CONVEYS to Grantee, its successors and assigns, an EXCLUSIVE easement and right-of-way (the "Easement") for the placement, construction, operation, repair, maintenance, replacement, upgrade, rebuilding, relocation and/or removal of electric utility and telecommunication lines and related facilities (collectively, the "Facilities") on, over, under, and across the following described property of the Grantor, to wit:

   > Being all that certain tract, piece or parcel of land lying and being situated in the County of Williamson, State of Texas, being more particularly described by metes and bounds in **Exhibit A** and by diagram in **Exhibit B** attached hereto and made a part hereof for all purposes (herein sometimes referred to as the "Easement Area" or the "Property").

2. The Easement and the rights and privileges herein conveyed, are granted for and in consideration of the sum of One and No/100 Dollars ($1.00) and other good and valuable consideration to Grantor in hand paid by Grantee, the receipt and sufficiency of which is hereby acknowledged and confessed.

3. The Easement, with its rights and privileges, shall be used only for the purpose of placing, constructing, operating, repairing, maintaining, rebuilding, replacing, upgrading, relocating, and/or removing the Facilities. The Easement additionally includes the following rights: (1) the right to change the size of the Facilities; (2) the right to relocate the Facilities within the Easement; and (3) the right to remove from the Easement all trees and parts thereof, or other obstructions, which endanger or may interfere with the efficiency and maintenance of the Facilities.

4. The duration of the Easement is perpetual.

5. Grantor and Grantor's heirs, personal representatives, successors, and assigns are and shall be bound to WARRANT and FOREVER DEFEND the Easement and the rights

conveyed in this Agreement to Grantee and Grantee's successors and assigns, against every person lawfully claiming or to claim all or any part thereof.

6. The Easement, and the rights and privileges granted by this Agreement, are EXCLUSIVE to Grantee, and Grantee's successors and assigns, and Grantor covenants that Grantor shall not convey any other easement, license, or conflicting right to use in any manner, the area (or any portion thereof) covered by this grant.

7. This Agreement contains the entire agreement between the parties relating to its subject matter. Any oral representations or modifications concerning this Agreement shall be of no force and effect. Any subsequent amendment or modification must be in writing and agreed to by all parties.

8. The terms of this Agreement shall be binding upon Grantor, and Grantor's heirs, personal representatives, successors, and assigns; shall bind and inure to the benefit of the Grantee and any successors or assigns of Grantee; and shall be deemed to be a covenant running with the land.

IN WITNESS WHEREOF, Grantor has caused this instrument to be executed on this 10th day of October, 2017.

GRANTOR:

Williamson County, Texas, a political Subdivision of the State of Texas

_____

By: Dan A. Gattis, County Judge

STATE OF TEXAS §

§

COUNTY OF WILLIAMSON §

This instrument was acknowledged before me on this the 10th day of October, 2017, by Dan A. Gattis, as County Judge of Williamson County, Texas.

_____

Notary Public, State of Texas

APPROVED AS TO FORM:

_____

_____, Asst. City Attorney

Exhibit "A"

MATKIN HOOVER
ENGINEERING & SURVEYING
8 SPENCER ROAD, SUITE 100, BOERNE, TEXAS 78006
PHONE: 830-249-0600 FAX: 830-249-0099
TEXAS REGISTERED SURVEYING FIRM F-10024000

FIELD NOTES FOR A VARIABLE WIDTH UTILITY EASEMENT (105 SQ FEET)

BEING A VARIABLE WIDTH UTILITY EASEMENT (105 SQ FEET) LOCATED ON LOT 1, BLOCK 3, WILLIAMSON COUNTY CRIMINAL JUSTICE FACILITY, RECORDED IN DOCUMENT NO. 8905476, CABINET J, SLIDE 214, PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS, SAID VARIABLE WIDTH GUS UTILITY EASEMENT (105 SQ FEET) BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

Beginning at a calculated point in the west right-of-way line of Rock Street, the east boundary line of Lot 1, Block 3, said point bears **S 02° 08' 34" E, a distance of 31.27'** from the northeast corner of Lot 1, Block 3;

(1) **Thence, S 02° 08' 34" E,** with the west right-of-way line of Rock Street, the east boundary line of the Lot 1, Block 3, the east line of the herein described easement, **a distance of 17.00'** to a calculated point for corner, said point bears **N 02° 08' 34" W, a distance of 131.73'** from the southeast corner of Lot 1, Block 3;

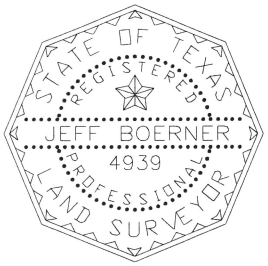
(2) **Thence,** departing the west right-of-way line of Rock Street, the east boundary line of Lot 1, Block 3, with the south, west, and north lines of the herein described easement, the following courses and distances:

a. **S 87° 50' 18" W, 6.19'** to a calculated point for corner;

b. **N 02° 09' 42" W, 17.00'** to a calculated point for corner;

c. **N 87° 50' 18" E, 6.20'** to the **POINT OF BEGINNING** for this **Variable Width GUS Utility Easement**, containing **105 Square Feet**, more or less.

Note: The basis of bearing was established using the Trimble VRS Network, NAD (83), Texas State Plane Coordinate System, Central Zone, US Survey Foot, Grid. A survey plat was prepared by a separate document.



Jeff Boerner Date: 09-19-2017
RPLS #4939
Job #16-4018 V.W. Utility Easem't

Exhibit "B"

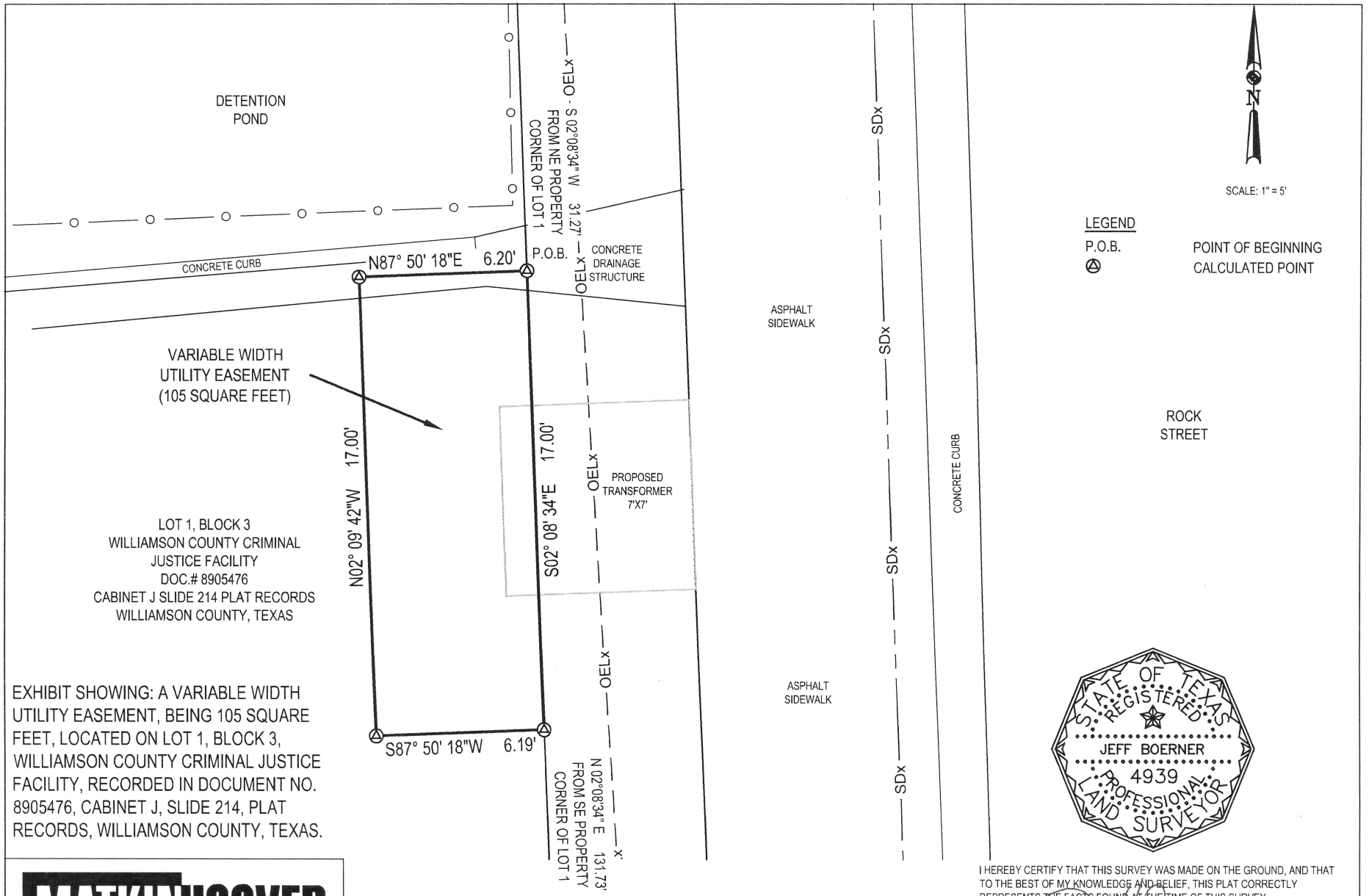


EXHIBIT SHOWING: A VARIABLE WIDTH UTILITY EASEMENT, BEING 105 SQUARE FEET, LOCATED ON LOT 1, BLOCK 3, WILLIAMSON COUNTY CRIMINAL JUSTICE FACILITY, RECORDED IN DOCUMENT NO. 8905476, CABINET J, SLIDE 214, PLAT RECORDS, WILLIAMSON COUNTY, TEXAS.

MATKINHOOVER ENGINEERING & SURVEYING

P.O. BOX 54
8 SPENCER ROAD SUITE 100
BOERNE, TEXAS 78006
OFFICE: 830.249.0600 FAX:830.249.0099
TEXAS REGISTERED ENGINEERING FIRM F-004512
TEXAS REGISTERED SURVEYING FIRM F-10024000
CIVIL ENGINEERS SURVEYORS LAND PLANNERS
CONSTRUCTION MANAGERS CONSULTANTS

NOTES:
1) FIELD WORK PERFORMED ON: SEPTEMBER 8, 2017
2) A METES AND BOUNDS DESCRIPTION WAS PREPARED BY A SEPARATE DOCUMENT.
3) THIS SURVEY WAS DONE WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT, THEREFORE ALL SETBACKS, EASEMENTS, ENCUMBRANCES AND RESTRICTIONS MAY NOT BE SHOWN HEREON. THE SURVEYOR DID NOT COMPLETE AN ABSTRACT OF TITLE.

STATE OF TEXAS REGISTERED JEFF BOERNER 4939 PROFESSIONAL LAND SURVEYOR

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND, AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS PLAT CORRECTLY REPRESENTS THE FACTS FOUND AT THE TIME OF THIS SURVEY.

JEFF BOERNER DATE: SEPTEMBER 19, 2017
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 4939
JOB NO. 16-4018 - VARIABLE WIDTH UTILITY EASEMENT

Commissioners Court - Regular Session **34.**

Meeting Date: 10/17/2017

Historic Jail Use Agreement

Submitted For: Dan Gattis **Submitted By:** Connie Watson, County Judge

Department: County Judge

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on an authorized use agreement with Mirth Films to film in the historic jail on Wednesday, October 18, 2017.

Background

Mirth Films is creating a short film in which a jail scene takes place. They have viewed the historic jail with Lt. Pete Hughey, board president of Williamson County Brown Santa, and have seen the cells that are not part of the haunted jail and are available for use.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

AUA Mirth Films

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 10:17 AM
Form Started By: Connie Watson		Started On: 10/12/2017 09:48 AM
Final Approval Date: 10/12/2017		

AUTHORIZED USER AGREEMENT

This Authorized User Agreement (the "Agreement") is made between Williamson County, Texas, a political subdivision of the State of Texas ("County") and the party named as user on the execution page of this Agreement ("USER").

RECITALS

WHEREAS, COUNTY has the right to operate and use the area or real property described in Exhibit "A"; and

WHEREAS, USER desires to use the area or real property described in Exhibit "A".

AGREEMENT

NOW THEREFORE, and in consideration of the following promises, covenants, and conditions, the COUNTY and USER (the "Parties") agree as follows:

1. USE:

In exchange for the fee described on Exhibit "A" hereto (the "License Fee"), the COUNTY does hereby grant, subject to the terms and provisions hereof, to USER permission to use the area specified in Exhibit "A" (the "Authorized Area"), for the use described in Exhibit "A" hereto, and no other purpose (the "Permitted Use").

2. CANCELLATION AND SECURITY DEPOSIT:

(a) Cancellation. USER's cancellation or failure to occupy the Authorized Area, as set forth herein, will result in the forfeiting of the License Fee. Furthermore, in the event USER fails to utilize the Authorized Area reserved herein on the date and at the time specified and for the use specified, COUNTY shall have the right to elect, in its sole and absolute discretion, in addition to any other remedy available at law or in equity, to terminate this Agreement.

(b) Security Deposit. Following USER's execution of this Agreement and prior to USER's use of the Authorized Area, USER shall deposit with COUNTY the security deposit amount set forth in Exhibit "A", as security for faithful performance of the terms of the Agreement. The deposit shall be held in a separate account for the benefit of USER, and it shall be returned to USER, without interest and less any lawful deductions of same, within ten (10) days of the expiration or termination of this Agreement.

COUNTY may deduct all reasonable charges from the security deposit, which shall include but not be limited to charges for (a) unpaid amounts and fees owing by USER under this Agreement; (b) costs of cleaning and repairing the

Authorized Area and its contents for which USER is responsible; and/or (c) other items USER is responsible to pay under the terms of the Agreement.

In the event the deductions from the security deposit exceeds the amount of the security deposit, USER will pay COUNTY the excess amount within ten (10) days after COUNTY makes written demand on USER. The security deposit will be applied first to any non-rent items then to any unpaid amounts or fees under this Agreement.

3. SERVICES AND AMENITIES; ALTERATIONS:

(a) In the event that COUNTY provides, or causes to be provided, the following amenities and services (if such amenities and services are available at the Authorized Area), USER shall be obligated, within ten (10) days of USER's use of the Authorized Area, to pay the actual costs incurred by COUNTY for such amenities and services:

i. Heating, air conditioning, and ventilation as reasonably required for comfortable use and occupancy of the fully enclosed portion, if any, of the Authorized Area.

ii. Electric current adequate for the Permitted Use.

iii. Ordinary repair and maintenance of the interior and exterior of the Authorized Area made necessary by normal wear and tear.

USER hereby acknowledges that the above described amenities and services may not be available at or on the Authorized Area. USER is hereby given notice that it shall be USER's responsibility to inspect the Authorized Area prior to executing this Agreement in order to ensure that the Authorized Area and the Permitted Use is suitable for USER's intended use and purpose. Furthermore, no interruption or malfunction of any service shall constitute an eviction or disturbance of USER's use and possession of the Authorized Area or breach by COUNTY of any of its obligations hereunder or render COUNTY liable for damages or entitle USER to be relieved of any obligation hereunder. In the event of any such interruption, COUNTY shall use reasonable diligence to restore such service.

(b) Alterations. USER shall not make any permanent alterations, additions or improvements (painting, building walls or structures, constructing improvements that would damage the Authorized Area upon removal of such improvements, installation of landscaping, etc.) to the Authorized Area or maintain signs or banners without, in each case, obtaining the consent of COUNTY. If any alterations, additions, or improvements in or to the Authorized Area are made necessary by reason of the use of the Authorized Area by USER and, provided that COUNTY grants its prior permission to USER regarding such alterations, additions or improvements, USER agrees that it will make all such alterations, additions, and improvements in or to the Authorized Area at its own expense and

in compliance with all building codes, ordinances, and governmental regulations pertaining to such work, use, or occupancy. **In accordance with indemnification provision set out herein, USER agrees that it will hold COUNTY harmless against all expenses, liens, claims, and damages to either property or person that may or might arise because any repairs, alterations, additions, or improvements are made.**

USER agrees to restore, at USER's sole expense, the Authorized Area to its original condition upon the termination or expiration of this Agreement; provided, however, COUNTY may, in its sole discretion, choose to retain any alterations, additions, or improvements and not require USER to remove them.

4. CLEANING OF AUTHORIZED AREA:

USER shall provide any and all janitorial and cleaning services immediately after USER's use of the Authorized Area so that the Authorized Area is cleaned and restored to the condition in which the same was found before USER used such area.

5. PAYMENT REQUIREMENTS:

(a) All payments are to be made payable to Williamson County and shall be paid upon the USER's execution and delivery of this Agreement to the COUNTY .

(b) In the event of a cancellation, as set forth above, all License Fees and payments will not be refunded. All additional costs for labor and services supplied must be paid for by USER directly if a deposit has not been paid at the time of the cancellation.

(c) All deposits and payments will be credited against costs when invoiced. Incidental costs and balance of any fees that may be due, if any, are due upon receipt of invoice.

6. CERTIFICATE OF INSURANCE:

USER shall provide COUNTY with a certificate of insurance evidencing comprehensive liability and property damage insurance with coverage of at least one million dollars ($1,000,000) combined single limit. The coverage must be on a per occurrence basis and must be issued by a company licensed to provide such coverage in the State of Texas. The COUNTY shall be named as an additional insured.

All insurance provided by USER shall provide that the same is, in relation to any insurance maintained by COUNTY, primary and such other insurance maintained by COUNTY shall be excess or non-contributory.

7. PARKING; STORAGE:

All tents, vehicles, trailers and equipment parked or situated in, on or around the Authorized Area shall be parked in accordance with COUNTY's requirements, state law and/or local municipal ordinances. In advance of use of the Authorized Area, USER must submit to COUNTY a plan that depicts the areas that USER would like to use for parking and storage. COUNTY shall, in its sole discretion, instruct USER as to the allowable areas for USER's parking and storage.

8. INTERRUPTION OR TERMINATION OF PERMITTED USE

COUNTY shall retain the rights to cause the interruption of any Permitted Use in the interest of public safety, and to likewise cause the termination of such Permitted Use when, in the sole judgment of COUNTY, such act is necessary in the interests of public safety.

9. MANAGEMENT AND SAFETY:

In permitting the occupancy of Authorized Area by USER, COUNTY retains and does not relinquish the right to issue and enforce such rules, regulations and directives as it may deem necessary for the safe, orderly and commercially sound operation of the Authorized Area. COUNTY employees and agents may enter and have access to the areas furnished hereunder at any time, and authorized personnel may enter at reasonable times necessary to the performance of their duties. COUNTY reserves the right to eject any objectionable person or persons from the Authorized Area, including and upon the exercise of this authority through COUNTY, its agents or officers, **the USER, on behalf of itself, its agents and employees, hereby waives any rights and all claims for damages against COUNTY arising from such occurrences.** The USER agrees that it will not allow any person at, in or about the Authorized Area who shall, upon reasonable nondiscriminatory grounds, be objected to by COUNTY. Such person's right to use the Authorized Area and the Authorized Area therein may be revoked by COUNTY. Unless otherwise specified in writing, COUNTY shall be entitled to schedule other events similar to the Permitted Uses both before and after the date of this Agreement without notice to USER.

USER shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the USER's use of the Authorized Area. USER shall take all reasonable precautions for the safety of and shall provide all reasonable protection to prevent damage, injury or loss to USER and/or its agents, contractors, employees, patrons, performers or guests, all other persons in, on or around the Authorized Area and all property in, on or around the Authorized Area, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities.

USER shall erect and maintain, as required by existing conditions and the intended use of the Authorized Area, all reasonable safeguards including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent utilities. USER shall protect adjacent properties from

any damage caused by acts of USER, and shall pay for any repairs to same made necessary by any acts of USER.

10. COOPERATION WITH ALL OTHER USERS:

USER acknowledges that COUNTY will make available, for use by others, such portions, areas and facilities of the Authorized Area that are not subject to this Agreement. The USER agrees to cooperate in good faith with COUNTY and those persons using other portions and areas of the Authorized Area.

11. ALCOHOLIC BEVERAGES:

USER hereby acknowledges and agrees that **no** alcoholic beverages shall consumed or possessed by USER its agents, contractors, employees, patrons, performers or guests while in, on or about the Authorized Area.

12. **ASSUMPTION OF RISK:**

USER, in using the Authorized Area and other facilities of the Authorized Area and equipment therein, if any, whether such equipment is specifically described or not, does so at its own risk. COUNTY shall not be liable for any damages to property or damages arising from personal injuries sustained by USER or any of its agents, contractors, employees, patrons, performers or guests, in, on or about the Authorized Area, or of any other portion of the Authorized Area, including buildings, parking area walkways of the Authorized Area, unless such damage or injury is caused by the COUNTY's negligence or willful misconduct. USER assumes full responsibility for any property damage or injury which may occur to USER, its agents, contractors, employees, patrons, performers or guests in, on or about the Authorized Area or other portion of the Authorized Area, unless such damage or injury is caused by the COUNTY's negligence or willful misconduct.

13. **INDEMNIFICATION:**

USER shall conduct its activities upon the Authorized Area so as not to endanger any person thereon and USER agrees to indemnify, defend, and hold harmless COUNTY and its respective officials, officers, agents, employees and representatives (collectively, the "Indemnified Persons") from and against any and all liability, losses, claims, demands, fines, penalties, costs and expenses (including, without limitation, attorneys' fees and litigation expenses) to which any of the Indemnified Persons may become subject by reason of, or in any way related to, (i) the use of the Authorized Area by USER or its agents, contractors, employees, patrons, performers or guests or breaches of applicable codes, laws, rules and regulations by the USER or its agents, contractors, employees, patrons, performers or guests, (ii) any action, omission or negligence, whether in whole or in part, of the USER or its agents, contractors, employees, patrons, performers or guests.

The Indemnified Persons shall not be liable or responsible for, and the USER hereby releases and forever discharges the Indemnified Persons from, any loss, damage or injury to any person or property of USER or its agents, contractors, employees, patrons, performers or guests in, on or around the Authorized Area or other portion of the Authorized Area resulting from any cause whatsoever, including but not limited to theft and vandalism. In no event shall any Indemnified Persons be liable to USER or its agents, contractors, employees, patrons, performers or guests for any consequential, special, exemplary or punitive damages suffered or incurred by USER or its agents, contractors, employees, patrons, performers or guests as a result of the actions or omissions of any Indemnified Person.

14. CAPACITY:

USER shall not permit, nor admit a larger number of persons than can safely or freely move about the Authorized Area.

15. STATUTES/PERMITS:

USER hereby acknowledges that COUNTY requires the full compliance of all Federal, State and local statutes and regulations as they may pertain to any and all activities conducted in, on or around the Authorized Area. This compliance includes sales activities and the mandated collection and remittance of all appropriate State and local sales taxes and purchase of business, parade or other types of permits.

16. NON-DISCRIMINATION:

The USER shall not discriminate against any person or persons in connection with admission, services, or privileges offered to or enjoyed by the general public because of race, creed, ancestry, sexual orientation, disability, color, sex, marital status, age, religion or national origin.

17. INFLAMMABLE MATERIALS:

USER shall not, without the prior written permission of COUNTY, use open flames, or use or store oils, burning fluids, camphene, kerosene, naphtha or gasoline or other gases for either mechanical or other purposes. USER shall file with COUNTY a written application for such use prior to USER obtaining COUNTY'S written permission therefor.

18. USE OF VEHICLES:

Except during specified move-in and move-out periods, the USER shall not drive or cause to be driven any vehicle on the Authorized Area without the written consent of the COUNTY.

19. LEGAL RECOURSE:

In the event the USER violates any of the terms or conditions of this Agreement, COUNTY shall have, in addition to any other legal recourse, the right to terminate this Agreement and obtain possession of the entire Authorized Area, and to remove and exclude the USER there from, all without service of notice or resort and without any legal liability on its part.

20. COMPLIANCE WITH LAW:

USER, at its sole cost and expense, shall comply and secure compliance with requirements, including, but not limited to, wage and hour guidelines, and shall faithfully observe and secure observance in the use of the Authorized Area of all municipal ordinances and State and Federal Statutes now in force or which may hereafter be in force.

21. NO SUBLETTING AND ASSIGNMENT:

USER shall not sublet, nor assign, pledge, hypothecate or mortgage this Agreement or any of its rights hereunder, without the prior written consent of the COUNTY.

22. LIENS:

USER agrees to pay promptly the costs, expenses and other charges incidental to the use and occupation of the Authorized Area authorized herein **and to hold the Indemnified Persons harmless from, and to indemnify and defend them against, any such expenses and charges and from all claims, demands and liens of whatever character arising by reason of contract, express or implied, or any part of any other act of omission on the part of any person other than the Indemnified Persons.** Such costs shall include all expenses and attorneys' fees incurred by the Indemnified Persons in connection with any asserted claim, demand or lien.

23. FORCE MAJEURE:

In the event COUNTY's obligations to the USER under this Agreement should be delayed, prevented or rendered impractical by any of the following events: fire, flood, riot, earthquake, civil commotion, strike, lockout, labor disturbances, explosions, sabotage, accident, war, other casualty, act of God, or any law ordinance, rule of regulation which becomes effective after the date of this Agreement or any other cause beyond COUNTY’s reasonable control, COUNTY shall not be liable to perform. The

USER hereby waives any claim for damages or compensation for such delay or failure to perform, other than a return to it of any monies paid directly to COUNTY, but no other.

24. CANCELLATION BY COUNTY:

This Agreement may be canceled without liability to COUNTY, under any of the following conditions: (a) if the USER is found to have provided false or misleading information to COUNTY, (b) if COUNTY finds that the use or proposed use will be detrimental to the health, safety or morals of COUNTY or to the efficient operation of the Authorized Area for the public welfare, (c) should any individual or group (members or guests) willfully or negligently mistreat or damage the equipment or Authorized Area or violate any of the policies, rules, regulations, terms and conditions established for use of the Authorized Area, (d) for failure to notify COUNTY of cancellation of any date or dates covered by the Agreement, (e) if USER defaults on any or has not completed all conditions and requirements for use of Authorized Area within the time required prior to USER's use of the Authorized Area, (f) in case the Authorized Area or any part thereof shall be destroyed or damaged by fire or any other cause, or if any other casualty or unforeseen occurrence, including strikes, labor disputes, wars or acts of military authorities, shall render the fulfillment of the contract difficult or impossible to perform, (g) if the Authorized Area is needed for public necessity or emergency use as determined by COUNTY or (h) upon thirty (30) days' written notice to USER.

25. GOVERNING LAW, VENUE:

Each party to this Agreement hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this Agreement shall lie exclusively in Williamson County, Texas. Furthermore, this Agreement shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

26. BINDING EFFECT, ASSIGNABILITY:

This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, legal representatives, successors and assigns subject, in the case of USER, to the provisions of Section 21 above.

27. SEVERABILITY:

If any provision of this Agreement shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision hereof, but rather this entire Agreement will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this Agreement is determined to be invalid or unenforceable, it is the desire and intention of each that

such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this Agreement and be deemed to be validated and enforceable.

28. INDEMNIFICATION BY COUNTY:

USER acknowledges and agrees that under the Constitution and the laws of the State of Texas, COUNTY cannot enter into an agreement whereby COUNTY agrees to indemnify or hold harmless any other party, including but not limited to USER.

29. NOTICE:

Any notice to be given hereunder shall be in writing and may be affected by personal delivery, in writing or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

USER: As set forth on below USER's execution herein below

COUNTY: Williamson County Judge
Dan A. Gattis (or successor)
710 S. Main Street, Ste. 101
Georgetown, Texas 78626

with copy to: Williamson County Attorney
Dee Hobbs (or successor)
405 M.L.K. St., Box #7
Georgetown, Texas 78626

30. THIRD PARTY BENEFICIARIES:

This Agreement is for the sole and exclusive benefit of the parties hereto, and nothing in this Agreement, express or implied, is intended to confer or shall be construed as conferring upon any other person any rights, remedies or any other type or types of benefits.

31. REPORTS OF ACCIDENTS:

Within 24 hours after USER becomes aware of the occurrence of any accident or other event which results in, or might result in, injury to the person or property of any third person (other than an employee of the USER), whether or not it results from or involves any action or failure to act by the USER or any employee or agent of the USER and which arises in any manner relating to the USER's use of the Authorized Area, the USER shall send a written report of such accident or other event to the COUNTY, setting forth a full and concise statement of the facts pertaining thereto. The USER shall also

immediately send the County a copy of any summons, subpoena, notice, or other documents served upon the USER, its agents, employees, or representatives, or received by it or them, in connection with any matter before any court arising in any manner from the USER's use of the Authorized Area under this Agreement.

32. CONSTRUCTION:

Each party to this Agreement acknowledges that it and its counsel have reviewed this Agreement and that the normal rules of construction are not applicable and there will be no presumption that any ambiguities will be resolved against the drafting party in the interpretation of this Agreement.

33. RELATIONSHIP OF THE PARTIES:

Each party to this Agreement, in the performance of this Agreement, shall act in an individual capacity and not as agents, employees, partners, joint ventures or associates of one another. The employees or agents of one party shall not be deemed or construed to be the employees or agents of the other party for any purposes whatsoever.

34. NO WAIVER:

No action or inaction taken pursuant to this Agreement should be deemed to constitute a waiver of compliance with any representation, warranty, covenant or agreement contained in this Agreement and such action or inaction will not operate or be construed as a waiver of any subsequent breach, whether of a similar or dissimilar nature.

35. OWNERSHIP OF PRODUCTION; PHOTOGRAPHY

If USER's use of the Authorized Area is for the production of photography (including without limitation by means of motion picture, still or videotape photography), all rights of every nature whatsoever in and to all still pictures, motion pictures, videotapes, photographs and sound recordings made hereunder, shall be owned by USER and its successors, assigns and licensees. In connection with USER's user of the Authorized Area and the production of photography, USER may refer to the Authorized Area or any part thereof by any fictitious name and may attribute any fictitious events as occurring on the Authorized Area. COUNTY irrevocably grants to USER and USER's successors and assigns the right, in perpetuity, throughout the universe, to duplicate and recreate all or a portion of the Authorized Area and to use such duplicates and recreations in any media and/or manner now known or hereafter devised in connection with the film, including without limitation sequels and remakes, merchandising, theme parks and studio tours, and in connection with publicity, promotion and/or advertising for any or all of the foregoing; provided, however, the Authorized Area shall not be used for the production of any movie or scene that would be considered to be obscene pursuant to state and federal laws or as otherwise prohibited by this Agreement.

36. USES PROHIBITED

The Authorized Area shall not be used for the production of any still pictures, motion pictures, videotapes, photographs and sound recordings that would be considered to be obscene pursuant to state and/or federal laws or any use of the Authorized Area that would be defamatory to COUNTY. In the event USER should use the Authorized Area for such purposes, such use shall be deemed a material breach of this Agreement and COUNTY may avail itself of any remedies allowed at law or in equity.

37. ENTIRETY OF AGREEMENT:

This Agreement represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either oral or written. This Agreement may be amended only by written instrument signed by each party to this Agreement. NO OFFICIAL, EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE COUNTY HAS ANY AUTHORITY, EITHER EXPRESS OR IMPLIED, TO AMEND THIS AGREEMENT, EXCEPT PURSUANT TO SUCH EXPRESS AUTHORITY AS MAY BE GRANTED BY THE WILLIAMSON COUNTY COMMISSIONERS COURT.

38. RETURN OF AGREEMENT

USER's Executed Agreement must be returned to the office of the Williamson County Judge at least twenty (20) days prior to the date that USER's intends to use of the Authorized Area, accompanied by payment of all fees and other conditions then due or this Agreement will be deemed null and void.

THE REMAINDER OF THIS PAGE IS INTENTIONALLY BLANK

AS ACCEPTED AND EXECUTED:

COUNTY:

_____
Dan A. Gattis, Williamson County Judge

DATED _____ _____, 20___

USER:

mirth films
Company / Organization

Authorized Signer: karmen leech

Printed Name: karmen leech

Representative Capacity: _____

DATED 10 11, 2017

Contact Person: karmen leech

Address: 3305 hyclimb circle

austin, tx 78723

Phone No.: (323) 788-4424

EXHIBIT "A"

DESCRIPTION AND GENERAL TERMS OF AUTHORIZED AREA

The COUNTY does hereby grant, subject to the terms and provisions hereof, to USER, permission to use the following specified area(s), ingress and egress thereto via corridors and public areas devoted to ingress and egress, (the "Authorized Area"), for the following use and no other purpose (the "Permitted Use"):

Date(s): **From -** 10 18, 2017

To - 10 18, 2017

Hours: 11 **a.m. to** 6 **p.m.**

Permitted Use (Description of Use): filming

Authorized Area (Location):

Security Deposit: **$**

License Fee: **$**

***Total License Fee shall be due and paid upon delivery of User's executed copy of this Agreement and prior to the date of use. Personnel and any other costs must be paid pursuant to the terms of this Agreement.**

Commissioners Court - Regular Session **35.**

Meeting Date: 10/17/2017

Spectrum Ethernet agreement

Submitted By: Richard Semple, Information Technology

Department: Information Technology

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action regarding agreement with Charter Communications Operating, LLC d/b/a Spectrum for new and revised services for fiber internet and ethernet to support county operations.

Background

This agreement is a planned, budgeted increase in speed in our existing Ethernet network for the annex buildings, and also adds Texas Avenue building to the network. Legal would like to note that the County has not been given a Termination for Convenience clause, and a non-appropriation clause that is not as strong as the County would prefer. The vendor will not alter the contract further, however and we have limited options from internet providers.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

ELAN Contract

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 10:17 AM
Form Started By: Richard Semple		Started On: 10/12/2017 09:34 AM
Final Approval Date: 10/12/2017		

Account Executive: Paul Gonzales
Phone: (512) 485-6497 ext:
Cell Phone:
Fax:
Email: paul.gonzales@charter.com

Spectrum Customer Service Order

Order # 8022994

Customer Information: Customer Code		
Business Name	Williamson County *Master* (HQ)	**Customer Type:**
Federal Tax ID	**Tax Exempt Status**	**Tax Exempt Certificate #**
*****6906		
Billing Address		
Attention To:DIR-TEX-AN-NG-CTSA-008		**Account Number**
301 SE Inner Loop, Suite 105 GEORGETOWN TX 78626		
Billing Contact	**Billing Contact Phone**	**Billing Contact Email Address**
Tammy McCulley	(512) 943-1455	tmcculley@wilco.org
Authorized Contact	**Authorized Contact Phone**	**Authorized Contact Email Address**
Thomas G	(254) 220-9475	0034000001xiGuz@SF.com.elq
Technical Contact	**Technical Contact Phone**	**Technical Contact Email Address**
Richard Semple	(512) 943-1489	rsemple@wilco.org

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Fiber Internet and Ethernet Service Order Information For 200 Wilco Way Georgetown TX 78626

Site Name	Address Location	Location Type	Bandwidth
	200 Wilco Way Georgetown, TX 78626		

Current Services and Monthly charges At 412 Vance St , Taylor TX 76574

Description	Quantity	Sales Price	Monthly Recurring Total
Comml Accnt	1	$0.00	$0.00
Ethernet ELAN HUB	1	$0.00	$0.00
***Total**			**$0.00**

*Prices do not include taxes and fees.

Current Services and Monthly charges At 350 Exchange Blvd , Hutto TX 78634

Description	Quantity	Sales Price	Monthly Recurring Total
Comml Accnt	1	$0.00	$0.00
Ethernet ELAN HUB	1	$0.00	$0.00
***Total**			**$0.00**

*Prices do not include taxes and fees.

Current Services and Monthly charges At 200 Wilco Way , Georgetown TX 78626

Description	Quantity	Sales Price	Monthly Recurring Total
Comml Accnt	1	$0.00	$0.00
Ethernet ELAN HUB	1	$0.00	$0.00
Ethernet Intrastate	1	$0.00	$0.00
***Total**			**$0.00**

*Prices do not include taxes and fees.

Current Services and Monthly charges At 350 Discovery Blvd , Cedar Park TX 78613

Description	Quantity	Sales Price	Monthly Recurring Total
Comml Accnt	1	$0.00	$0.00
Ethernet ELAN HUB	1	$0.00	$0.00
***Total**			**$0.00**

*Prices do not include taxes and fees.

Current Services and Monthly charges At 210 Carlos Parker Blvd Nw , Taylor TX 76574

Description	Quantity	Sales Price	Monthly Recurring Total
Comml Accnt	1	$0.00	$0.00
Ethernet ELAN HUB	1	$0.00	$0.00
***Total**			**$0.00**

*Prices do not include taxes and fees.

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Current Services and Monthly charges At 1801 E Old Settlers Blvd , Round Rock TX 78664

Description	Quantity	Sales Price	Monthly Recurring Total
Comml Accnt	1	$0.00	$0.00
Ethernet EVPL HUB	1	$0.00	$0.00
***Total**			**$0.00**

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 1801 E Old Settlers Blvd , Round Rock TX 78664

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
ELAN Interstate 100 Mbps	1	$1,000.00	$1,000.00	60 Months
***Total**			**$1,000.00**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 350 Discovery Blvd , Cedar Park TX 78613

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
ELAN Interstate 100 Mbps	1	$1,000.00	$1,000.00	60 Months
***Total**			**$1,000.00**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 350 Exchange Blvd , Hutto TX 78634

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
ELAN Interstate 100 Mbps	1	$700.00	$700.00	60 Months
***Total**			**$700.00**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 355 Texas Ave , Round Rock TX 78664

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
ELAN Interstate 100 Mbps	1	$608.00	$608.00	60 Months
Ethernet ELAN HUB	1	$0.00	$0.00	60 Months
***Total**			**$608.00**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 210 Carlos Parker Blvd Nw , Taylor TX 76574

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
ELAN Intrastate 100 Mbps	1	$700.00	$700.00	60 Months
***Total**			**$700.00**	

*Prices do not include taxes and fees.

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New and Revised Services and Monthly Charges At 412 Vance St , Taylor TX 76574

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
ELAN Intrastate 100 Mbps	1	$700.00	$700.00	60 Months
***Total**			**$700.00**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 200 Wilco Way , Georgetown TX 78626

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
PTPGIGETRA	1	$3,300.00	$3,300.00	36 Months
***Total**			**$3,300.00**	

*Prices do not include taxes and fees.

One Time fees At 355 Texas Ave , Round Rock TX 78664

Description	Quantity	Sales Price	Total
Installation	1	$250.00	$250.00
Total			**$250.00**

*Prices do not include taxes and fees.

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Special Terms

This Service Order is executed and effective upon the latest date of the signature(s) set forth in the signature block below ("Effective Date") by and
between Charter Communications Operating, LLC on behalf of those operating subsidiaries providing the Service(s) hereunder ("Spectrum") and
Williamson County ("Customer") and is governed by and subject to terms of the Master Services Agreement ("Agreement"), dated , by and
between Customer and Spectrum. Except as specifically modified herein, all other terms and conditions of the Agreement shall remain unamended
and in full force and effect.
The Parties hereby agree to the following additional terms:
1. No Waiver of Sovereign Immunity or Powers: To the extent required by Texas law, nothing in this agreement will be deemed to constitute
a waiver of sovereign immunity or powers of the Williamson County Commissioners Court, or the Williamson County Judge.
2. Non-appropriations: For the purposes of this Service Order only, the Parties have agreed that if Government funding used by the
Customer to purchase the Services hereunder is eliminated in its entirety due to no fault of Customer, Customer shall have the right to
terminate the Services previously funded without incurring early termination charges provided that; (a) Customer provides Spectrum with
at least sixty (60) days prior written notice of the loss of funding and its intention to terminate; (b) Customer has paid Spectrum all amounts
due and owing at the time of such termination for all Services provided by Spectrum; and (c) Customer promptly pays to Spectrum, upon
receipt of invoice, all construction expenses and other non-recurring charges associated with the terminated Services, and any costs and
expenses incurred by TWC to terminate the terminated Services, including, without limitation, any applicable third-party termination liability
charges. The Special Terms Addendum attached to this Service Order is added to the Service Agreement and shall take precedence over
any conflicting or inconsistent terms therein.
3. Texas Prompt Payment Act Compliance: Payment for goods and services shall be governed by Chapter 2251 of the Texas Government
Code.
4. Mediation: To the extent required by Texas law, The parties agree to use mediation for dispute resolution prior to and formal legal action
being taken on this Contract.
5. Governing Law: The law of the State of Texas shall govern.
6. Records: Spectrum shall maintain, in accordance with generally accepted accounting practices, accurate and complete records that it
currently keeps in the ordinary course of business including those records that enable Spectrum to support any invoice

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Special Terms
supplied to Customer. Spectrum shall maintain those records for a period of at least three (3) years after the later of the delivery of Service or issuance of an invoice for a Service delivered under the Agreement.

Electronic Signature Disclosure

By signing and accepting below you are acknowledging that you have read and agree to the terms and conditions outlined in this document.

Authorized Signature for Customer

Dan Gattis County Judge

Printed Name and Title

Date Signed

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SERVICE AGREEMENT

This Service Agreement, including all Service Orders entered into hereunder and the Commercial Terms of Service available at www.charter.com, are incorporated herein by this reference, (collectively the "Service Agreement"), executed and effective upon the date of the signature set forth below (the "Effective Date"), is between customer identified below ("Customer") and Charter Communications Operating, LLC on behalf of those operating subsidiaries providing the service(s) hereunder ("Spectrum").

Spectrum Information

Spectrum Street: 12012 N MoPac Expwy City: Austin State: TX Zip Code: 78758	Contact: Paul Gonzales Phone: (512) 485-6497 Facsimile:

Customer Information

Customer Name (Exact Legal Name): Williamson County *Master* (HQ)			Federal Tax ID: *****6906	
Billing Address: 301 SE Inner Loop, Suite 105	Suite:	City: GEORGETOWN	State: TX	Zip Code: 78626
Billing Contact Name: Tammy McCulley		Phone: (512) 943-1455	Email: tmcculley@wilco.org	
Authorized Contact Name: Thomas G		Phone: (254) 220-9475	Email: 0034000001xiGuz@SF.com.	

Additional Terms

BY EXECUTING THIS SERVICE AGREEMENT WHERE INDICATED BELOW, CUSTOMER ACKNOWLEDGES THAT (1) CUSTOMER ACCEPTS AND AGREES TO BE BOUND BY ALL SUCH TERMS AND CONDITIONS, INCLUDING THE ARBITRATION SECTION THEREOF, WHICH PROVIDES THAT THE PARTIES DESIRE TO RESOLVE DISPUTES RELATING TO THE SERVICE AGREEMENT THROUGH ARBITRATION; AND (2) BY AGREEING TO ARBITRATION, CUSTOMER IS GIVING UP VARIOUS RIGHTS, INCLUDING THE RIGHT TO TRIAL BY JURY.

(Authorized Customer Signature)	(Date Signed)
Dan Gattis	County Judge
(Printed Name)	(Title)

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Commissioners Court - Regular Session **36.**

Meeting Date: 10/17/2017

Spectrum internet agreement for EMS stations

Submitted By: Richard Semple, Information Technology

Department: Information Technology

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action regarding agreement with Charter Communications Operating, LLC d/b/a Spectrum for revised internet services at EMS stations to support county operations.

Background

This agreement is an increase to our current internet speed (as well as a location change) for our EMS stations. Legal would like to note that the vendor is not willing to modify their contract to County standards. However we have limited options from internet providers and the service is on a month-to-month basis and can be cancelled anytime.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

EMS Station Contract

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 11:11 AM
Form Started By: Richard Semple		Started On: 10/12/2017 10:59 AM
Final Approval Date: 10/12/2017		

Account Executive: Ruben Meza
Phone: (956) 535-0155 ext:
Cell Phone: (956) 535-0155
Fax: (956) 230-0465
Email: ruben.meza@charter.com

Spectrum Customer Service Order

Order # 8510393

Customer Information: Customer Code 0000		
Business Name	Williamson County EMS - Master	**Customer Type:**
Federal Tax ID	**Tax Exempt Status**	**Tax Exempt Certificate #**
*****9344		
Billing Address		
Attention To:		**Account Number**
301 SE Inner Loop STE 105 Georgetown TX 78626		3103989-01
Billing Contact	**Billing Contact Phone**	**Billing Contact Email Address**
TAMMY McCulley	(512) 943-1500	tmcculley@wilco.org
Authorized Contact	**Authorized Contact Phone**	**Authorized Contact Email Address**
TAMMY McCulley	(512) 943-1500	tmcculley@wilco.org
Technical Contact	**Technical Contact Phone**	**Technical Contact Email Address**
Thomas Gillespie	(512) 943-1465	thomas.gillespie@wilco.org

Voice Service Order Information 9218 Anderson Mill Rd MED22 Austin TX 78729

Current LEC	LEC BTN	Porting Required

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Voice Line Information For 9218 Anderson Mill Rd MED22 Austin TX 78729

Product Line & Type	Number & Caller ID Display	Porting	HG	Hunt Group Type	SEQ	VM	SVM#	GVM#	AA	BGF	Call ID Priv	MP	Global Calling Plan	E-911 Location	Directory Listing YPHV & Listing Details
BCP Unlimited Local & LD	(000) 000-0000 WILLIAMSON COUN										No		No	BLDGN/A STEN/A FLN/A	Private
BCP Unlimited Local & LD	(512) 918-9878 WILLIAMSON COUN										No		No	BLDGN/A STEN/A FLN/A	Private

Product Line & Type: (BTN) Billing Telephone Number, (WTN) Working Telephone Number
Features: (HG) Hunt Group, (SEQ) Hunt Group Sequence, (VM) Voice Mail, (SVM#) Shared Voice Mail, (GVM#) Group Voice Mail, (AA) Auto Attendant, (BGF) Business Group Feature Package, (MP) Mobility Package
Outbound Call Block*: (900) 900 Numbers, (INT) International, (900INT) 900 and International, (ACB) All Charges Blocked: 411, 900.976.INTL, OS/DA, (OBR) Outbound Restricted: Allows only 611 and 911
Inbound Call Block*: (COL) Collect, (TP) Third Party, (CTP) Collect and Third Party, (IBR) Inbound Restricted
*Customer's election of call blocking can minimize potential exposure to fraud or unnecessary charges.
Dir Listing: (YPHV) Yellow Page Heading Verbiage

Spectrum offers inbound and outbound blocking options to help protect your account from unauthorized use. Spectrum recommends the use of International Blocking for all customers who do not make international calls. The table below summarizes the options selected for your order. If you have any questions or would like to change the blocking options, please contact your Spectrum Account Representative.

Call Blocking Options for: 9218 Anderson Mill Rd MED22 Austin TX 78729

Phone Number	Inbound Call Blocks	Outbound Call Blocks
(000) 000-0000	Collect and Third Party (CTP)	
(512) 918-9878	Collect and Third Party (CTP)	

Intercept Message Information For: 9218 Anderson Mill Rd MED22 Austin TX 78729

Phone Number	Referral Number	Interval	Start Date
(000) 000-0000			
(512) 918-9878			

Custom Ring For: 9218 Anderson Mill Rd MED22 Austin TX 78729

Directory Listing	Directory Listing	Directory Listing	Directory Listing

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Number	Custom Ring #1	#1	Custom Ring #2	#2	Custom Ring #3	#3	Custom Ring #4	#4
(000) 000-0000								
(512) 918-9878								

Internet and TV Services Order Information For 9218 Anderson Mill Rd MED22 Austin TX 78729

Service Type
High Speed Internet (HSD)

Internet and TV Services Order Information For 1311 Highland Dr # Office Cedar Park TX 78613

Service Type
High Speed Internet (HSD)

Internet and TV Services Order Information For 1427 N Main St # Office Taylor TX 76574

Service Type
High Speed Internet (HSD)

Internet and TV Services Order Information For 150 Church Park Rd # Hsd Cedar Park TX 78613

Service Type
High Speed Internet (HSD)

Internet and TV Services Order Information For 1991 Rawhide Dr # Office Round Rock TX 78681

Service Type
High Speed Internet (HSD)

Internet and TV Services Order Information For 2604 Northlawn Dr Taylor TX 76574

Service Type
High Speed Internet (HSD)

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Internet and TV Services Order Information For 350 Deepwood Dr # Office Round Rock TX 78681
Service Type
High Speed Internet (HSD)

Internet and TV Services Order Information For 450 Cypress Creek Rd Cedar Park TX 78613
Service Type
High Speed Internet (HSD)

Current Services and Monthly charges At 2604 Northlawn Dr , Taylor TX 76574

Description	Quantity	Sales Price	Monthly Recurring Total
A/O	2	$0.00	$0.00
Bc Modem	1	$0.00	$0.00
PRV STNDRD	1	$10.97	$10.97
1 Static IP	1	$0.00	$0.00
Comml Accnt	1	$0.00	$0.00
Bc Cvtr Actv	1	$0.00	$0.00
BUSINESS CLASS PHONE	1	$29.95	$29.95
BASIC VIDEO - PRIVATE	1	$25.91	$25.91
BC Dgtl Adapt SD BSCSTD	3	$0.00	$0.00
***Total**			**$66.83**

*Prices do not include taxes and fees.

Current Services and Monthly charges At 350 Deepwood Dr # Office , Round Rock TX 78681

Description	Quantity	Sales Price	Monthly Recurring Total
Bc Modem	1	$0.00	$0.00
Bcmonbannr	1	$0.00	$0.00
Comml Accnt	1	$0.00	$0.00
Do Not Call	1	$0.00	$0.00
***Total**			**$0.00**

*Prices do not include taxes and fees.

Current Services and Monthly charges At 1991 Rawhide Dr # Office , Round Rock TX 78681

Description	Quantity	Sales Price	Monthly Recurring Total
Bcmonbannr	1	$0.00	$0.00
Comml Accnt	1	$0.00	$0.00
***Total**			**$0.00**

*Prices do not include taxes and fees.

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Current Services and Monthly charges At 1427 N Main St # Office , Taylor TX 76574

Description	Quantity	Sales Price	Monthly Recurring Total
Hsi Outlet	1	$0.00	$0.00
PRV STNDRD	1	$19.07	$19.07
VID AO MRC	2	$11.30	$22.60
Comml Accnt	1	$0.00	$0.00
Do Not Call	1	$0.00	$0.00
Bc Cvtr Actv	3	$0.00	$0.00
BUSINESS CLASS PHONE	1	$29.95	$29.95
BASIC VIDEO - PRIVATE	1	$18.18	$18.18
BC Dgtl Adapt SD BSCSTD	3	$0.00	$0.00
***Total**			**$89.80**

*Prices do not include taxes and fees.

Current Services and Monthly charges At 9218 Anderson Mill Rd Unit MED22, Austin TX 78729

Description	Quantity	Sales Price	Monthly Recurring Total
PRV STNDRD	1	$35.99	$35.99
VID AO MRC	1	$6.99	$6.99
Bcp Vc Mail	1	$0.00	$0.00
Comml Accnt	1	$0.00	$0.00
Bc Cvtr Actv	2	$0.00	$0.00
Bcph Vc Mail	1	$0.00	$0.00
Basic TV (Temp)	1	$35.99	$35.99
BC Dgtl Adapt SD BSCSTD	2	$0.00	$0.00
***Total**			**$78.97**

*Prices do not include taxes and fees.

Current Services and Monthly charges At 150 Church Park Rd # Hsd , Cedar Park TX 78613

Description	Quantity	Sales Price	Monthly Recurring Total
Comml Accnt	1	$0.00	$0.00
Do Not Call	1	$0.00	$0.00
***Total**			**$0.00**

*Prices do not include taxes and fees.

Current Services and Monthly charges At 1311 Highland Dr # Office , Cedar Park TX 78613

Description	Quantity	Sales Price	Monthly Recurring Total
Comml Accnt	1	$0.00	$0.00
***Total**			**$0.00**

*Prices do not include taxes and fees.

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New and Revised Services and Monthly Charges At 450 Cypress Creek Rd , Cedar Park TX 78613

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
Spectrum Business Internet Plus	1	$64.98	$64.98	Month to Month
***Total**			**$64.98**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 1991 Rawhide Dr # Office , Round Rock TX 78681

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
Spectrum Business Internet Plus - 60Mbps	1	$99.99	$99.99	Month to Month
***Total**			**$99.99**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 350 Deepwood Dr # Office , Round Rock TX 78681

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
Spectrum Business Internet Plus - 60Mbps	1	$99.99	$99.99	Month to Month
***Total**			**$99.99**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 1311 Highland Dr # Office , Cedar Park TX 78613

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
Spectrum Business Internet Plus - 60Mbps	1	$99.99	$99.99	Month to Month
***Total**			**$99.99**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 1427 N Main St # Office , Taylor TX 76574

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
Spectrum Business Internet Plus - 60Mbps	1	$99.99	$99.99	Month to Month
***Total**			**$99.99**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 150 Church Park Rd # Hsd , Cedar Park TX 78613

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
Spectrum Business Internet Plus - 60Mbps	1	$99.99	$99.99	Month to Month
***Total**			**$99.99**	

*Prices do not include taxes and fees.

New and Revised Services and Monthly Charges At 2604 Northlawn Dr , Taylor TX 76574

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
Spectrum Business Internet Plus - 60Mbps	1	$99.99	$99.99	Month to Month
***Total**			**$99.99**	

*Prices do not include taxes and fees.

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New and Revised Services and Monthly Charges At 9218 Anderson Mill Rd Unit MED22, Austin TX 78729

Description	Quantity	Sales Price	Monthly Recurring Total	Contract Term
Spectrum Business Internet Plus - 60Mbps	1	$99.99	$99.99	Month to Month
Spectrum Business Voice	2	$44.99	$89.98	Month to Month
***Total**			**$189.97**	

*Prices do not include taxes and fees.

One Time fees At 1427 N Main St # Office , Taylor TX 76574

Description	Quantity	Sales Price	Total
Install Charge - Business Internet	1	$99.00	$99.00
Total			**$99.00**

*Prices do not include taxes and fees.

One Time fees At 450 Cypress Creek Rd , Cedar Park TX 78613

Description	Quantity	Sales Price	Total
Internet Change of Srvce	1	$99.00	$99.00
Total			**$99.00**

*Prices do not include taxes and fees.

One Time fees At 150 Church Park Rd # Hsd , Cedar Park TX 78613

Description	Quantity	Sales Price	Total
Install Charge - Business Internet	1	$99.00	$99.00
Total			**$99.00**

*Prices do not include taxes and fees.

One Time fees At 1311 Highland Dr # Office , Cedar Park TX 78613

Description	Quantity	Sales Price	Total
Install Charge - Business Internet	1	$99.00	$99.00
Total			**$99.00**

*Prices do not include taxes and fees.

One Time fees At 9218 Anderson Mill Rd Unit MED22, Austin TX 78729

Description	Quantity	Sales Price	Total
Install Charge - Business Internet	1	$99.00	$99.00
Total			**$99.00**

*Prices do not include taxes and fees.

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Spectrum

Special Terms

Electronic Signature Disclosure

By signing and accepting below you are acknowledging that you have read and agree to the terms and conditions outlined in this document.

Authorized Signature for Customer

Printed Name and Title

Date Signed

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SERVICE AGREEMENT

This Spectrum Service Agreement, including all Service Orders entered into hereunder and the Commercial Terms of Service that are incorporated herein by this reference ("Service Agreement"), executed and effective upon the date of the signature set forth in the signature block below (the "Effective Date"), is between customer identified below ("Customer") and Charter Communications Operating, LLC on behalf of those operating subsidiaries providing the Service(s) hereunder ("Spectrum").

Spectrum Information

Spectrum
Street: 2921 S Expressway 83
City: Harlingen
State: TX
Zip Code: 78551

Contact: Ruben Meza
Phone: (956) 535-0155
Facsimile: (956) 230-0465

Customer Information

Customer Name (Exact Legal Name): Williamson County EMS - Master			Federal Tax ID: *****9344	
Billing Address: 301 SE Inner Loop STE 105	Suite:	City: Georgetown	State: TX	Zip Code: 78626
Billing Contact Name: TAMMY McCulley		Phone: (512) 943-1500	Email: tmcculley@wilco.org	
Authorized Contact Name: TAMMY McCulley		Phone: (512) 943-1500	Email: tmcculley@wilco.org	

Service Agreement

THIS SPECTRUM SERVICE AGREEMENT IS SUBJECT TO THE COMMERCIAL TERMS OF SERVICE AVAILABLE AT WWW.CHARTER.COM, A COPY OF WHICH WILL BE PROVIDED TO CUSTOMER UPON REQUEST. SUCH TERMS AND CONDITIONS ARE INCOPORATED HEREIN BY THIS REFERENCE. BY EXECUTING THIS SPECTRUM SERVICE AGREEMENT WHERE INDICATED BELOW, CUSTOMER ACKNOWLEDGES THAT (1) CUSTOMER ACCEPTS AND AGREES TO BE BOUND BY ALL SUCH TERMS AND CONDITIONS, INCLUDING THE ARBITRATION SECTION THEREOF, WHICH PROVIDES THAT THE PARTIES DESIRE TO RESOLVE DISPUTES RELATING TO THE SPECTRUM SERVICE AGREEMENT THROUGH ARBITRATION; AND (2) BY AGREEING TO ARBITRATION, CUSTOMER IS GIVING UP VARIOUS RIGHTS, INCLUDING THE RIGHT TO TRIAL BY JURY.

(Authorized Customer Signature) (Date Signed)

(Printed Name) (Title)

Spectrum

Spectrum™ Business Voice Service E911 Acknowledgment

Customer Name: Williamson County EMS - Master

Billing Address: 301 SE Inner Loop STE 105 Georgetown TX 78626

Please confirm that you understand this important information regarding E911 access and Spectrum Business Voice service.[1]

Spectrum Business Voice service customer premise equipment ("CPE") is electrically powered and, in the event of a power outage or Spectrum network failure, E911 services may be unavailable.

When you dial 911, your service address is automatically provided to an emergency services provider. Spectrum Business Voice service CPE must not be moved to a new service address without first contacting Spectrum to identify your new service location. If you move the Spectrum Business Voice service CPE to a new service address without authorization and dial 911, you will need to provide your address to the 911 operator or your call may be misdirected to the wrong location or wrong emergency provider.

During the first 72 hours after initiating service or advising us of an address change, if you dial 911, you must provide your new service address to the emergency operator. This is necessary to ensure emergency services are dispatched to your new service address because the emergency operator may not have the new service address in their records. In some locations, depending on the equipment used by local governments to provide 911 service, you will always need to convey the 911 service location information to the emergency operator.

You must ensure that all alarm, security, medical and/or other monitoring systems and services are tested to validate proper operation after Spectrum Business Voice service is installed.

By signing my name below, I acknowledge that I have received and understand this Acknowledgement and agree to the obligations described above.

_____

(Authorized Customer Signature) (Date Signed)

_____

(Printed Name) (Title)

[1] "Spectrum" refers to Charter Communications Operating, LLC and its subsidiaries providing you the Services.

Commissioners Court - Regular Session **37.**

Meeting Date: 10/17/2017

WCSO Administration In-Building Distributed Antenna System Expansion

Submitted By: Catherine Roberts, Radio Communication System

Department: Wireless Communications Department

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on approving the contract statement of work from Motorola Solutions, Inc. to complete the expansion of the current in-building DAS (Distributed Antenna System) to the Williamson County Sheriff's Office administration footprint of the complex. (Note: procurement made pursuant to the Houston-Galveston Area Council HGAC contract #RA05-15).

Background

First phase of DAS (Distributed Antenna System) was installed in the Williamson County Sheriff's Office Jail in September of 2014. This system not only brought the building to National Fire Standards, but also allowed for effective use of the public safety radios utilized for day-to-day communications by the jail internal employees of the building. The proposed expansion completes the footprint of the complex and it too will now meet this criteria for National and now the City of Georgetown local fire standards. It will also improve and enhance radio communications between office patrol administration and field units.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

1295 Certificate-Notarized

1295 Certificate-Acknowlegement

Motorola Contract-with WC Addendum

HGAC RA05-15

Form Review

Inbox	Reviewed By	Date
Hal Hawes	Hal Hawes	10/06/2017 08:54 AM
County Judge Exec Asst.	Wendy Coco	10/09/2017 11:49 AM
Form Started By: Catherine Roberts		Started On: 09/14/2017 12:39 PM
Final Approval Date: 10/09/2017		

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
2017-264894

Date Filed:
09/25/2017

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

Motorola Solutions
Austin, TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

Williamson County Texas

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

DAS System for WCSO
WCSO ADMIN DAS Expansion

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary

5 Check only if there is NO Interested Party. [X]

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

NOTARY PUBLIC STATE OF TEXAS
BETH SHELTON
Notary ID #11199507
My Commission Expires
April 23, 2018

Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said Richard R Russell, this the 26 day of Sept, 20 17, to certify which, witness my hand and seal of office.

Signature of officer administering oath	Printed name of officer administering oath	Title of officer administering oath
Beth Shelton	Beth Shelton	Notary

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
2017-264894

Date Filed:
09/25/2017

Date Acknowledged:
10/05/2017

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

Motorola Solutions
Austin, TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

Williamson County Texas

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

DAS System for WCSO
WCSO ADMIN DAS Expansion

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary

5 Check only if there is NO Interested Party. [X]

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

_____
Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said _____, this the _____ day of _____, 20_____, to certify which, witness my hand and seal of office.

_____ _____ _____
Signature of officer administering oath | Printed name of officer administering oath | Title of officer administering oath

Motorola Solutions, Inc.
1507 LBJ Freeway, Suite 700
Farmers Branch, TX. 75234
USA

May 10, 2017

Catherine Roberts
Williamson County
508 Holly Street
Georgetown, TX 78626

RE: Williamson County Sheriff's Office BDA System Expansion

Dear Mrs. Roberts

Motorola Solutions, Inc. (Motorola Solutions) is pleased to present to you the enclosed proposal for the Williamson County Sheriff's Office BDA System Expansion Project. The Proposal is based upon and subject to the terms and conditions of the H-GAC Agreement (RA05-15) executed in May of 2015, and consists of this cover letter, Statement of Work, System Description, Equipment List, and the HGAC Communications System Purchase Agreement (SPA).

The Proposal is valid for ninety (90) days from the date of this letter and is subject to the terms and conditions of the attached HGAC System Purchase Agreement, or a negotiated version thereof. Motorola Solutions would be happy to discuss any concerns the County may have with the Proposal.

Rick Russek
Motorola Solutions, Inc.

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SECTION 1

SYSTEM DESCRIPTION

1.1 SOLUTION OVERVIEW

In response to the customer's request, Motorola Solutions is presenting this comprehensive proposal to provide an expansion to the existing in-building Distributed Antenna System (DAS) for Williamson County's Sherriff's Office section. The system is designed by Motorola Solutions' vendor, GPD Telecom Inc., using requirements and specification provided by Motorola Solutions. This system solution will provide two-way communications for the Sherriff's Office that currently has insufficient RF signal for adequate two-way communication.

GPD Telecom, Inc., under the direction of Motorola Solutions, utilized propagation studies to determine the most feasible solution for providing supplemental, in-building RF coverage to the specified building. The proposed in-building distributed antenna system will enhance coverage provided by the radio system.

As an option, the quote includes a solution to provide the existing system with a redundant Node A amplifier with a manual switch over design. The system modification that is proposed provides for an easy adjustment to the existing in- building RF coverage system in case of a failure of the primary Node A. The proposed in-building DAS modification will provide a redundant Node A for the radio system utilized by the Williamson County Jail, Sherriff's Office and Courthouse personnel.

1.2 DISTRIBUTED ANTENNA SYSTEM DESIGN

This section of the proposal defines requirements for the system design and implementation of the requested in-building coverage system. This system is designed to expand the signal coverage at the Williamson County Sherriff's Office to provide 95% coverage reliability for the entire building.

1.2.1 Coverage Area Criteria

The DAS proposed by GPD Telecom, Inc. will provide 95% or better coverage reliability, at a Delivered Audio Quality (DAQ) 3.4 level of coverage, or better for the following area:

- SO 1st Floor.
- SO 2nd Floor.
- SO 3rd Floor.

Definitions:

DAQ 3.4:

- Speech understandable with repetition only rarely needed.
- Some Noise/Distortion.

Note: The generally accepted industry standard for public safety radio systems is 95% criteria for coverage within a building at a minimum of DAQ 3.4 as defined above.

Based on the RF design effort, the coverage system design will provide RF coverage to designated areas within the building predicted to experience insufficient RF signal coverage in order to provide adequate two-way communication.

All reasonable efforts would be made to ensure that cable routings and antenna mountings will not compromise the integrity of the installation area in the facility. Both plenum-rated (indoors) coaxial would be used for system interconnection.

The system would be provided on a basis, including engineering, material, and installation labor necessary to provide a working system.

1.2.2 Distributed Antenna System Description

The proposed effort is an expansion of the existing DAS system used to the Jail and Courthouse. The coverage expansion into the Sherriff's Office requires only new coaxial cable, antennas, and splitters. The proposal is to provide 95% coverage to the Sherriff's Office.

Motorola Solutions, along with GPD Telecom, Inc. will provide all engineering, project management, materials, installation, testing, and documentation necessary to provide a fully operational in-building distributed antenna system (DAS). Utilizing the existing wide area coverage system, the proposed in-building distributed antenna system shall enhance coverage to the facility.

Figure 1-1 - Figure 1-3 are the proposed DAS design diagrams shown in red for the proposed antennas and locations to provide the available coverage requirement for the Sherriff's Office. The antenna locations are proposed and shall be verified during a site walk post kickoff meeting to determine exact install locations and orientation.

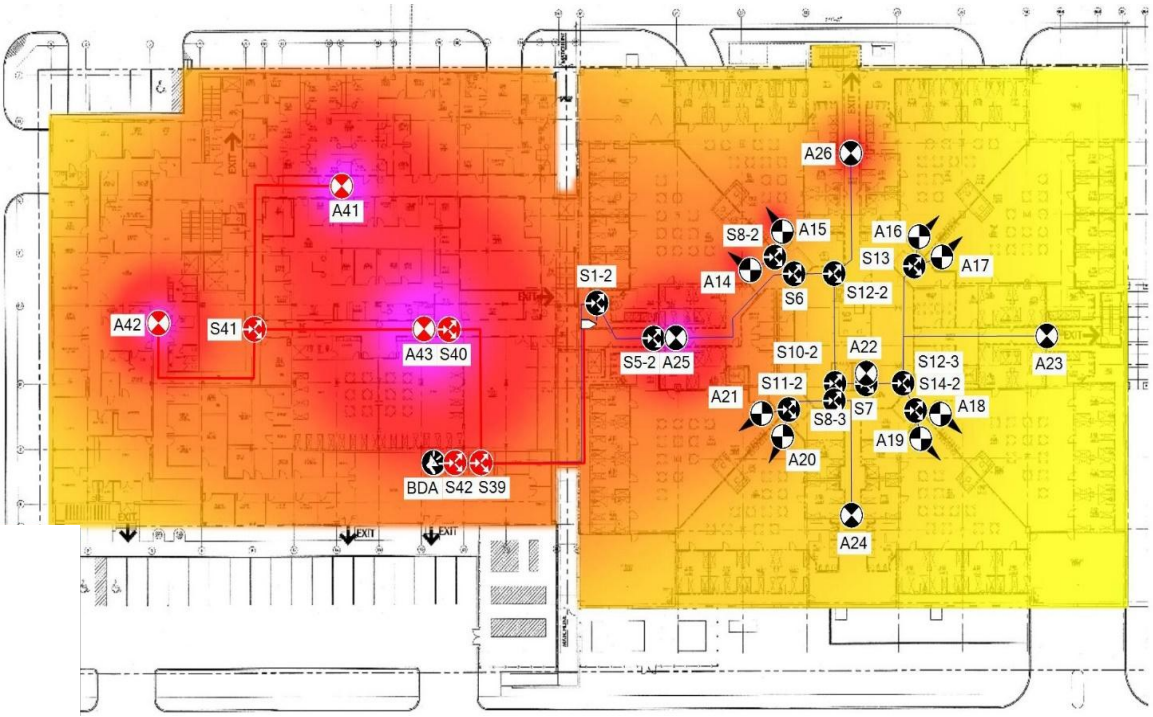

Figure 1-1: Williamson County SO Floor 1 DAS Solution

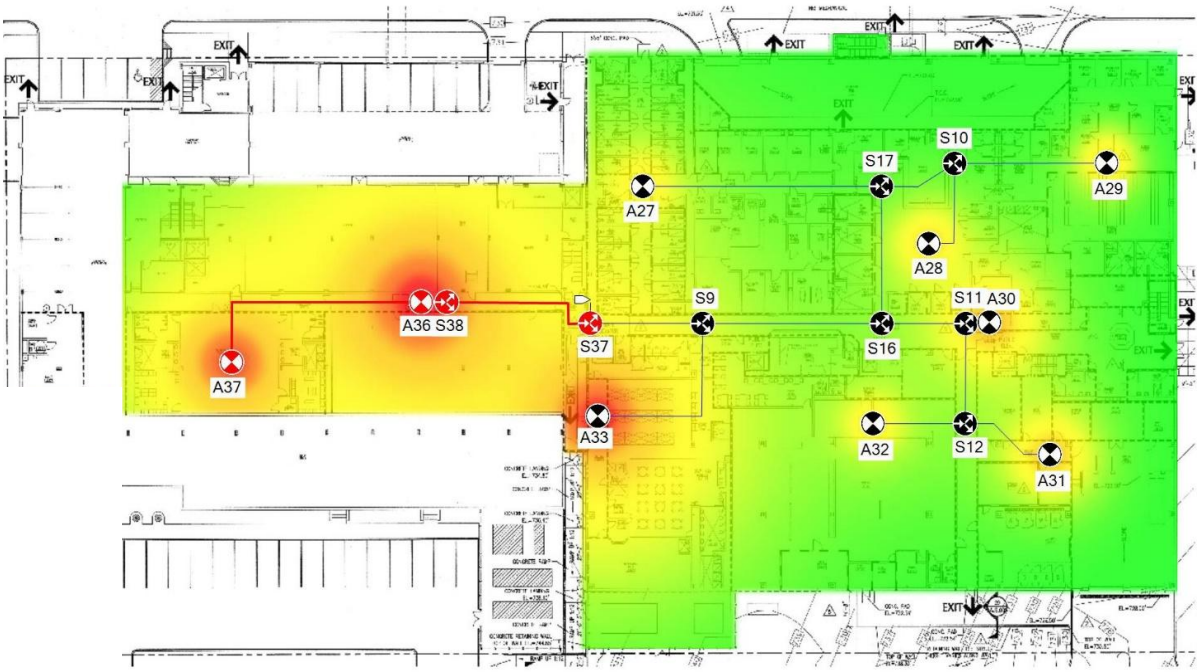

Figure 1-2: Proposed Williamson County SO Floor 2 DAS Solution

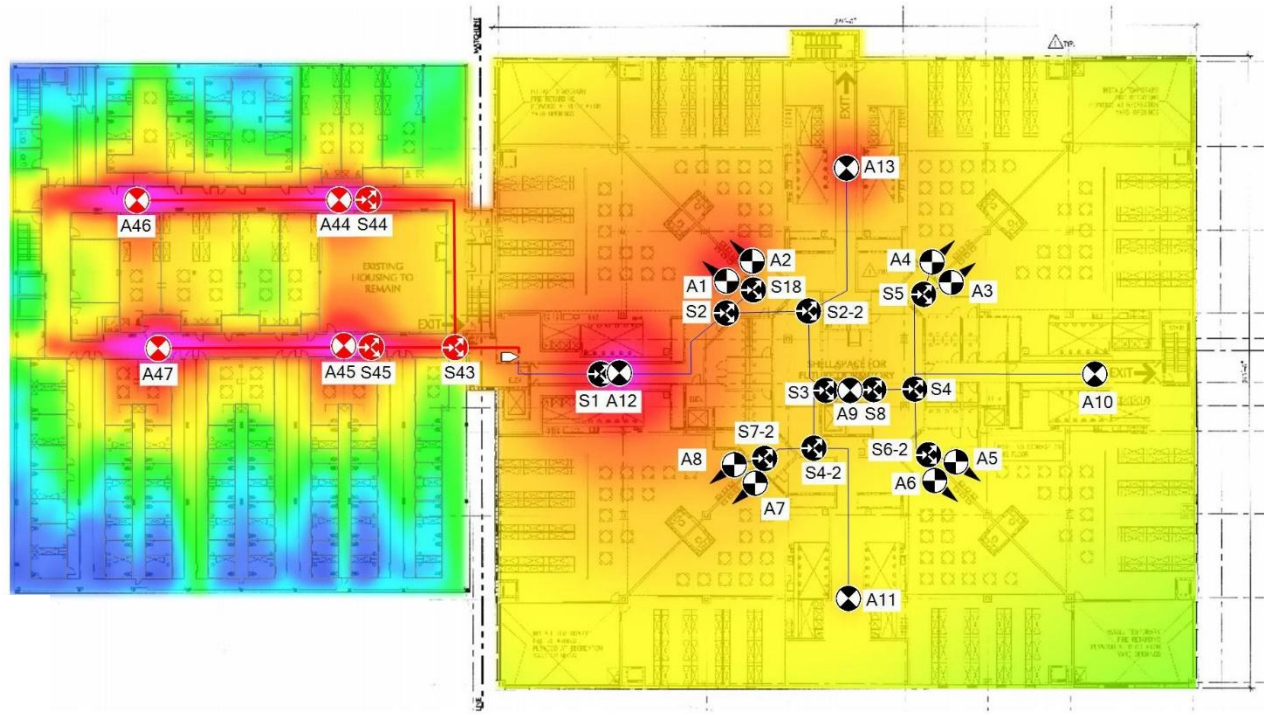

Figure 1-3: Williamson County SO Floor 3 DAS Solution

1.2.3 Optional Redundant Node A

The redundant Node A and manual switch system modification would comprise of a second Node A BDA, a two way combiner, an RF Manual Switch and associated cables.

The system will have two Node A BDA's connected to the existing donor antenna via a two port combiner and to the existing DAS via a coax RF switch. When a failure occurs in the primary Node A, the DAS system can be switched over to feed off the redundant Node A BDA by changing the RF coax switch position to the backup position and enabling the redundant Node A by logging into the redundant Node A and checking the enable/disable box. The redundant Node A will have already been aligned and tested. See Figure 1-4 below.

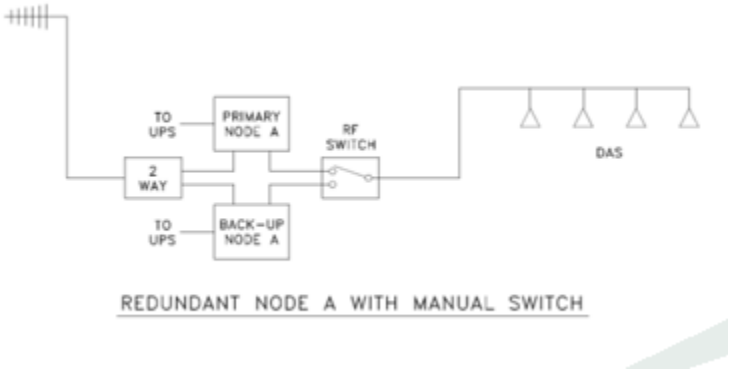

Figure 1-4: Redundant Node A Design

1.2.4 DAS Acceptance Test Plan (coverage testing)

Once the DAS installation is complete, GPD technicians will properly align and optimize the system. Once alignment and optimization is complete, GPD will request a Motorola Solutions, Inc. radio to pre-talk test the system prior to the formal Acceptance Test Plan (ATP).

After the GPD technician confirms that the DAS coverage will perform to the contractual requirement, a formal industry standard grid acceptance test using the floor plans provided over a grid system of the coverage area will be conducted. Motorola Solutions and GPD will test and collect at all data points of testing the DAQ levels and SSI in dBm.

To conduct the formal ATP, two radios in good operating condition with spare batteries would be required. Test calls in each grid would be made to a person with a portable or to a control station/dispatch console in a known good coverage location. Each grid shall be tested with the test criteria outlined in section 1.2.1.1. In the event a test fails, a second point may be tested. Additionally, GPD will validate stairwell and elevator DAQ and record in ATP documentation.

Once the ATP is conducted and the system passes the coverage criteria, a sign off sheet would be provided for formal system acceptance. Once the system is accepted in writing, the one year warranty period begins.

SECTION 2

STATEMENT OF WORK

2.1 INTRODUCTION

Motorola Solutions is proposing to the Williamson County Sheriff's Office, TX the installation and configuration of the following equipment at the specified locations.

Site Name	Major Equipment
Williamson County Sheriff's Office, Jail and Courthouse	Expansion of the existing In-building Distributed Antenna System

The document delineates the general responsibilities between Motorola Solutions and the Williamson County Sheriff's Office as agreed to by contract.

2.2 MOTOROLA SOLUTIONS RESPONSIBILITIES

Motorola Solutions' general responsibilities include the following:

- Perform the installation of the Motorola Solutions and GPD Telecom Inc supplied equipment described in the System.
- Schedule the implementation in agreement with the Williamson County Sheriff's Office.
- Coordinate the activities of all Motorola Solutions subcontractors under this contract.
- Administer safe work procedures for installation.
- All installations performed will follow the published Motorola Solutions, Inc. R-56 Standard standards. The R-56 standard is the standard related to communication site construction and installation practices. Much of the Motorola Solutions, Inc. R-56 Standard are similar to NFPA, NEC code with an extra emphasis on industry standard installation and engineering best practices.
- Provide the Williamson County Sheriff's Office with the appropriate system interconnect specifications, *if required.*
- Conduct the DAS ATP.

2.3 WILLAMSON COUNTY SHERIFF'S OFFICE RESPONSIBILITIES

Williamson County SO will assume responsibility for the installation and performance of all other equipment and work necessary for completion of this project that is not provided by Motorola Solutions and GPD Telecom, Inc. Williamson County SO general responsibilities include the following:

- Provide all buildings, equipment shelters, and towers required for system installation.
- Provide access to the identified areas of the Jail, Sheriff's Office and Courthouse.
- Insure communications sites meet space, grounding, power, and connectivity requirements for the installation of all equipment.
- Obtain all licensing, site access, or permitting required for project implementation.

- Obtain frequencies for project (*if required*).
- Provide a dedicated delivery point, such as an equipment room or warehouse, for receipt, inventory and storage of equipment prior to delivery to the identified locations.
- Coordinate the activities of all Williamson County SO vendors or other contractors.

2.4 IMPLEMENTATION ASSUMPTIONS

Motorola Solutions has based the system design on assumptions and information gathered from the Williamson County and an analysis of their existing system. All assumptions are listed below for review by Williamson County. Should Motorola Solutions' assumptions be deemed incorrect or not agreeable to the County a revised proposal with the necessary changes and adjusted costs will be required. Changes to the equipment or scope of the project after contract may require a change order.

- All existing sites or equipment locations will have sufficient space available for the system described.
- All existing sites or equipment locations will have adequate electrical/generator power and circuits, surge suppression, and site grounding to support the requirements of the system described.
- This proposal is based on the assumption that work-site availability would be provided the same day as requested. In addition, daily work schedules are assumed to be a minimum of 8 hours/day, with working hours between 7 a.m. and 7 p.m. If after-hours installation, maintenance, operation of work-sites, failure or lack of adequate escort personnel, or overly restrictive job-site check-in/check-out procedures restricts the ability to perform an efficient workday, additional funding would be required. If the installation of this system is limited to weekends or production down time to accommodate the Sherriff's Office's production, a set schedule must be determined as part of the "kick-off" meeting in order for Motorola Solutions and GPD to determine the man-power necessary to complete this project on the given timeline. If work delays require multiple deployments of implementation equipment and/or personnel, additional funding would be required.
- Per the Federal Communications Commission (FCC), there are no licensing requirements for the operation of a BDA system. However, should there be any fees associated with zoning approvals and/or permitting for construction, electrical or equipment installation, Williamson County will be responsible for all licensing fees, if applicable.
- This proposal is based on the assumption that union installers are not required. If union personnel must be used, additional funding would be required.
- This quote assumes the use of Norrelle Electrical for subcontracting work. In the event, another subcontractor is required, additional funding may be required.
- The existing DAS shall be fully functional and operational at the time of install.
- Motorola Solutions is not responsible for interference caused or received by the Motorola Solutions provided equipment except for interference that is directly caused by the Motorola Solutions provided transmitter(s) to the Motorola Solutions provided receiver(s). Should the WCSO's system experience interference, Motorola Solutions can be contracted to investigate the source and recommend solutions to mitigate the issue.

2.5 Change Order Process

Either Party may request changes within the general scope of this Agreement. If a requested change causes an increase or decrease in the cost or time required to perform this Agreement, the Parties will agree to an equitable adjustment of the Contract Price, Performance Schedule, or both, and will reflect the adjustment in a change order. Neither Party is obligated to perform requested changes unless both Parties execute a written Change Order

2.6 FINAL DOCUMENTATION

At the end of the installation and upon system acceptance, a set of detailed “as-built” or record drawings will be provided in electronic format (available in AutoCAD or PDF). These drawings will provide exact locations of all of the radio system equipment that has been installed during this project. The drawings provided will consist of a title drawing, symbols drawing, schematic drawing, layout drawing and a Signal Booster commissioning data drawing that contain all of the Signal Booster parameters of the installed system.

In addition to updated system block diagrams, all system components will be overlaid on the floor plans that were previously provided to GPD during the design process.

Use or disclosure of this proposal is subject
to the restrictions on the cover page.

SECTION 3

WARRANTY SERVICES

Motorola Solutions' standard warranty covers on-site response during normal business hours and provides for the repair or replacement of defective hardware components or the expansion equipment included in this proposal.

SECTION 4

EQUIPMENT LIST

This section lists the equipment necessary for the proposed solution.

4.1 WILLIAMSON COUNTY SHERRIFF'S OFFICE DAS EQUIPMENT LIST

Quantity	Description
SHERRIFF'S OFFICE DAS EXPANSION EQUIPMENT	
1	3/8" Plenum Cable, 50 Ohm CommScope
2	3/8" NM, 50 Ohm Connector
3	In-building Omni Antenna 698-2700, unity gain
4	6dB Directional Coupler 700-2700MHz
5	2-way Splitter 700-2700MHz
6	Small, Cable hook,
7	1/4" Tapcon, Hex Head, 75 per box
8	Fire stop Sealant (Caulk) 10.5 oz.
9	Jumper 1m .141, Plenum, low PIM N/M to N/M
OPTIONAL REDUNDANT BDA EQUIPMENT	
1	Node A 4 Unit Subrack
2	Node A Combiner, 1 Port, 350-3500 MHz
3	Node A 800 MHz Public Safety Module, 5W
4	Node A Wall Mount Kit
5	Node A Dummy Module
6	2-way Splitter 700-2700MHz
7	Two Port NM Manual Coax Switch, DC - 1.3 GHz, 500 W
8	UPS Battery Pack
9	UPS and Battery Wall Mount Kit
10	Natural Plenum Tie Wraps (100 cnt)
11	Jumper 1m .141, Plenum, low PIM N/M to N/M

SECTION 5

PRICING

Motorola Solutions is pleased to provide the following equipment and services to Williamson County Sheriff's Office:

Description	Price
WCSO BDA Expansion System Price	$52,160.00
HGAC Contract	($3,292.00)
Grand Total	$48,868.00
Redundant Note Option	$48,057.00
HGAC Contract	($5,636.00)
Grand Total	$42,421.00
Combined Total	$91,289.00
Combined Project Discount	($10,701)
Combined Grand Total	**$80,588.00**

SECTION 6

SYSTEM PURCHASE AGREEMENT

6.1 SYSTEM PURCHASE AGREEMENT

System Purchase Agreement is included in pages that follow.

Use or disclosure of this proposal is subject
to the restrictions on the cover page.

SYSTEM PURCHASE AGREEMENT (Radio Systems)

THIS AGREEMENT ("Agreement") is made and entered into this _4th_ day of October, by and between Motorola Solutions, Inc., a Delaware corporation duly authorized to conduct business in the State of Texas ("Motorola" or "Seller") and Williamson County a body corporate and politic ("Purchaser").

WITNESSETH:

WHEREAS, the Purchaser desires to purchase a Communications System; and

WHEREAS, Motorola desires to sell a Communications System to Purchaser; and

WHEREAS, Houston-Galveston Area Council ("H-GAC"), acting as the agent for various local governmental entities who are "End Users" under interlocal agreements (including the Purchaser) has solicited proposals for radio communications equipment and conducted discussions with Motorola concerning its proposal and, where applicable, in accordance with the competitive procurement procedures of Texas law; and

WHEREAS, H-GAC and Motorola entered into that certain Contract dated as of May 1, 2015 (the "Contract"), which provided that End Users may purchase radio communications equipment from Motorola pursuant to certain terms contained therein; and

WHEREAS, pursuant to Article 6 of the Contract, Motorola and Purchaser now wish to enter into this System Purchase Agreement to delineate the specific terms of the purchase of radio communications equipment from Motorola by the Purchaser.

THEREFORE, the parties hereby enter into an agreement pursuant to which Motorola shall perform the work and furnish the equipment and services as more fully set forth herein and in the following exhibits, which are either attached hereto or incorporated by reference and hereby made a part of this Agreement:

Exhibit A General Provisions.

Exhibit B Motorola Software License Agreement.

Exhibit C Technical and Implementation Documents, consisting of: Motorola Proposal for In-Building Jail Distributed Antenna System Expansion all dated May 10, 2017_.

Exhibit D Motorola/H-GAC Contract dated May 1, 2015.

Exhibit E Warranty and Maintenance Plan and Service Terms and Conditions (if applicable).

NOW, THEREFORE, for and in consideration of the mutual promises and covenants contained herein, the parties agree as follows:

Section 1 SCOPE OF WORK

A. Motorola shall furnish all of the equipment and software as outlined in Exhibit C and provide the tools, supplies, labor and supervision necessary for the installation of the items purchased in accordance with Exhibit C.

B. In addition to responsibilities described in the Statement of Work, Purchaser shall perform the following coincident with the performance of this Agreement:

(1) Provide a designated Project Director.

(2) Provide ingress and egress to Purchaser's facilities and/or sites as requested by Motorola and have such facilities available for installation of the equipment to be installed.

(3) Provide adequate telephone or other communications lines (including modem access and adequate interfacing networking capabilities) for the installation, operation and support of the equipment.

(4) Provide adequate space, air conditioning and other environmental conditions, and adequate and appropriate electrical power outlets, distribution, equipment and connections for the installation, operation and support of the equipment.

(5) Provide a designated work area with adequate heat and light, and a secure storage area for equipment delivered to the Purchaser. The Purchaser shall be solely liable for loss or damage to equipment prior to, during and following installation when such equipment is on or within Purchaser's facilities and/or vehicles.

Section 2 SITES

This Agreement is predicated on the utilization of sites and site configurations, which have been selected either by the Purchaser or by Motorola and set forth in Exhibit C. In either situation, should it be determined by either Motorola or Purchaser during the course of performance on this Agreement that the sites or configuration selected are no longer available or desired, new or replacement sites or configuration will be selected and approved by both Motorola and the Purchaser. If any price or schedule adjustments are necessary as a result of these new or replacement sites, such adjustments will be added to this Agreement by change order in accordance with Section 4 of the General Provisions.

Section 3 SUBSURFACE/STRUCTURAL CONDITIONS

This Agreement is predicated upon normal soil conditions defined by E.I.A. standard RS-222 (latest revision). Should Motorola encounter subsurface, structural, adverse environmental and/or latent conditions at any site differing from those indicated on the specifications, or as used in the preparation of the bid price, the Purchaser will be given immediate notice of such conditions before they are further disturbed. Thereupon, Motorola and the Purchaser shall

promptly investigate the conditions and, if found to be different, will adjust the plans and/or specifications as may be necessary. Any changes that cause an adjustment in the contract price or in time required for the performance of any part of the contract shall result in a contract modification in accordance with Section 4 of the General Provisions.

Section 4 PERIOD OF PERFORMANCE

A. Motorola projects that it will be able to obtain final acceptance and completion of the Acceptance Test Plan within the time interval specified in Exhibit C (if applicable). A more detailed timeline shall be provided to Purchaser after the design review and customer kick-off meeting.

B. Whenever a party knows or reasonably should know that any actual or potential condition due to circumstances beyond its control is delaying or threatens to delay the timely performance of the work, the party shall within thirty (30) days give the other party notice thereof and may request an extension of time to perform the work.

C. In order to successfully integrate and implement this project, shipments will be made F.O.B. Destination to Purchaser facilities, local Motorola staging facilities, warehousing facilities, or any combination thereof. It is agreed that this plan is acceptable to Purchaser and that Motorola will advise prior to shipment of actual destination and that Purchaser will accept shipment, and make payment as required by this Agreement.

D. It is also agreed that equipment shipping dates reflected in this Agreement are estimates only, and that shipment may be made at any time prior to, or subsequent to these estimated shipping dates.

Section 5 ACCEPTANCE CRITERIA

A. Motorola will test the Communications System in accordance with the Acceptance Test Plan. System acceptance will occur upon the successful completion of such testing ("System Acceptance") at which time both parties shall promptly execute a certificate of system acceptance. If the Acceptance Test Plan includes separate tests for individual subsystems or phases of the System, both parties shall promptly execute certificates of subsystem acceptance upon the successful completion of testing of such subsystems or phases. Minor omissions or variances in performance which do not materially affect the operation of the Communications System as a whole will not postpone System Acceptance. Purchaser and Motorola will jointly prepare a list of such omissions and variances which Motorola will correct according to an agreed upon schedule.

B. Motorola agrees to notify Purchaser when the Communications System is ready for acceptance testing. Motorola and Purchaser agree to commence acceptance testing within ten (10) business days after receiving such notification. If testing is delayed for reasons within the control of Purchaser or its employees, contractors, agents or consultants for more than ten (10) business days after notification, final payment will be due within thirty (30) days after such notification and the Warranty Period will commence immediately.

C. Motorola may, but is not obligated to, issue written authorization for Purchaser to use the Communications System or its subsystem(s) for limited training or testing purposes, prior to the completion of testing by Motorola. Any use of the Communications System without prior written authorization by Motorola shall constitute System Acceptance.

Section 6 PAYMENT SCHEDULE

A. Motorola agrees to sell all of the equipment and perform the services as outlined in the Scope of Work, and Purchaser agrees to buy the aforementioned equipment and services for the sum of Eighty thousand five hundred eighty-eight dollars ($80,588.00), which includes the H-GAC administration fee. The final price may be adjusted by change orders approved pursuant to Statement of Work attached hereto as Exhibit "C".

B. Payments to Motorola shall be made according to the following milestones:

1. 20% of the total contract price is due at completion of the Customer Design Review.

2. 60% of the total contract price will be invoiced immediately after the Equipment is shipped from Motorola's facilities;

3. 10% of the total contract price will be invoiced immediately after the Equipment is installed at the sites specified in the Exhibits; and

4. 10% of the total contract price will be invoiced immediately after System Acceptance.

Motorola reserves the right to make partial shipments of equipment and to request payment upon shipment of such equipment. In addition, Motorola reserves the right to invoice for installations or civil work completed on a site-by-site basis, when applicable.

C. In the event of failure or delay by the Purchaser in providing sites, space, approvals, licenses, or any other Purchaser obligations required preceding delivery of Motorola equipment, it is agreed that Motorola, at its sole discretion, may ship equipment as planned and that the Purchaser will accept the equipment and make payment in accordance with the terms of this Agreement. Any additional costs incurred by Motorola for storage of equipment will be invoiced and paid by Purchaser.

D. Payments to Motorola shall be made as follows:

(i) Motorola shall immediately forward an invoice for the payment requested in Section 6(B) above to Purchaser.

(ii) Purchaser shall pay the Motorola invoice within thirty (30) calendar days of receipt.

E. Motorola will pay H-GAC's administrative fee in accordance with the payment terms of Motorola/H-GAC Contract dated May 1, 2015.

F. TERM. Unless terminated in accordance with other provisions of this Agreement or extended by mutual agreement of the Parties, the term of this Agreement begins on the date as set forth above and continues until the date of Final Project Acceptance or expiration of the Warranty Period, whichever occurs last.

Section 7 PROJECT MANAGEMENT

A. If the size or complexity of the project warrants, Motorola will assign a Project Manager, who is authorized to exercise technical direction of this project. Motorola, at any time, may designate a new or alternate Project Manager with written notice to Purchaser and H-GAC.

B. All matters affecting the terms of this Agreement or the administration thereof shall be referred to Motorola's cognizant Contract Administrator who shall have authority to negotiate changes in or amendments to this Agreement.

Section 8 NOTICE ADDRESSES

A. Motorola Solutions, Inc.
1303 East Algonquin Road
Schaumburg, IL 60196
Attn.: Law Department

B. Williamson County, Office of the County Judge
Judge Dan Gattis
710 S. Main St
Georgetown, Texas 78626

C. Houston-Galveston Area Council
3555 Timmons Lane, Suite 120
Houston, Texas 77027
Attn.: Public Services Manager

Section 9 ORDER OF PRECEDENCE

In the event of an inconsistency in this Agreement, the inconsistency shall be resolved in the following order:

The main body of this Agreement.

Exhibit A General Provisions.

Exhibit B Motorola Software License.

Exhibit C Technical and Implementation Documents, consisting of: Motorola Proposal for In-Building Jail Distributed Antenna System Expansion all dated May 10, 2017.

Exhibit D Warranty and Maintenance Plan and Service Terms and Conditions (if applicable)

Exhibit E Motorola/H-GAC Contract dated May 15, 2015.

Exhibit F Williamson County Addendum

Section 10 DISPUTES

Motorola and the Purchaser will attempt to settle any claim or controversy arising out of this Agreement through consultation and negotiation in good faith and a spirit of mutual cooperation. If those attempts fail, then the dispute will be mediated by a mutually acceptable mediator to be chosen by Motorola and the Purchaser within thirty (30) days after written notice by one of the parties demanding non-binding mediation. Neither party may unreasonably withhold consent to the selection of a mediator. Motorola and the Purchaser will bear their own costs but will share the cost of the mediator equally. By mutual agreement, however, Motorola and Purchaser may postpone mediation until both parties have completed some specified but limited discovery about the dispute. The parties may also agree to replace mediation with some other form of non-binding alternate dispute resolution procedure ("ADR").

Any dispute which cannot be resolved between the parties through negotiation or mediation within two (2) months of the date of the initial demand for it by one of the parties may then be submitted to a court of competent jurisdiction in Texas. Both Motorola and Purchaser consent to jurisdiction over it by such a court. All communications pursuant to the negotiation and mediation will be treated as compromise and settlement negotiations for purposes of applicable rules of evidence and any additional confidentiality protections provided by applicable law. The use of any ADR procedures will not be considered under the doctrine of laches, waiver or estoppel to affect adversely the rights of either party. Nothing shall prevent either of the parties from resorting to the judicial proceedings mentioned in this paragraph if (a) good faith efforts to attempt resolution of the dispute under these procedures have been unsuccessful or (b) interim relief from the court is necessary to prevent serious and irreparable injury to one of the parties or others.

Section 11 SEVERABILITY

If any portion of this Agreement or any exhibits hereto is held to be invalid, such provision or portion of such provision shall be considered severable, and the remainder of this Agreement shall not be affected.

Section 12 HEADINGS AND SECTION REFERENCES

The headings given to the paragraphs are inserted for convenience only and are in no way to be construed as part of this Agreement or as a limitation of the scope of the particular paragraph to which the heading refers.

Section 13 SURVIVAL OF TERMS

The following provisions will survive the expiration or termination of this Agreement for any reason: Section 6 (Payment Schedule) if any payment obligations exist; Section 9 (Order of Precedence); Section 10 (Disputes); Section 11 (Severability); Section 12 (Headings and Section References); Section 13 (Survival of Terms) and Section 14 (Full Agreement).

Section 14 FULL AGREEMENT

This Agreement and its Exhibits constitute the final expression of the agreement of the parties and supersedes all previous agreements and understandings, whether written or oral, relating to the work. This Agreement may be executed in multiple counterparts, each of which shall be an original and all of which shall constitute one and the same instrument. A facsimile copy or computer image, such as a PDF or tiff image, or a signature shall be treated as and shall have the same effect as an original signature. In addition, a true and correct facsimile copy or computer image of this Agreement shall be treated as and shall have the same effect as an original signed copy of this document. This Agreement may not be altered, amended, or modified except by written instrument signed by duly authorized representatives of the parties. The preprinted terms and conditions found on any Purchaser purchase order, acknowledgment or other form will not be considered an amendment or modification of this Agreement, even if a representative of each party signs that document.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives as of the last day and year written below.

MOTOROLA SOLUTIONS, INC.	**PURCHASER**
By: _____ (Signature)	By: _____ (Signature)
Name: Richard R Russek (Print - Block Letters)	Name: _____ (Print - Block Letters)
Title: Area Sales Manager (Print - Block Letters)	Title: _____ (Print - Block Letters)
Date: October 4, 2017	Date: _____

EXHIBIT A
GENERAL PROVISIONS
MOTOROLA SOLUTIONS, INC.

Section 1 STANDARDS OF WORK

Motorola agrees that the performance of work described in this Agreement and pursuant to this Agreement shall be done in a professional manner and shall conform to professional standards. All packaging and packing shall be in accordance with good commercial practice.

Section 2 TAXES

The prices set forth in the Agreement are exclusive of any amount for Federal, State or Local excise, sales, lease, gross income service, rental, use, property, occupation or similar taxes. If any taxes are determined applicable to this transaction or Motorola is required to pay or bear the burden thereof, the Purchaser agrees to pay to Motorola the amount of such taxes and any interest or penalty thereon no later than thirty (30) days after receipt of an invoice therefor.

Section 3 SHIPPING, TITLE AND RISK OF LOSS

All sales and deliveries are F.O.B. Destination. Motorola reserves the right to make deliveries in installments and the Agreement shall be severable as to such installments. Title to the equipment shall pass to the Purchaser upon receipt at the F.O.B. Destination. After delivery to the F.O.B. Destination, risk of loss and damage to the articles shall be borne by the Purchaser. The above notwithstanding, title to software and any third party supplied software shall not pass upon payment of the license fee therefor or under any circumstances.

Section 4 CHANGES IN THE WORK

A. The Purchaser may, at any time, by written order, make changes within the general scope of the work, including but not limited to revisions of, or additions to, portions of the work, or changes in method of shipment or packaging and place of delivery.

B. If any order under this Section 4 causes an increase or decrease in the cost of or time required for the performance of any part of the work under this Agreement, an equitable adjustment shall be made in the Agreement price or delivery schedule, or both, and the Agreement shall be modified in writing accordingly. Motorola is not obligated to comply with any order hereunder unless and until the parties reach agreement as to the aforementioned equitable adjustment and same is reflected as an addendum to this Agreement.

Section 5 LIMITATION OF LIABILITY

Except for personal injury or death, Motorola's total liability whether for breach of contract, warranty, negligence, indemnification, strict liability in tort or otherwise, is limited to the price of the particular products or services sold hereunder with respect to which losses or damages are claimed. IN NO EVENT WILL MOTOROLA BE LIABLE FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW. This limitation of liability provision survives the expiration or termination of the Agreement and applies notwithstanding any contrary provision. No action shall be brought for any breach of this contract more than two (2) years after the accrual of such cause of action except for money due upon an open account.

Section 6 EXCUSABLE DELAYS

A. Neither Motorola nor the Purchaser shall be responsible for delays or lack of performance resulting from acts beyond the reasonable control of the party or parties. Such acts shall include, but are not be limited to, acts of God; fire; strikes; material shortages; compliance with laws or regulations; riots; acts of war; or any other conditions beyond the reasonable control of the party or parties.

B. Delays as identified herein may cause an impact on the Period of Performance stated in the Agreement. Such delays will be subject to an Agreement addendum as described in Section 4.

Section 7 DEFAULT

A. If either party fails to perform a material obligation under this Agreement, the other party may consider the non-performing party to be in default (unless such failure has been caused by the conditions set forth in Section 6 of these General Provisions) and may assert a default claim by giving the non-performing party a written and detailed notice of default. Except for a default by Purchaser for failing to pay any amount when due under this Agreement which must be cured immediately, the defaulting party will have thirty (30) days after receipt of the notice of default to either cure the default or, if the default is not curable within thirty (30) days, provide a written cure plan. The defaulting party will begin implementing the cure plan immediately after receipt of notice by the other party that it approves the plan. If Purchaser is the defaulting party, Motorola may stop work on the project until it approves the Purchaser's cure plan.

B. If a defaulting party fails to cure the default as provided above in Section 7.A, unless otherwise agreed in writing, the non-defaulting party may terminate any unfulfilled portion of this Agreement. In the event of termination for default, the defaulting party will promptly return to the non-defaulting party any of its confidential information. If Purchaser is the non-defaulting party, terminates this Agreement as

permitted by this Section, and completes the System through a third party, Purchaser may as its exclusive remedy recover from Motorola reasonable costs incurred to complete the System to a capability not exceeding that specified in this Agreement less the unpaid portion of the contract price. Purchaser will mitigate damages and provide Motorola with detailed invoices substantiating the charges. IN THE EVENT OF DEFAULT, MOTOROLA SHALL NOT BE LIABLE FOR ANY INCIDENTAL, LIQUIDATED, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

Section 8 DELAYS BY PURCHASER

If the Purchaser is responsible for delays in the schedule set forth in the Agreement, the Purchaser shall be liable for actual costs incurred by Motorola resulting from these delays if Motorola requests compensation. Such charges may include, but are not limited to, additional Engineering; rescheduling charges; storage charges; maintenance charges; and transportation charges. The Purchaser shall have the option to attempt to minimize actual costs incurred by storing and transporting equipment at its own expense. Such delays will be subject to an Agreement addendum as described in Section 4.

Section 9 LICENSES/AUTHORIZATION

The Purchaser is solely responsible for obtaining any licenses or other authorizations required by the Federal Communications Commission and for complying with FCC rules. Neither Motorola nor any of its employees is an agent or representative of the Purchaser in FCC matters or otherwise. Motorola, however, may assist in the preparation of the license application at no charge to the Purchaser. Purchaser acknowledges that project implementation is predicated on receipt of proper FCC licensing.

Section 10 INDEMNIFICATION

Motorola agrees to and hereby indemnifies and saves Purchaser harmless from all liabilities, judgments, costs, damages and expenses which may accrue against, be charged to, or recovered from the Purchaser by reason of or on account of damage to the tangible property of the Purchaser or the property of, injury to, or death of any person, to the extent and in the proportion that such damage or injury is caused by Motorola's negligent acts or omissions or that of its employees, subcontractors, or agents while on the premises of the Purchaser during the delivery and installation of the communications equipment. IN NO EVENT WILL MOTOROLA BE LIABLE FOR INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

Section 11 WARRANTIES

A. WARRANTY PERIOD. Upon System Acceptance, the System Functionality representation described below is fulfilled. The Equipment and Motorola Software is warranted for a period of one (1) year after System Acceptance ("Warranty Period") in accordance with the applicable limited warranties shown below. In no event will the warranty period last longer than eighteen (18) months after the Equipment and Software

is shipped from Motorola. Purchaser must notify Motorola in writing if Equipment or Motorola Software does not conform to these warranties no later than one month after the expiration of the Warranty Period.

B. SYSTEM FUNCTIONALITY. Motorola represents that the Communications System will satisfy the functional requirements in Exhibit C. Upon System Acceptance, this System Functionality representation is fulfilled. After System Acceptance, the Equipment Warranty set forth below and the Software Warranty set forth in the Software License Agreement will apply.

Motorola will not be responsible for performance deficiencies of the System caused by ancillary equipment not furnished by Motorola which is attached to or used in connection with the System provided hereunder. Additionally, Motorola will not be responsible for System performance when the functionality is reduced for reasons beyond Motorola's control including, but not limited to, i) an earthquake, adverse atmospheric conditions or other natural causes; ii) the construction of a building that adversely affects the microwave path reliability or RF coverage; iii) the addition of additional frequencies at System sites that cause RF interference or intermodulation; iv) Purchaser changes to load usage and/or configuration outside the parameters specified in Exhibit C; v) any other act of parties who are beyond Motorola's control, including Purchaser or its employees, contractors, consultants or agents.

C. EQUIPMENT WARRANTY. Motorola warrants the Equipment against material defects in material and workmanship under normal use and service during the Warranty Period. Unless otherwise specified in writing, the Warranty Period for non-Motorola manufactured Equipment will be as stated in this Section. At no additional charge and at its option, Motorola will either repair the defective Equipment, replace it with the same or equivalent Equipment, or refund the purchase price of the defective Equipment, and such action on the part of Motorola will be the full extent of Motorola's liability hereunder. Repaired or replaced Equipment is warranted for the balance of the original applicable warranty period. All replaced parts of the Equipment shall become the property of Motorola.

THIS WARRANTY DOES NOT APPLY TO

a) Defects or damage resulting from use of the Equipment in other than its normal and customary manner.

b) Defects or damage occurring from misuse, accident, liquids, neglect or acts of God.

c) Defects or damage occurring from testing, maintenance, installation, alteration, modification, or adjustment not provided by Motorola pursuant to this System Purchase Agreement.

d) Breakage of or damage to antennas unless caused directly by defects in material or workmanship.

e) Equipment that has been subjected to unauthorized modifications, disassembly or repairs (including the addition to the Equipment of non-Motorola supplied equipment if not authorized by Motorola) which adversely affect performance of the Equipment or interfere with Motorola's normal warranty inspection and testing of the Equipment to verify any warranty claim.

f) Equipment that has had the serial number removed or made illegible.

g) Batteries (because they carry their own separate limited warranty).

h) Freight costs to the repair depot.

i) Equipment that has been subject to illegal or unauthorized alteration of the software/firmware in the Equipment.

j) Scratches or other cosmetic damage to Equipment surfaces that does not affect the operation of the Equipment.

k) Software.

l) Normal or customary wear and tear.

D. Motorola Software Warranty. Motorola Software is warranted in accordance with the terms of the Software License Agreement attached as Exhibit B.

E. These express limited warranties as set forth in this Section are extended by Motorola to the original end user purchasing or leasing the System for commercial, industrial, or governmental use only, and are not assignable or transferable. These are the complete warranties for the Equipment and Software provided pursuant to this Agreement.

F. THESE WARRANTIES ARE GIVEN IN LIEU OF ALL OTHER WARRANTIES. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE EQUIPMENT. IN NO EVENT WILL MOTOROLA BE LIABLE FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE EQUIPMENT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

Section 12 CONFIDENTIAL INFORMATION

Motorola proprietary computer programs will be released in accordance with the Software License provisions set forth elsewhere, if applicable. All other material and information of confidential nature marked Motorola PROPRIETARY and/or CONFIDENTIAL will be released as necessary under the following conditions:

(1) Purchaser shall exercise reasonable and prudent measures to keep these items in confidence.

(2) Purchaser shall not disclose these items to third parties without prior written permission, unless Motorola makes them public or Purchaser learns them rightfully from sources independent of Motorola, or it is required by law to be disclosed.

(3) Motorola, where necessary, retains the right to prescribe specific security measures for the Purchaser to follow to maintain the confidentiality.

In the event disclosure of such information is necessary, a separate Non-Disclosure Agreement will be required.

Section 13 SOFTWARE LICENSE

A. Motorola Software. Any Motorola Software furnished will be licensed to Purchaser solely according to the terms and restrictions of the Software License Agreement attached as Exhibit B. Purchaser hereby accepts all of the terms and restrictions of the Software License Agreement.

B. Non-Motorola Software. Any Non-Motorola Software furnished by Motorola will be subject to the terms and restrictions of its copyright owner unless such copyright owner has granted to Motorola the right to sublicense such Non-Motorola Software pursuant to the Software License Agreement, in which case the Software License Agreement (including any addendum to satisfy such copyright owner's requirements) shall apply and the copyright owner will have all of Motorola's rights and protections under the Software License Agreement.

Section 14 PATENT INDEMNIFICATION

A. Motorola will defend at its expense any suit brought against Purchaser to the extent it is based on a third-party claim alleging that the Equipment manufactured by Motorola or the Motorola Software ("Motorola Product") directly infringes a United States patent or copyright ("Infringement Claim"). Motorola's duties to defend and indemnify are conditioned upon: Purchaser promptly notifying Motorola in writing of the Infringement Claim; Motorola having sole control of the defense of the suit and all negotiations for its settlement or compromise; and Purchaser providing to Motorola cooperation and, if requested by Motorola, reasonable assistance in the defense of the Infringement Claim. In addition to Motorola's obligation to defend, and subject to the

same conditions, Motorola will pay all damages finally awarded against Purchaser by a court of competent jurisdiction for an Infringement Claim or agreed to, in writing, by Motorola in settlement of an Infringement Claim.

B. If an Infringement Claim occurs, or in Motorola's opinion is likely to occur, Motorola may at its option and expense: (a) procure for Purchaser the right to continue using the Motorola Product; (b) replace or modify the Motorola Product so that it becomes non-infringing while providing functionally equivalent performance; or (c) accept the return of the Motorola Product and grant Purchaser a credit for the Motorola Product, less a reasonable charge for depreciation. The depreciation amount will be calculated based upon generally accepted accounting standards.

C. Motorola will have no duty to defend or indemnify for any Infringement Claim that is based upon: (a) the combination of the Motorola Product with any software, apparatus or device not furnished by Motorola; (b) the use of ancillary equipment or software not furnished by Motorola and that is attached to or used in connection with the Motorola Product; (c) Motorola Product designed or manufactured in accordance with Purchaser's designs, specifications, guidelines or instructions, if the alleged infringement would not have occurred without such designs, specifications, guidelines or instructions; (d) a modification of the Motorola Product by a party other than Motorola; (e) use of the Motorola Product in a manner for which the Motorola Product was not designed or that is inconsistent with the terms of this Agreement; or (f) the failure by Purchaser to install an enhancement release to the Motorola Software that is intended to correct the claimed infringement. In no event will Motorola's liability resulting from its indemnity obligation to Purchaser extend in any way to royalties payable on a per use basis or the Purchaser's revenues, or any royalty basis other than a reasonable royalty based upon revenue derived by Motorola from Purchaser from sales or license of the infringing Motorola Product.

D. This Section 14 provides Purchaser's sole and exclusive remedies and Motorola's entire liability in the event of an Infringement Claim. Purchaser has no right to recover and Motorola has no obligation to provide any other or further remedies, whether under another provision of this Agreement or any other legal theory or principle, in connection with an Infringement Claim. In addition, the rights and remedies provided in this Section 14 are subject to and limited by the restrictions set forth in Section 5.

Section 15 DISCLAIMER OF PATENT LICENSE

Nothing contained in this Agreement shall be deemed to grant, either directly or by implication, estoppel, or otherwise, any license under any patents or patent applications of Motorola, except that Purchaser shall have the normal non-exclusive royalty-free license to use that is implied, or otherwise arises by operation of law, in the sale of a product.

Section 16 WAIVER

Failure or delay on the part of Motorola or Purchaser to exercise a right or power hereunder shall not operate as a waiver of the right or power. For a waiver of a right or power to be effective, it must be in a writing signed by the waiving party. An effective waiver of a right or power will not be construed as either a future or continuing waiver of that same right or power, or the waiver of any other right or power.

Section 17 GOVERNING LAW

This Agreement shall be governed by and construed in accordance with the laws of the State of Texas.

Section 18 ASSIGNABILITY

Except as provided herein, neither party may assign this Agreement or any of its rights or obligations hereunder without the prior written consent of the other party, which consent will not be unreasonably withheld. Any attempted assignment, delegation, or transfer without the necessary consent will be void. Notwithstanding the foregoing, Motorola may assign this Agreement to any of its affiliates or its right to receive payment without the prior consent of Purchaser. In addition, in the event Motorola separates one or more of its businesses (each a "Separated Business"), whether by way of a sale, establishment of a joint venture, spin-off or otherwise (each a "Separation Event"), Motorola may, without the prior written consent of the other party and at no additional cost to Motorola, assign this Agreement such that it will continue to benefit the Separated Business and its affiliates (and Motorola and its affiliates, to the extent applicable) following the Separation Event. Motorola may subcontract any of the work, but subcontracting will not relieve Motorola of its duties under this Agreement..

Section 19 SURVIVAL OF TERMS

The following provisions will survive the expiration or termination of this Agreement for any reason: Section 2 (Taxes); Section 5 (Limitation of Liability); Section 7 (Default); Subsection 11.F (Disclaimer of Implied Warranties); Section 12 (Confidential Information); Section 13 (Software License); and Section 16 (Waiver); Section 17 (Governing Law) and Section 19 (Survival of Terms).

Section 20 ADMINISTRATOR LEVEL ACCOUNT ACCESS

Motorola will provide Purchaser with Administrative User Credentials. Purchaser agrees to only grant Administrative User Credentials to those personnel with the training or experience to correctly use the access. Purchaser is responsible for protecting Administrative User Credentials from disclosure and maintaining Credential validity by, among other things, updating passwords when required. Purchaser may be asked to provide valid Administrative User Credentials when in contact with Motorola System support. Purchaser understands that changes made as the Administrative User can significantly impact the performance of the System. Purchaser agrees that it will be solely responsible for any negative impact on the System or its users by any such changes. System issues occurring as a result of changes made by an Administrative User

may impact Motorola's ability to perform its obligations under the Agreement or its Maintenance and Support Agreement. In such cases, a revision to the appropriate provisions of the Agreement, including the Statement of Work, may be necessary. To the extent Motorola provides assistance to correct any issues caused by or arising out of the use of or failure to maintain Administrative User Credentials, Motorola will be entitled to bill Purchaser and Purchaser will pay Motorola on a time and materials basis for resolving the issue.

Section 21 MAINTENANCE SERVICE

If this Agreement contains a Warranty and Maintenance Plan, then, during the Warranty Period, in addition to warranty services, Motorola will provide maintenance services for the Equipment and support for the Motorola Software pursuant to the terms of this Agreement, including the Warranty and Maintenance Plan and Service Terms and Conditions. Such services and support are included in the Contract Price. If Customer wishes to purchase additional maintenance and support services during the Warranty Period, or any maintenance and support services after the Warranty Period, the description of and pricing for such services will be set forth in a separate document. Unless otherwise agreed by the Parties in writing, the terms and conditions applicable to such maintenance and support will be Motorola's standard Service Terms and Conditions, together with the appropriate statements of work.

Exhibit B

Software License Agreement

This Exhibit B, Software License Agreement ("Agreement") is between Motorola Solutions, Inc., (“Motorola"), and _Williamson County_ (“Licensee”).

For good and valuable consideration, the parties agree as follows:

Section 1 DEFINITIONS

1.1 “Designated Products” means products provided by Motorola to Licensee with which or for which the Software and Documentation is licensed for use.

1.2 “Documentation” means product and software documentation that specifies technical and performance features and capabilities, and the user, operation and training manuals for the Software (including all physical or electronic media upon which such information is provided).

1.3 “Open Source Software” means software with either freely obtainable source code, license for modification, or permission for free distribution.

1.4 “Open Source Software License” means the terms or conditions under which the Open Source Software is licensed.

1.5 “Primary Agreement” means the agreement to which this exhibit is attached.

1.6 “Security Vulnerability” means a flaw or weakness in system security procedures, design, implementation, or internal controls that could be exercised (accidentally triggered or intentionally exploited) and result in a security breach such that data is compromised, manipulated or stolen or the system damaged.

1.7 “Software” (i) means proprietary software in object code format, and adaptations, translations, de-compilations, disassemblies, emulations, or derivative works of such software; (ii) means any modifications, enhancements, new versions and new releases of the software provided by Motorola; and (iii) may contain one or more items of software owned by a third party supplier. The term "Software" does not include any third party software provided under separate license or third party software not licensable under the terms of this Agreement.

Section 2 SCOPE

Motorola and Licensee enter into this Agreement in connection with Motorola's delivery of certain proprietary Software or products containing embedded or pre-loaded proprietary Software, or both. This Agreement contains the terms and conditions of the license Motorola is providing to Licensee, and Licensee’s use of the Software and Documentation.

Section 3 GRANT OF LICENSE

3.1. Subject to the provisions of this Agreement and the payment of applicable license fees, Motorola grants to Licensee a personal, limited, non-transferable (except as permitted in Section 7) and non-exclusive license under Motorola’s copyrights and Confidential Information (as defined in the Primary Agreement) embodied in the Software to use the Software, in object code form, and the Documentation solely in connection with Licensee's use of the Designated Products. This Agreement does not grant any rights to source code.

3.2. If the Software licensed under this Agreement contains or is derived from Open Source Software, the terms and conditions governing the use of such Open Source Software are in the Open Source Software Licenses of the copyright owner and not this Agreement. If there is a conflict between the terms and conditions of this Agreement and the terms and conditions of the Open Source Software Licenses governing Licensee's use of the Open Source Software, the terms and conditions of the license grant of the applicable Open Source Software Licenses will take precedence over the license grants in this Agreement. If requested by Licensee, Motorola will use commercially reasonable efforts to: (i) determine whether any Open Source Software is provided under this Agreement; (ii) identify the Open Source Software and provide Licensee a copy of the applicable Open Source Software License (or specify where that license may be found); and, (iii) provide Licensee a copy of the Open Source Software source code, without charge, if it is publicly available (although distribution fees may be applicable).

Section 4 LIMITATIONS ON USE

4.1. Licensee may use the Software only for Licensee's internal business purposes and only in accordance with the Documentation. Any other use of the Software is strictly prohibited. Without limiting the general nature of these restrictions, Licensee will not make the Software available for use by third parties on a "time sharing," "application service provider," or "service bureau" basis or for any other similar commercial rental or sharing arrangement.

4.2. Licensee will not, and will not allow or enable any third party to: (i) reverse engineer, disassemble, peel components, decompile, reprogram or otherwise reduce the Software or any portion to a human perceptible form or otherwise attempt to recreate the source code; (ii) modify, adapt, create derivative works of, or merge the Software; (iii) copy, reproduce, distribute, lend, or lease the Software or Documentation to any third party, grant any sublicense or other rights in the Software or Documentation to any third party, or take any action that would cause the Software or Documentation to be placed in the public domain; (iv) remove, or in any way alter or obscure, any copyright notice or other notice of Motorola's proprietary rights; (v) provide, copy, transmit, disclose, divulge or make the Software or Documentation available to, or permit the use of the Software by any third party or on any machine except as expressly authorized by this Agreement; or (vi) use, or permit the use of, the Software in a manner that would result in the production of a copy of the Software solely by activating a machine containing the Software. Licensee may make one copy of Software to be used solely for archival, back-up, or disaster recovery purposes; *provided* that Licensee may not operate that copy of the Software at the same time as the original Software is being operated. Licensee may make as many copies of the Documentation as it may reasonably require for the internal use of the Software.

4.3. Unless otherwise authorized by Motorola in writing, Licensee will not, and will not enable or allow any third party to: (i) install a licensed copy of the Software on more than one unit of a Designated Product; or (ii) copy onto or transfer Software installed in one unit of a Designated Product onto one other device. Licensee may temporarily transfer Software installed on a Designated Product to another device if the Designated Product is inoperable or malfunctioning, if Licensee provides written notice to Motorola of the temporary transfer and identifies the device on which the Software is transferred. Temporary transfer of the Software to another device must be discontinued when the original Designated Product is returned to operation and the Software must be removed from the other device. Licensee must provide prompt written notice to Motorola at the time temporary transfer is discontinued.

4.4. When using Motorola's Radio Service Software ("RSS"), Licensee must purchase a separate license for each location at which Licensee uses RSS. Licensee's use of RSS at a licensed location does not entitle Licensee to use or access RSS remotely. Licensee may make one copy of RSS for each licensed location. Licensee shall provide Motorola with a list of all locations at which Licensee uses or intends to use RSS upon Motorola's request.

4.5. Licensee will maintain, during the term of this Agreement and for a period of two years thereafter, accurate records relating to this license grant to verify compliance with this Agreement. Motorola or an independent third party ("Auditor") may inspect Licensee's premises, books and records, upon reasonable

prior notice to Licensee, during Licensee's normal business hours and subject to Licensee's facility and security regulations. Motorola is responsible for the payment of all expenses and costs of the Auditor. Any information obtained by Motorola and the Auditor will be kept in strict confidence by Motorola and the Auditor and used solely for the purpose of verifying Licensee's compliance with the terms of this Agreement.

Section 5 OWNERSHIP AND TITLE

Motorola, its licensors, and its suppliers retain all of their proprietary rights in any form in and to the Software and Documentation, including, but not limited to, all rights in patents, patent applications, inventions, copyrights, trademarks, trade secrets, trade names, and other proprietary rights in or relating to the Software and Documentation (including any corrections, bug fixes, enhancements, updates, modifications, adaptations, translations, de-compilations, disassemblies, emulations to or derivative works from the Software or Documentation, whether made by Motorola or another party, or any improvements that result from Motorola's processes or, provision of information services). No rights are granted to Licensee under this Agreement by implication, estoppel or otherwise, except for those rights which are expressly granted to Licensee in this Agreement. All intellectual property developed, originated, or prepared by Motorola in connection with providing the Software, Designated Products, Documentation or related services, remains vested exclusively in Motorola, and Licensee will not have any shared development or other intellectual property rights.

Section 6 LIMITED WARRANTY; DISCLAIMER OF WARRANTY

6.1. The commencement date and the term of the Software warranty will be a period of ninety (90) days from Motorola's shipment of the Software (the "Warranty Period"). If Licensee is not in breach of any of its obligations under this Agreement, Motorola warrants that the unmodified Software, when used properly and in accordance with the Documentation and this Agreement, will be free from a reproducible defect that eliminates the functionality or successful operation of a feature critical to the primary functionality or successful operation of the Software. Whether a defect occurs will be determined by Motorola solely with reference to the Documentation. Motorola does not warrant that Licensee's use of the Software or the Designated Products will be uninterrupted, error-free, completely free of Security Vulnerabilities, or that the Software or the Designated Products will meet Licensee's particular requirements. Motorola makes no representations or warranties with respect to any third party software included in the Software.

6.2 Motorola's sole obligation to Licensee and Licensee's exclusive remedy under this warranty is to use reasonable efforts to remedy any material Software defect covered by this warranty. These efforts will involve either replacing the media or attempting to correct significant, demonstrable program or documentation errors or Security Vulnerabilities. If Motorola cannot correct the defect within a reasonable time, then at Motorola's option, Motorola will replace the defective Software with functionally-equivalent Software, license to Licensee substitute Software which will accomplish the same objective, or terminate the license and refund the Licensee's paid license fee.

6.3. Warranty claims are described in the Primary Agreement.

6.4. The express warranties set forth in this Section 6 are in lieu of, and Motorola disclaims, any and all other warranties (express or implied, oral or written) with respect to the Software or Documentation, including, without limitation, any and all implied warranties of condition, title, non-infringement, merchantability, or fitness for a particular purpose or use by Licensee (whether or not Motorola knows, has reason to know, has been advised, or is otherwise aware of any such purpose or use), whether arising by law, by reason of custom or usage of trade, or by course of dealing. In addition, Motorola disclaims any warranty to any person other than Licensee with respect to the Software or Documentation.

Section 7 TRANSFERS

Licensee will not transfer the Software or Documentation to any third party without Motorola's prior written consent. Motorola's consent may be withheld at its discretion and may be conditioned upon transferee paying all applicable license fees and agreeing to be bound by this Agreement. If the Designated Products are Motorola's radio products and Licensee transfers ownership of the Motorola radio products to a third party, Licensee may assign its right to use the Software (other than RSS and Motorola's FLASHport® software) which is embedded in or furnished for use with the radio products and the related Documentation; *provided* that Licensee transfers all copies of the Software and Documentation to the transferee, and Licensee and the transferee sign a transfer form to be provided by Motorola upon request, obligating the transferee to be bound by this Agreement.

Section 8 TERM AND TERMINATION

8.1 Licensee's right to use the Software and Documentation will begin when the Primary Agreement is signed by both parties and will continue for the life of the Designated Products with which or for which the Software and Documentation have been provided by Motorola, unless Licensee breaches this Agreement, in which case this Agreement and Licensee's right to use the Software and Documentation may be terminated immediately upon notice by Motorola.

8.2 Within thirty (30) days after termination of this Agreement, Licensee must certify in writing to Motorola that all copies of the Software have been removed or deleted from the Designated Products and that all copies of the Software and Documentation have been returned to Motorola or destroyed by Licensee and are no longer in use by Licensee.

8.3 Licensee acknowledges that Motorola made a considerable investment of resources in the development, marketing, and distribution of the Software and Documentation and that Licensee's breach of this Agreement will result in irreparable harm to Motorola for which monetary damages would be inadequate. If Licensee breaches this Agreement, Motorola may terminate this Agreement and be entitled to all available remedies at law or in equity (including immediate injunctive relief and repossession of all non-embedded Software and associated Documentation unless Licensee is a Federal agency of the United States Government).

Section 9 UNITED STATES GOVERNMENT LICENSING PROVISIONS

This Section applies if Licensee is the United States Government or a United States Government agency. Licensee's use, duplication or disclosure of the Software and Documentation under Motorola's copyrights or trade secret rights is subject to the restrictions set forth in subparagraphs (c)(1) and (2) of the Commercial Computer Software-Restricted Rights clause at FAR 52.227-19 (JUNE 1987), if applicable, unless they are being provided to the Department of Defense. If the Software and Documentation are being provided to the Department of Defense, Licensee's use, duplication, or disclosure of the Software and Documentation is subject to the restricted rights set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 (OCT 1988), if applicable. The Software and Documentation may or may not include a Restricted Rights notice, or other notice referring to this Agreement. The provisions of this Agreement will continue to apply, but only to the extent that they are consistent with the rights provided to the Licensee under the provisions of the FAR or DFARS mentioned above, as applicable to the particular procuring agency and procurement transaction.

Section 10 CONFIDENTIALITY

Licensee acknowledges that the Software and Documentation contain Motorola's valuable proprietary and confidential information and are Motorola's trade secrets. Licensee will not disclose the Software and Documentation to any third party except as permitted by this Agreement or expressly in writing by Motorola. Licensee will take necessary and appropriate precautions to maintain the confidentiality and guard against the unauthorized disclosure of the Software and Documentation. Licensee will limit access

to the Software and Documentation only to Licensee's employees who "need to know" and are authorized to use the Software and Documentation as permitted by this Agreement.

Section 11 LIMITATION OF LIABILITY

The Limitation of Liability provision is described in the Primary Agreement.

Section 12 NOTICES

Notices are described in the Primary Agreement.

Section 13 GENERAL

13.1. COPYRIGHT NOTICES. The existence of a copyright notice on the Software will not be construed as an admission or presumption of publication of the Software or public disclosure of any trade secrets associated with the Software.

13.2. COMPLIANCE WITH LAWS. Licensee acknowledges that the Software is subject to the laws and regulations of the United States and Licensee will comply with all applicable laws and regulations, including export laws and regulations of the United States. Licensee will not, without the prior authorization of Motorola and the appropriate governmental authority of the United States, in any form export or re-export, sell or resell, ship or reship, or divert, through direct or indirect means, any item or technical data or direct or indirect products sold or otherwise furnished to any person within any territory for which the United States Government or any of its agencies at the time of the action, requires an export license or other governmental approval. Violation of this provision is a material breach of this Agreement.

13.3. ASSIGNMENTS AND SUBCONTRACTING. Motorola may assign its rights or subcontract its obligations under this Agreement, or encumber or sell its rights in any Software, without prior notice to or consent of Licensee.

13.4. GOVERNING LAW. This Agreement is governed by the laws of the United States to the extent that they apply and otherwise by the internal substantive laws of the State to which the Software is shipped if Licensee is a sovereign government entity, or the internal substantive laws of the State of Illinois if Licensee is not a sovereign government entity. The terms of the U.N. Convention on Contracts for the International Sale of Goods do not apply. In the event that the Uniform Computer Information Transaction Act, any version of this Act, or a substantially similar law (collectively "UCITA") becomes applicable to a party's performance under this Agreement, UCITA does not govern any aspect of this Agreement or any license granted under this Agreement, or any of the parties' rights or obligations under this Agreement. The governing law will be that in effect prior to the applicability of UCITA.

13.5. THIRD PARTY BENEFICIARIES. This Agreement is entered into solely for the benefit of Motorola and Licensee. No third party has the right to make any claim or assert any right under this Agreement, and no third party is deemed a beneficiary of this Agreement. Notwithstanding the foregoing, any licensor or supplier of third party software included in the Software will be a direct and intended third party beneficiary of this Agreement.

13.6. SURVIVAL. Sections 4, 5, 6.4, 7, 8, 9, 10, 11 and 13 survive the termination of this Agreement.

13.7. ORDER OF PRECEDENCE. In the event of inconsistencies between this Exhibit and the Primary Agreement, the parties agree that this Exhibit prevails, only with respect to the specific subject matter of this Exhibit, and not the Primary Agreement or any other exhibit as it applies to any other subject matter.

13.8 SECURITY. Motorola uses reasonable means in the design and writing of its own Software and the acquisition of third party Software to limit Security Vulnerabilities. While no software can be

guaranteed to be free from Security Vulnerabilities, if a Security Vulnerability is discovered, Motorola will take the steps set forth in Section 6 of this Agreement.

Exhibit C

Technical and Implementation Documents

Exhibit D

Motorola/H-GAC Radio Communications Equipment & Systems Agreement

Exhibit E

Service Terms and Conditions

Motorola Solutions, Inc. ("Motorola") and the customer named in this Agreement ("Customer") hereby agree as follows:

Section 1 APPLICABILITY

These Service Terms and Conditions apply to service contracts whereby Motorola will provide to Customer either (1) maintenance, support and/or other services under a Motorola Service Agreement, or (2) installation services under a Motorola Installation Agreement.

Section 2 DEFINITIONS AND INTERPRETATION

2.1 "Agreement" means these Service Terms and Conditions; the cover page for the Service Agreement or the Installation Agreement, as applicable; and any other attachments, all of which are incorporated herein by this reference. In interpreting this Agreement and resolving any ambiguities, these Service Terms and Conditions take precedence over any cover page, and the cover page takes precedence over any attachments, unless the cover page or attachment states otherwise.

2.2 "Equipment" means the equipment that is specified in the attachments or is subsequently added to this Agreement.

2.3 "Services" means those installation, maintenance, support, training, and other services described in this Agreement.

Section 3 ACCEPTANCE

Customer accepts these Service Terms and Conditions and agrees to pay the prices set forth in the Agreement. This Agreement becomes binding only when accepted in writing by Motorola. The term of this Agreement begins on the "Start Date" indicated in this Agreement.

Section 4 SCOPE OF SERVICES

4.1. Motorola will provide the Services described in this Agreement or in a more detailed statement of work or other document attached to this Agreement. At Customer's request, Motorola may also provide additional services at Motorola's then-applicable rates for the services.

4.2. If Motorola is providing Services for Equipment, Motorola parts or parts of equal quality will be used; the Equipment will be serviced at levels set forth in the manufacturer's product manuals; and routine service procedures that are prescribed by Motorola will be followed.

4.3. If Customer purchases from Motorola additional equipment that becomes part of the same system as the initial Equipment, the additional equipment may be added to this Agreement and will be billed at the applicable rates after the warranty for the additional equipment expires.

4.4. All Equipment must be in good working order on the Start Date or when additional equipment is added to the Agreement. Upon reasonable request by Motorola, Customer will provide a complete serial and model number list of the Equipment. Customer must promptly notify Motorola in writing when any Equipment is lost, damaged, stolen or taken out of service. Customer's obligation to pay Service fees for such Equipment will terminate at the end of the month in which Motorola receives the written notice.

4.5. Customer must specifically identify any Equipment that is labeled intrinsically safe for use in hazardous environments.

4.6. If Equipment cannot, in Motorola's reasonable opinion, be properly or economically serviced for any reason, Motorola may modify the scope of Services related to such Equipment; remove that Equipment from the Agreement; or increase the price to Service such Equipment.

4.7. Customer must promptly notify Motorola of any Equipment failure. Motorola will respond to Customer's notification in a manner consistent with the level of Service purchased as indicated in this Agreement.

Section 5 EXCLUDED SERVICES

5.1. Service excludes the repair or replacement of Equipment that has become defective or damaged from use in other than the normal, customary, intended, and authorized manner; use not in compliance with applicable industry standards; excessive wear and tear; or accident, liquids, power surges, neglect, acts of God or other force majeure events.

5.2. Unless specifically included in this Agreement, Service excludes items that are consumed in the normal operation of the Equipment, such as batteries or magnetic tapes.; upgrading or reprogramming Equipment; accessories, belt clips, battery chargers, custom or special products, modified units, or software; and repair or maintenance of any transmission line, antenna, microwave equipment, tower or tower lighting, duplexer, combiner, or multicoupler. Motorola has no obligations for any transmission medium, such as telephone lines, computer networks, the internet or the worldwide web, or for Equipment malfunction caused by such transmission medium.

Section 6 TIME AND PLACE OF SERVICE

Service will be provided at the location specified in this Agreement. When Motorola performs service at Customer's location, Customer will provide Motorola, at no charge, a non-hazardous work environment with adequate shelter, heat, light, and power and with full and free access to the Equipment. Waivers of liability from Motorola or its subcontractors will not be imposed as a site access requirement. Customer will provide all information pertaining to the hardware and software elements of any system with which the Equipment is interfacing so that Motorola may perform its Services. Unless otherwise stated in this Agreement, the hours of Service will be 8:30 a.m. to 4:30 p.m., local time, excluding weekends and holidays. Unless otherwise stated in this Agreement, the price for the Services exclude any charges or expenses associated with helicopter or other unusual access requirements; if these charges or expenses are reasonably incurred by Motorola in rendering the Services, Customer agrees to reimburse Motorola for those charges and expenses.

Section 7 CUSTOMER Contact

Customer will provide Motorola with designated points of contact (list of names and phone numbers) that will be available twenty-four (24) hours per day, seven (7) days per week, and an escalation procedure to enable Customer's personnel to maintain contact, as needed, with Motorola.

Section 8 PAYMENT

Unless alternative payment terms are stated in this Agreement, Motorola will invoice Customer in advance for each payment period. All other charges will be billed monthly, and Customer must pay each invoice in U.S. dollars within thirty (30) days of the invoice date. Customer will reimburse Motorola for all property taxes, sales and use taxes, excise taxes, and other taxes or assessments that are levied as a result of Services rendered under this Agreement (except income, profit, and franchise taxes of Motorola) by any governmental entity.

Section 9 WARRANTY

Motorola warrants that its Services under this Agreement will be free of defects in materials and workmanship for a period of ninety (90) days from the date the performance of the Services are completed. In the event of a breach of this warranty, Customer's sole remedy is to require Motorola to re-perform the non-conforming Service or to refund, on a pro-rata basis, the fees paid for the non-conforming Service. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Section 10 DEFAULT/TERMINATION

10.1. If either party defaults in the performance of this Agreement, the other party will give to the non-performing party a written and detailed notice of the default. The non-performing party will have thirty (30) days thereafter to provide a written plan to cure the default that is acceptable to the other party and begin implementing the cure plan immediately after plan approval. If the non-performing party fails to provide or implement the cure plan, then the injured party, in addition to any other rights available to it

under law, may immediately terminate this Agreement effective upon giving a written notice of termination to the defaulting party.

10.2. Any termination of this Agreement will not relieve either party of obligations previously incurred pursuant to this Agreement, including payments which may be due and owing at the time of termination. All sums owed by Customer to Motorola will become due and payable immediately upon termination of this Agreement. Upon the effective date of termination, Motorola will have no further obligation to provide Services.

Section 11 LIMITATION OF LIABILITY

Except for personal injury or death, Motorola's total liability, whether for breach of contract, warranty, negligence, strict liability in tort, or otherwise, will be limited to the direct damages recoverable under law, but not to exceed the price of twelve (12) months of Service provided under this Agreement. ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF SUCH LOSSES OR DAMAGES, THEY AGREE THAT MOTOROLA WILL NOT BE LIABLE FOR ANY COMMERCIAL LOSS; INCONVENIENCE; LOSS OF USE, TIME, DATA, GOOD WILL, REVENUES, PROFITS OR SAVINGS; OR OTHER SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS AGREEMENT OR THE PERFORMANCE OF SERVICES BY MOTOROLA PURSUANT TO THIS AGREEMENT. No action for contract breach or otherwise relating to the transactions contemplated by this Agreement may be brought more than two (2) years after the accrual of such cause of action, except for money due upon an open account. This limitation of liability will survive the expiration or termination of this Agreement and applies notwithstanding any contrary provision.

Section 12 EXCLUSIVE TERMS AND CONDITIONS

12.1. This Agreement supersedes all prior and concurrent agreements and understandings between the parties, whether written or oral, related to the Services, and there are no agreements or representations concerning the subject matter of this Agreement except for those expressed herein. The Agreement may not be amended or modified except by a written agreement signed by authorized representatives of both parties.

12.2. Customer agrees to reference this Agreement on any purchase order issued in furtherance of this Agreement, however, an omission of the reference to this Agreement will not affect its applicability. In no event will either party be bound by any terms contained in a Customer purchase order, acknowledgement, or other writing unless: the purchase order, acknowledgement, or other writing specifically refers to this Agreement; clearly indicate the intention of both parties to override and modify this Agreement; and the purchase order, acknowledgement, or other writing is signed by authorized representatives of both parties**.**

Section 13 PROPRIETARY INFORMATION; CONFIDENTIALITY; INTELLECTUAL PROPERTY RIGHTS

13.1. Any information or data in the form of specifications, drawings, reprints, technical information or otherwise furnished to Customer under this Agreement will remain Motorola’s property, will be deemed proprietary, will be kept confidential, and will be promptly returned at Motorola's request. Customer may not disclose, without Motorola's written permission or as required by law, any confidential information or data to any person, or use confidential information or data for any purpose other than performing its obligations under this Agreement. The obligations set forth in this Section survive the expiration or termination of this Agreement.

13.2. Unless otherwise agreed in writing, no commercial, financial or technical information disclosed in any manner or at any time by Customer to Motorola will be deemed secret or confidential. Motorola will have no obligation to provide Customer with access to its confidential and proprietary information, including cost and pricing data.

13.3. This Agreement does not grant directly or by implication, estoppel, or otherwise, any ownership right or license under any Motorola patent, copyright, trade secret, or other intellectual property including any intellectual property created as a result of or related to the Equipment sold or Services performed under this Agreement.

Section 14 FCC LICENSES AND OTHER AUTHORIZATIONS

Customer is solely responsible for obtaining licenses or other authorizations required by the Federal Communications Commission or any other federal, state, or local government agency and for complying with all rules and regulations required by such agencies. Neither Motorola nor any of its employees is an agent or representative of Customer in any governmental matters.

Section 15 COVENANT NOT TO EMPLOY

During the term of this Agreement and continuing for a period of two (2) years thereafter, Customer will not hire, engage on contract, solicit the employment of, or recommend employment to any third party of any employee of Motorola or its subcontractors without the prior written authorization of Motorola. This provision applies only to those employees of Motorola or its subcontractors who are responsible for rendering services under this Agreement. If this provision is found to be overly broad under applicable law, it shall be modified as necessary to conform to such law.

Section 16 MATERIALS, TOOLS AND EQUIPMENT

All tools, equipment, dies, gauges, models, drawings or other materials paid for or furnished by Motorola for the purpose of this Agreement will be and remain the sole property of Motorola. Customer will safeguard all such property while it is in Customer's custody or control, be liable for any loss or damage to this property, and return it to Motorola upon request. This property will be held by Customer for Motorola's use without charge and may be removed from Customer's premises by Motorola at any time without restriction.

Section 17 GENERAL TERMS

17.1. If any court renders any portion of this Agreement unenforceable, the remaining terms will continue in full force and effect.

17.2. This Agreement and the rights and duties of the parties will be governed and interpreted in accordance with the laws of the State of Texas.

17.3. Failure to exercise any right will not operate as a waiver of that right, power, or privilege.

17.4. Neither party is liable for delays or lack of performance resulting from any causes that are beyond that party's reasonable control, such as strikes, material shortages, or acts of God.

17.5. Motorola may assign its rights and obligations, and may subcontract any portion of its performance, under this Agreement.

17.6. If Motorola provides Services after the termination or expiration of this Agreement, the terms and conditions in effect at the time of the termination or expiration will apply to those Services and Customer agrees to pay for those services on a time and materials basis at Motorola's then effective hourly rates.

THE STATE OF TEXAS §
COUNTY OF WILLIAMSON §

COUNTY ADDENDUM FOR MOTOROLA SOLUTIONS SYSTEM PURCHASE AGREEMENT "In-Building Distributed Antenna System Expansion for Williamson County Sheriff's Office"

Important Notice: County Purchase Orders and Contracts constitute expenditures of public funds, and all vendors are hereby placed on notice that such procurement is subject to the extent authorized by Texas law, including but not limited to Tex. Const. art. XI, § 7, the Texas Government Code, the Texas Local Government Code, the Texas Transportation Code, the Texas Health & Safety Code, and Opinions of the Texas Attorney General relevant to local governmental entities.

THIS CONTRACT is made and entered into by and between **Williamson County, Texas** (hereinafter "Customer"), a political subdivision of the State of Texas, acting herein by and through its governing body, and Motorola Solutions Inc. (hereinafter "Motorola"). Customer agrees to engage Motorola as an independent contractor, to assist in providing certain operational services pursuant to the following terms, conditions, and restrictions:

I.

No Waiver of Sovereign Immunity or Powers: Nothing in this contract will be deemed to constitute a waiver of sovereign immunity or powers of Customer, the Williamson County Commissioners Court, or the Williamson County Judge.

II.

No Assignment: Motorola may not assign this contract, without express written consent of the Williamson County Commissioners Court.

III.

Compliance With All Laws: Motorola agrees and will comply with any and all applicable local, state or federal requirements with respect to the services rendered.

IV.

Good Faith: Motorola agrees to act in good faith in the performance of this contract.

V.

Payment: Payment for goods and services shall be governed by Chapter 2251 of the Texas Government Code. An invoice shall be deemed overdue the 31st day after the later of (1) the date The County receives the goods under the contract; (2) the date the performance of the service under the contract is completed; or (3) the date the Williamson County Auditor receives an invoice for the goods or services. Interest charges for any overdue payments shall be paid by The County in accordance with Texas Government Code Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of The County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one percent (1%); and (2) the prime rate published in the Wall Street Journal on the first day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

VI.

Right to Audit: Motorola agrees that Customer or its duly authorized representatives shall, until the expiration of three (3) years after final payment under this Contract, have access to and the right to examine and photocopy any and all books, documents, papers and records of Motorola which are directly pertinent to the services to be performed under this Contract for the purposes of making audits, examinations, excerpts, and transcriptions. Motorola agrees that Customer shall have access during normal working hours to all necessary Motorola facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. Customer shall give Motorola reasonable advance notice of intended audits.

VII.

Mediation: The parties agree to use mediation for dispute resolution prior to and formal legal action being taken on this Contract.

VIII.

County Judge or Presiding Officer Authorized to Sign Contract: The presiding officer of Customer's governing body who is authorized to execute this instrument by order duly recorded may execute this contract on behalf of Customer.

WITNESS the signatures of all parties in duplicate originals this the _____ day of _____, 2017.

WILLIAMSON COUNTY:	Motorola:
_____	_____
Authorized Signature	Authorized Signature

A CONTRACT BETWEEN
HOUSTON-GALVESTON AREA COUNCIL
Houston, Texas
AND
MOTOROLA SOLUTIONS, INC.
Farmers Branch, Texas

This Contract is made and entered into by the **Houston-Galveston Area Council of Governments,** hereinafter referred to as **H-GAC,** having its principal place of business at 3555 Timmons Lane, Suite 120, Houston, Texas 77027, AND, **Motorola Solutions, Inc.** hereinafter referred to as the **CONTRACTOR,** having its principal place of business at Park West C-2, 1507 LBJ Freeway, Farmers Branch, Texas 75234

ARTICLE 1: SCOPE OF SERVICES

The parties have entered into a **Radio Communication/Emergency Response & Mobile Interoperability Equipment** Contract to become effective as of May 1, 2015, and to continue through April 30, 2018 (the "**Contract**"), subject to extension upon mutual agreement of the **CONTRACTOR** and **H-GAC. H-GAC** enters into the Contract as Agent for participating governmental agencies, each hereinafter referred to as **END USER,** for the purchase of **Radio Communication/Emergency Response & Mobile Interoperability Equipment** offered by the **CONTRACTOR.** The **CONTRACTOR** agrees to sell **Radio Communication/Emergency Response & Mobile Interoperability Equipment** through the **H-GAC** Contract to **END USERS**.

ARTICLE 2: THE COMPLETE AGREEMENT

The Contract shall consist of the documents identified below in order of precedence:

1. The text of this Contract form, including but not limited to, Attachment A
2. General Terms and Conditions
3. Proposal Specifications No: **RA05-15**, including any relevant suffixes
4. **CONTRACTOR's** Response to Proposal No: **RA05-15**, including but not limited to, prices and options offered

All of which are either attached hereto or incorporated by reference and hereby made a part of this Contract, and shall constitute the complete agreement between the parties hereto. This Contract supersedes any and all oral or written agreements between the parties relating to matters herein. Except as otherwise provided herein, this Contract cannot be modified without the written consent of both parties.

ARTICLE 3: LEGAL AUTHORITY

CONTRACTOR and **H-GAC** warrant and represent to each other that they have adequate legal counsel and authority to enter into this Contract. The governing bodies, where applicable, have authorized the signatory officials to enter into this Contract and bind the parties to the terms of this Contract and any subsequent amendments thereto.

ARTICLE 4: APPLICABLE LAWS

The parties agree to conduct all activities under this Contract in accordance with all applicable rules, regulations, directives, issuances, ordinances, and laws in effect or promulgated during the term of this Contract.

ARTICLE 5: INDEPENDENT CONTRACTOR

The execution of this Contract and the rendering of services prescribed by this Contract do not change the independent status of **H-GAC** or **CONTRACTOR**. No provision of this Contract or act of **H-GAC** in performance of this Contract shall be construed as making **CONTRACTOR** the agent, servant or employee of **H-GAC**, the State of Texas or the United States Government. Employees of **CONTRACTOR** are subject to the exclusive control and supervision of **CONTRACTOR**. **CONTRACTOR** is solely responsible for employee payrolls and claims arising therefrom.

ARTICLE 6: END USER AGREEMENTS

H-GAC acknowledges that the **END USER** may choose to enter into an End User Agreement with the **CONTRACTOR** through this Contract and that the term of said Agreement may exceed the term of the **H-GAC** Contract. However this acknowledgement is not to be construed as **H-GAC's** endorsement or approval of the End User Agreement terms and conditions. **CONTRACTOR** agrees not to offer to, agree to or accept from **END USER** any terms or conditions that conflict with or contravene those in **CONTRACTOR's H-GAC** contract. Further, termination of this Contract for any reason shall not result in the termination of the underlying End User Agreements entered into between **CONTRACTOR** and any **END USER** which shall, in each instance, continue pursuant to their stated terms and duration. The only effect of termination of this Contract is that **CONTRACTOR** will no longer be able to enter into any new End User Agreements with **END USERS** pursuant to this Contract. Applicable **H-GAC** order processing charges will be due and payable to **H-GAC** on any End User

Agreements surviving termination of this Contract between **H-GAC** and **CONTRACTOR** .

ARTICLE 7: SUBCONTRACTS & ASSIGNMENTS

CONTRACTOR agrees not to subcontract, assign, transfer, convey, sublet or otherwise dispose of this Contract or any right, title, obligation or interest it may have therein to any third party without prior written notice to **H-GAC. H-GAC** reserves the right to accept or reject any such change **CONTRACTOR** shall continue to remain responsible for all performance under this Contract regardless of any subcontract or assignment **H-GAC** shall be liable solely to **CONTRACTOR** and not to any of its Subcontractors or Assignees.

ARTICLE 8: EXAMINATION AND RETENTION OF CONTRACTOR'S RECORDS

CONTRACTOR shall maintain during the course of its work, complete and accurate records of items that are chargeable to **END USER** under this Contract. **H-GAC**, through its staff or its designated public accounting firm, the State of Texas, or the United States Government shall have the right at any reasonable time to inspect copy and audit those records on or off the premises of **CONTRACTOR**. Failure to provide access to records may be cause for termination of this Contract **CONTRACTOR** shall maintain all records pertinent to this Contract for a period of not less than five (5) calendar years from the date of acceptance of the final contract closeout and until any outstanding litigation, audit or claim has been resolved. The right of access to records is not limited to the required retention period, but shall last as long as the records are retained. **CONTRACTOR** further agrees to include in all subcontracts under this Contract, a provision to the effect that the subcontractor agrees that **H-GAC'S** duly authorized representatives, shall, until the expiration of five (5) calendar years after final payment under the subcontract or until all audit findings have been resolved, have access to, and the right to examine and copy any directly pertinent books, documents, papers, invoices and records of such subcontractor involving any transaction relating to the subcontract. To the extent allowed by law, nothing contained herein shall authorize H-GAC and/or END USER to audit confidential information regarding product cost.

ARTICLE 9: REPORTING REQUIREMENTS

CONTRACTOR agrees to submit reports or other documentation in accordance with the General Terms and Conditions of the Proposal Specifications. If **CONTRACTOR** fails to submit to **H-GAC** in a timely and satisfactory manner any such report or documentation, or otherwise fails to satisfactorily render performance hereunder, such failure may be considered cause for termination of this Contract.

ARTICLE 10: MOST FAVORED CUSTOMER CLAUSE

If **CONTRACTOR** at any time during a contract period, routinely enters into agreements with other governmental customers within the State of Texas, and offers the same or substantially the same products offered to **H-GAC** on a basis that provides prices more favorable than those provided to **H-GAC**, **CONTRACTOR** shall within ten (10) business days thereafter notify **H-GAC** of that offering. The contract with **H-GAC** shall be deemed to be automatically amended and effective retroactively to the effective date of the most favorable contract, wherein **CONTRACTOR** shall provide the same quantity discount to **H-GAC** and its End Users for equal or larger orders purchased the same quantity and under the same circumstances **H-GAC** shall have the right and option at any time to decline to accept any such change, in which case the amendment shall be deemed null and void. If **CONTRACTOR** believes any apparently more favorable price charged and/or offered a customer during the term of this agreement is not in fact most favored treatment, **CONTRACTOR** shall within ten (10) business days notify **H-GAC** in writing, setting forth the detailed reasons **CONTRACTOR** believes aforesaid offer which has been deemed to be a most favored treatment, is not in fact most favored treatment. **H-GAC**, after due consideration of such written explanation, may decline to accept such explanation and thereupon the contract between **H-GAC** and **CONTRACTOR** shall be automatically amended, effective retroactively, to the effective date of the most favored agreement, to provide the same prices to **H-GAC**.

The most favored price structure set forth in this paragraph shall not apply to any pre-existing contracts Contractor has in the State of Texas. The term *"pre-existing contracts"* shall refer to contracts in existence as of the original effective date of the HGAC contract, i.e 5/1/15.

The Parties agree that the above MFC provision shall not apply to the sale of large communications systems (one million dollars ($1,000,000.00) and above). The term *"Communications System"* shall refer to a project that includes the sale of infrastructure hardware and/or software, user devices, and Motorola engineering and installation service. The contract for a "Communication System" will always have a Statement of Work and an Acceptance Test Plan.

The Parties accept the following definition of routine: *A prescribed, detailed course of action to be followed regularly; a standard procedure.*

ARTICLE 11: SEVERABILITY

All parties agree that should any provision of this Contract be determined to be invalid or unenforceable, such determination shall not affect any other term of this Contract, which shall continue in full force and effect.

ARTICLE 12: DISPUTES

Any and all disputes concerning questions of fact or of law arising under this Contract, which are not disposed of by agreement, shall be decided by the Executive Director of **H-GAC** or his designee, who shall reduce his decision to writing and provide notice thereof to **CONTRACTOR**. The decision of the Executive Director or his designee shall be final and conclusive unless, within thirty (30) days from the date of receipt of such notice, **CONTRACTOR** requests a rehearing from the Executive Director of **H-GAC**. In connection with any rehearing under this Article, **CONTRACTOR** shall be afforded an opportunity to be heard and offer evidence in support of its position. The decision of the Executive Director after any such rehearing shall be final and conclusive. **CONTRACTOR** may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a court of competent jurisdiction. Pending final decision of a dispute hereunder, **CONTRACTOR** shall proceed diligently with the performance of this Contract and in accordance with **H-GAC'S** final decision.

ARTICLE 13: LIMITATION OF CONTRACTOR'S LIABILITY

Except as specified in any separate writing between the **CONTRACTOR** and an **END USER, CONTRACTOR's** total liability under this Contract, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, but excluding its obligation to indemnify **H-GAC** described in Article 14, is limited to the price of the particular products/services sold hereunder, and **CONTRACTOR** agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. In no event will **CONTRACTOR** be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. **CONTRACTOR** understands and agrees that it shall be liable to repay and shall repay upon demand to **END USER** any amounts determined by **H-GAC**, its independent auditors, or any agency of State or Federal government to have been paid in violation of the terms of this Contract.

ARTICLE 14: LIMIT OF H-GAC'S LIABILITY AND INDEMNIFICATION OF H-GAC

H-GAC's liability under this Contract, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to its order processing charge. In no event will **H-GAC** be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor agrees, to the extent permitted by law, to defend and hold harmless **H-GAC**, its board members, officers, agents, officials, employees, and indemnities from any and all claims, costs, expenses (including reasonable attorney fees), actions, causes of action, judgments, and liens arising as a result of **CONTRACTOR's** negligent act or omission under this Contract. **CONTRACTOR** shall notify **H-GAC** of the threat of lawsuit or of any actual suit filed against **CONTRACTOR** relating to this Contract.

ARTICLE 15: TERMINATION FOR CAUSE

H-GAC may terminate this Contract for cause based upon the failure of **CONTRACTOR** to comply with the terms and/or conditions of the Contract; provided that **H-GAC** shall give **CONTRACTOR** written notice specifying **CONTRACTOR'S** failure. If within thirty (30) days after receipt of such notice, **CONTRACTOR** shall not have either corrected such failure, or thereafter proceeded diligently to complete such correction, then **H-GAC** may, at its option, place **CONTRACTOR** in default and the Contract shall terminate on the date specified in such notice. **CONTRACTOR** shall pay to **H-GAC** any order processing charges due from **CONTRACTOR** on that portion of the Contract actually performed by **CONTRACTOR** and for which compensation was received by **CONTRACTOR.**

ARTICLE 16: TERMINATION FOR CONVENIENCE

Either **H-GAC** or **CONTRACTOR** may cancel or terminate this Contract at any time by giving thirty (30) days written notice to the other. **CONTRACTOR** may be entitled to payment from **END USER** for services actually performed; to the extent said services are satisfactory to **END USER**. **CONTRACTOR** shall pay to **H-GAC** any order processing charges due from **CONTRACTOR** on that portion of the Contract actually performed by **CONTRACTOR** and for which compensation is received by **CONTRACTOR.**

ARTICLE 17: CIVIL AND CRIMINAL PROVISIONS AND SANCTIONS

CONTRACTOR agrees that it will perform under this Contract in conformance with safeguards against fraud and abuse as set forth by **H-GAC**, the State of Texas, and the acts and regulations of any funding entity. **CONTRACTOR** agrees to notify **H-GAC** of **any** suspected fraud, abuse or other criminal activity related to this Contract through filing of a written report promptly after it becomes aware of such activity.

ARTICLE 18: GOVERNING LAW & VENUE

This Contract shall be governed by the laws of the State of Texas. Venue and jurisdiction of any suit or cause of action arising under or in connection with this Contract shall lie exclusively in Harris County, Texas. Disputes between **END USER** and **CONTRACTOR** are to be resolved in accord with the law and venue rules of the state of purchase. **CONTRACTOR** shall immediately notify **H-GAC** of such disputes.

ARTICLE 19: PROCEDURAL STEPS ENUMERATED FOR SALES TO END USERS

1. All Cooperative Purchasing business will be processed in accordance with **H-GAC's** policies and procedures, at contracted prices, and shall include approved order processing charges.
2. **END USER** will access the Cooperative Purchasing Program through the **H-GAC** website and /or by submission of any duly

executed purchase order to a contractor having a valid contract with **H-GAC** and in a format acceptable to **H-GAC**.

3. **END USER** will submit order(s) electronically through **CONTRACTOR'S** on-line ordering process or issue Purchase Order(s) directly to **CONTRACTOR** at contract prices, and also submit a copy to **H-GAC**.
4. The **H-GAC CONTRACTOR** will deliver products/services as specified by the contract between **CONTRACTOR** and **H-GAC**, and invoice each **END USER** for (1) products/services purchased and **(2) H-GAC'S** applicable order processing charge.
5. Upon delivery, acceptance, and receipt of an **H-GAC CONTRACTOR's**,documented invoice, **END USER** shall pay the **H-GAC CONTRACTOR** the full amount of the invoice.
6. For orders of less than $100,000, **CONTRACTOR** will promptly pay to **H-GAC** any order processing charges due, and in Any case, not later than sixty (60) calendar days after End User order is processed. Payments will be processed to **H-GAC** on a monthly basis. For orders of $100,000 or more, **CONTRACTOR** will promptly pay to **H-GAC** any order processing charges due, and in any case not later than forty-five (45) calendar days after receipt of End User payment by **Motorola**
7. Failure to promptly remit **H-GAC's** order processing charges may result in sanctions including, but not limited to, contract termination
8. **CONTRACTOR** shall be responsible for delivery and acceptance of each unit by **END USER**, according to the requirements of the specifications, this Contract, and purchase order issued to **CONTRACTOR** by an **END USER.** All required equipment tests shall be borne by **CONTRACTOR.**
9. **CONTRACTOR** shall promptly provide **H-GAC** and **END USER** with all information pertaining to delivery schedules. **CONTRACTOR** shall also use its best efforts to expedite unit deliveries on shorter notice than set forth in its verification for any specific purchase order when requested.
10. All prices are F O B **END USER'S** location with all transportation charges prepaid and included in any invoice.
11. All pricing shall be based on the current contract unless the **H-GAC CONTRACTOR** prior to receipt of **END USER's** purchase order for delivery of any products/services has received **H-GAC's** prior written approval for any price increases.
12. The **H-GAC CONTRACTOR** agrees to accept the terms of this agreement and to conduct all transactions based on pricing and other terms of the contract including, but not limited to, the applicable **H-GAC** order processing charge. The **CONTRACTOR** agrees to encourage **END USERS** to execute authorizing Interlocal contracts with **H-GAC.**

ARTICLE 20: LIQUIDATED DAMAGES

Any liquidated damages terms will be determined between **CONTRACTOR** and **END USER** at the time **END USER's** purchase order is placed.

ARTICLE 21: PERFORMANCE BONDS FOR INDIVIDUAL ORDERS

Except as described below for fire apparatus, **CONTRACTOR** agrees to provide a Performance Bond at the request of **END USER** within ten (10) days of receipt of **END USER's** purchase order.

It shall be standard procedure for every order received for fire apparatus that a Performance Bond in the amount of the order be provided to the **END USER**. Failure of **CONTRACTOR** to provide such performance bond within ten (10) days of receipt of **END USER's** order may constitute a total breach of contract and shall be cause for cancellation of the order at **END USER's** sole discretion. **END USER** may choose to delete the requirement for a Performance Bond at **END USER's** sole discretion. If the bond requirement is waived, **END USER** shall be entitled to a price reduction commensurate with the cost that would have been incurred by **CONTRACTOR** for the bond.

ARTICLE 22: CHANGE OF CONTRACTOR STATUS

CONTRACTOR shall immediately notify **H-GAC**, in writing, of **ANY** change in ownership, control, dealership/franchisee status, Motor Vehicle license status, or name, and shall also advise whether or not this Contract shall be affected in any way by such change. **H-GAC** shall have the right to determine whether or not such change is acceptable, and to determine what action shall be warranted, up to and including cancellation of Contract.

ARTICLE 23: LICENSING REQUIRED BY TEXAS MOTOR VEHICLE BOARD *[IF APPLICABLE]*

CONTRACTOR will for the duration of this Contract maintain current licenses that are required by the Texas Motor Vehicle Commission Code. If at any time during this Contract period, any **CONTRACTOR'S** license is not renewed, or is denied or revoked, **CONTRACTOR shall** be deemed to be in default of this Contract unless the Motor Vehicle Board issues a stay or waiver. Contractor shall promptly provide copies of all current applicable Texas Motor Vehicle Board documentation to **H-GAC** upon request.

IN WITNESS WHEREOF, the parties have caused this Contract to be executed by their duly authorized representatives.

Signed for Houston-Galveston Area Council, Houston, Texas: _____
Jack Steele, Executive Director

Attest for Houston-Galveston Area Council, Houston, Texas: _____
Deidre Vick, Director of Public Services

Date: May 5, 2015

Signed for Motorola Solutions, Inc. Farmers Branch, Texas: _____

Printed Name & Title: Edward Fuerst MSSSI Vice President

Date: 4/30 2015

Attest for Motorola Solutions, Inc. Farmers Branch, Texas: _____

Printed Name & Title: Howard Chercoe MSSSI V.P.

Date: 4/30 2015

Attachment A

Motorola Solutions, Inc.

Radio Communication/Emergency Response & Mobile Interoperability Equipment

Contract No.: RA05-15

Product Category	Description	Base Offered Price
OA, OB, OC	***Per the RFP Motorola has included an Electronics Catalogue (ECAT disk) on a CD media in lieu of listing each individual product and its options. In addition, a discount APC sheet is attached in the pricing section and used to calculate all individual prices within the ECAT disk.***	See APC Discounts per ECAT Pricebook Effective 2/14/2015
OD	**Motorola Integration Services LMR**	
	Motorola offers wide range of services including Integration, Installation and Training. The cost of these services is regional in nature Samples below are listed for reference only	
OD	Project Management Daily Rate*	$ 1,818.00
OD	System Technologist Daily Rate*	$ 2,173.00
OD	Standard Shop Installation Hourly Rate*	$ 150.00
OD	Standard Shop Installation Daily Rate*	$ 1,200.00
OD	Mobile Radio Installation*	$180-$500
OD	Radio Programming*	$55-$125
OD	Data Installation*	$180-$428
	*Prices may vary by Region and Stated Scope. Travel Not Included	
OD	**Motorola Integration Services Advanced Services**	
	Motorola offers wide range of services including Integration, Installation and Training. The cost of these services is regional in nature Samples below are listed for reference only	
OD	NG9-1-1 Consolting Services-Daily Rate*	$1,694
OD	Security Project/Program Management-Daily Rate*	$1,694
OD	Wireless Security Technician-Daily Rate*	$1,580
OD	Security Penetration Tester (Wired Network)-Daily Rate*	$1,580
OD	Secutrity Trainer-Daily Rate*	$1,328
OD	Application Security Code Reviewer-Daily Rate*	$2,033
OD	IT Incident Response and E-Discovery Assitance-Daily Rate*	$1,694
OD	IT Disaster Recovery Planner-Daily Rate*	$1,580
OD	IT Disaster Recovery Plan Tester-Daily Rate*	$1,580
OD	Buisness Continuity/Continuity of Government Planner-Daily Rate*	$1,580
OD	Buisness Continuity/Continuity of Government Plan Tester-Daily Rate*	$1,580
OD	Mobile Application Services Project Management-Daily Rate*	$565
OD	Mobile Application Services Solution Architech-Daily Rate*	$2,033
OD	Mobile Application Services Application and Solution Design-Daily Rate*	$2,033
OD	Mobile Application Services Application and Solution Implementation-Daily Rate*	$2,033
OD	Application Integration and Customization Services Project Management-Daily Rate*	$1,694
OD	Application Integration and Customization Services Solution Architech-Daily Rate*	$2,033
OD	Application Integration and Customization Services Application and Solution Design-Daily Rate*	$2,033
OD	Application Integration and Customization Services Application and Solution Implementation-Daily Rate*	$1,694
OD	Unified Communications Services Project Management-Daily Rate*	$1,694
OD	Unified Communications Services Solution Architech-Daily Rate*	$2,033
OD	Unified Communications Services Application and Solution Design-Daily Rate*	$2,033
OD	Unified Communications Services Application and Solution Implementation-Daily Rate*	$1,694

OD	Consulting Services Project Management-Daily Rate*	$1,694
OD	Consulting Services System Engineer-Daily Rate*	$1,694
OD	Consulting Services Solution Architech-Daily Rate*	$2,033
OD	Consulting Services Internet Protocol Network Accessment-Daily Rate*	$2,033
OD	Consulting Servics IP Network Design and Integration-Daily Rate*	$2,033
OD	Consulting Services IP Wide Area Network Backhaul Design and Integration-Daily Rate*	$2,033
OD	Consulting Services Custoemr Network Interface Design and Integration-Daily Rate*	$2,033
APC DISCOUNTS PER ECAT PRICEBOOK		
001	Portable Radiophone (Portables)	20%
020	CAD Equipment	List
039	CAD Equipment	5%
068	CAD Equipment	10%
232	CAD Equipment	5%
297	CAD Equipment	5%
330	CAD Equipment	5%
333	CAD Equipment	10%
548	CAD Equipment	10%
702	CAD Equipment	List
850	CAD Equipment	List
879	CAD Equipment	List
981	CAD Equipment	List
040	Data Applications	15%
041	Data Applications	10%
041	Data Applications	10%
153	Data Applications	15%
343	Data Applications	10%
670	Data Applications	List
766	Data Applications	List
177	Data Subscriber Devices	15%
185	Data Subscriber Devices	List
736	Data Subscriber Devices	22%
855	Data Subscriber Devices	10%
006	Dispatch Service	5%
768	Dispatch Service	List
118	Dispatch Solutions	10%
124	Dispatch Solutions	15%
129	Dispatch Solutions	20%
147	Dispatch Solutions	10%
185	Dispatch Solutions	List
202	Dispatch Solutions	15%
207	Dispatch Solutions	10%
226	Dispatch Solutions	15%
228	Dispatch Solutions	30%
229	Dispatch Solutions	13.50%
261	Dispatch Solutions	5%
322	Dispatch Solutions	15%
404	Dispatch Solutions	20%
415	Dispatch Solutions	10%
443	Dispatch Solutions	20%
454	Dispatch Solutions	15%
520	Dispatch Solutions	10%
524	Dispatch Solutions	10%
660	Dispatch Solutions	10%
706	Dispatch Solutions	20%
708	Dispatch Solutions	17%
729	Dispatch Solutions	17%

740	Dispatch Solutions	15%
892	Dispatch Solutions	10%
214	Fixed Data Products	10%
275	Fixed Data Products	10%
342	Fixed Data Products	10%
382	Fixed Data Products	10%
403	Fixed Data Products	15%
455	Fixed Data Products	15%
469	Fixed Data Products	10%
499	Fixed Data Products	10%
708	Fixed Data Products	17%
222	Fixed Network Equipment	15%
329	Fixed Network Equipment	10%
381	Fixed Network Equipment	15%
207	Fixed Station Accessories	10%
273	Fixed Station Accessories	10%
277	Fixed Station Accessories	20%
457	Fixed Station Accessories	20%
515	Fixed Station Accessories	20%
524	Fixed Station Accessories	15%
525	Fixed Station Accessories	15%
856	Fixed Station Accessories	10%
207	Fixed Station Antenna Systems	10%
005	Fixed Stations	20%
112	Fixed Stations	18%
225	Fixed Stations	10%
281	Fixed Stations	18.50%
301	Fixed Stations	20%
360	Fixed Stations	21.50%
377	Fixed Stations	17%
417	Fixed Stations	10%
424	Fixed Stations	15%
425	Fixed Stations	15%
448	Fixed Stations	20%
474	Fixed Stations	23%
509	Fixed Stations	21.50%
512	Fixed Stations	23%
537	Fixed Stations	21.50%
590	Fixed Stations	21.50%
595	Fixed Stations	18%
643	Fixed Stations	15%
675	Fixed Stations	20%
680	Fixed Stations	21.50%
744	Fixed Stations	20%
811	Fixed Stations	5%
881	Fixed Stations	15%
015	Fixed Wireless Broadband	20%
075	Fixed Wireless Broadband	List
224	Fixed Wireless Broadband	15%
800	Fixed Wireless Broadband	List
832	Fixed Wireless Broadband	10%
882	Fixed Wireless Broadband	15%
904	Fixed Wireless Broadband	15%
906	Fixed Wireless Broadband	15%
910	Fixed Wireless Broadband	15%
947	Fixed Wireless Broadband	15%
901	Lifecycle Services	List
902	Lifecycle Services	List
903	Lifecycle Services	List

904	Lifecycle Services	List
905	Lifecycle Services	List
051	LTE	10%
052	LTE	10%
053	LTE	10%
054	LTE	10%
055	LTE	10%
056	LTE	10%
057	LTE	10%
058	LTE	5%
059	LTE	10%
061	LTE	10%
063	LTE	10%
065	LTE	10%
066	LTE	10%
375	LTE	List
708	LTE	17%
984	LTE	List
985	LTE	List
989	LTE	List
823	Maintenance	List
983	Maintenance	List
554	Mobile Accessories	15%
644	Mobile Accessories	15%
879	Mobile Applications Software	10%
038	Mobile Stations	10%
103	Mobile Stations	26.50%
109	Mobile Stations	26.50%
159	Mobile Stations	20%
189	Mobile Stations	15%
276	Mobile Stations	25%
287	Mobile Stations	10%
374	Mobile Stations	15%
426	Mobile Stations	25%
471	Mobile Stations	25%
484	Mobile Stations	10%
500	Mobile Stations	25%
514	Mobile Stations	25%
518	Mobile Stations	25%
527	Mobile Stations	25%
571	Mobile Stations	15%
585	Mobile Stations	25%
652	Mobile Stations	25%
655	Mobile Stations	25%
656	Mobile Stations	25%
761	Mobile Stations	25%
775	Mobile Stations	16.50%
776	Mobile Stations	20%
792	Mobile Stations	20%
869	Mobile Stations	20%
922	Mobile Stations	20%
422	MOTOTRBO	10%
475	MOTOTRBO	10%
516	MOTOTRBO	10%
557	MOTOTRBO	10%
563	MOTOTRBO	10%
777	MOTOTRBO	10%
131	Network Products	10%
147	Network Products	10%

207	Network Products	10%
232	Network Products	10%
708	Network Products	17%
136	Pagers/Receiver	15%
169	Pagers/Receiver	20%
452	Pagers/Receiver	15%
361	Paging/Reclevers	15.00%
839	Paging/Reclevers	15%
940	Paging/Reclevers	15%
941	Paging/Reclevers	15%
004	Portable Radiophone (Portables)	20%
008	Portable Radiophone (Portables)	20%
018	Portable Radiophone (Portables)	List
019	Portable Radiophone (Portables)	List
027	Portable Radiophone (Portables)	List
037	Portable Radiophone (Portables)	10%
087	Portable Radiophone (Portables)	10%
158	Portable Radiophone (Portables)	20%
185	Portable Radiophone (Portables)	List
187	Portable Radiophone (Portables)	15%
205	Portable Radiophone (Portables)	25%
271	Portable Radiophone (Portables)	25%
291	Portable Radiophone (Portables) .	25%
320	Portable Radiophone (Portables)	25%
332	Portable Radiophone (Portables)	20%
362	Portable Radiophone (Portables)	20%
372	Portable Radiophone (Portables)	20%
402	Portable Radiophone (Portables)	20%
407	Portable Radiophone (Portables)	25%
414	Portable Radiophone (Portables)	20%
426	Portable Radiophone (Portables)	25%
430	Portable Radiophone (Portables)	20%
442	Portable Radiophone (Portables)	20%
453	Portable Radiophone (Portables)	20%
456	Portable Radiophone (Portables)	20%
458	Portable Radiophone (Portables)	20%
470	Portable Radiophone (Portables)	25%
476	Portable Radiophone (Portables)	20%
481	Portable Radiophone (Portables)	25%
483	Portable Radiophone (Portables)	25%
505	Portable Radiophone (Portables)	20%
527	Portable Radiophone (Portables)	25%
536	Portable Radiophone (Portables)	25%
562	Portable Radiophone (Portables)	25%
570	Portable Radiophone (Portables)	10%
577	Portable Radiophone (Portables)	20%
619	Portable Radiophone (Portables)	15%
626	Portable Radiophone (Portables)	20%
654	Portable Radiophone (Portables)	List
655	Portable Radiophone (Portables)	25%
656	Portable Radiophone (Portables)	25%
672	Portable Radiophone (Portables)	33.50%
687	Portable Radiophone (Portables)	20%
721	Portable Radiophone (Portables)	25%
726	Portable Radiophone (Portables)	25%
742	Portable Radiophone (Portables)	25%
749	Portable Radiophone (Portables)	33.50%
755	Portable Radiophone (Portables)	25.00%
756	Portable Radiophone (Portables)	25.00%

785	Portable Radiophone (Portables)	25%
795	Portable Radiophone (Portables)	25%
798	Portable Radiophone (Portables)	25%
837	Portable Radiophone (Portables)	25%
841	Portable Radiophone (Portables)	33.50%
883	Portable Radiophone (Portables)	15%
977	Portable Radiophone (Portables)	10%
390	Professional Services	List
659	Professional Services	List
659	Professional Services	List
670	Professional Services	List
842	Professional Services	List
509	Receivers	21.50%
512	Receivers	23%
743	Receivers	15%
608	Records Management Software	10%
279	Records Management Software	List
137	Secure Solutions	5%
201	Secure Solutions	10%
229	Secure Solutions	14%
462	Secure Solutions	10%
524	Secure Solutions	15%
525	Secure Solutions	15%
519	Security	List
519	Security	List
561	Service/Maintenance	List
769	Service/Maintenance	List
769	Service/Maintenance	List
772	Service/Maintenance	List
929	Service/Maintenance	List
293	Service/Maintenance	List
195	Software Upgrades/Flashport	List
371	Software Upgrades/Flashport	List
430	Software Upgrades/Flashport	20%
262	Test Equipment	20%
854	Test Equipment	List
293	Training-Professional Services	List
039	Trunking Products and Systems	5%
85	Trunking Products and Systems	15%
112	Trunking Products and Systems	18%
115	Trunking Products and Systems	10%
277	Trunking Products and Systems	20%
280	Trunking Products and Systems	18.50%
281	Trunking Products and Systems	18.50%
377	Trunking Products and Systems	17%
495	Trunking Products and Systems	15%
593	Trunking Products and Systems	23%
708	Trunking Products and Systems	17%
877	Trunking Products and Systems	18.50%
002	Video Solutions	10%
080	Video Solutions	10%
488	Video Solutions	10%
964	Warranty	List
606	Wireless Mobility	15%
832	Wireless Mobility	10%
907	Wireless Mobility	15%
908	Wireless Mobility	15%

Commissioners Court - Regular Session **38.**

Meeting Date: 10/17/2017

Pharmaceutical Service and Supplies RFP 1708 185

Submitted By: Brenda Fuller, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on awarding the proposal received for RFP # 1708-185 Pharmaceutical Service and Supplies for Williamson County Jail to Westwood Pharmacy.

Background

Six (6) proposals were received through the County's online bidding site (Bid Sync) and after the evaluation process, the evaluation committee is recommending award to Westwood Pharmacy. The department recommendation letter, evaluation scoring sheet, price compilation and tabulation packet are attached. Award is for one (1) year with two (2) optional annual renewals if approved by Commissioners Court.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Recommendation letter

Evaluation Score Sheet

Tabulation Packet

Price Compilation Sheet

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	10/11/2017 11:04 AM
County Judge Exec Asst.	Wendy Coco	10/11/2017 11:22 AM
Form Started By: Brenda Fuller		Started On: 10/06/2017 02:28 PM
Final Approval Date: 10/11/2017		

Williamson County Sheriff's Office
Jail Medical Department

Pharmacy Bid **10/5/2017**

The Williamson County Jail Medical Department has performed a thorough review of the Six (6) pharmacy bids submitted for RFP in Oct 2017.

Three principle areas of review were performed:

1. **Overall pricing and cost of the product.**
2. **Specification requirements.**
3. **References and experience in corrections.**

Specification requirements were met and essentially the same across the board for all vendors and all were scored accordingly. References were reviewed and assigned scores based on *relevant* correctional referencing. Cost was very important and this can be seen as the major deciding factor in this case.

The selected approved bid winner is Westwood Pharmacy. Westwood Pharmacy has incumbent status and has performed in an outstanding manner for the last twelve years. They meet or exceed the required state and federal regulations required for serving in the jail capacity as the primary pharmacy. The stated prices on pharmaceuticals was significantly more cost efficient than even the closest competitor. Overall the process was made significantly easier because of the extreme difference in cost and the already excellent working relationship with the incumbent.

Douglas Wheless
Medical Supervisor
Williamson County Jail

Evaluation Criteria for Pharmaceutical Service and Supplies RFP 1708-185

Evaluation Matrix	Maximum Score Points	Biocare	New Dimension	Diamond Drugs	MAO Pharmacy (Westwood)	Pharmacy Alternatives	Correct RX Pharmacy Services
Pricing (per formula low bid divided by bid x points) minus discount price + dispensing fee	40	2.08	1.78	4.12	40	1.74	5.91
Specification Requirements	30	30	30	30	30	30	30
References plus Vendor Experience with Correctional Facilities	30	15	25	15	30	25	25
TOTAL	100	47.08	56.78	49.12	100	56.74	60.91

Bid Tabulation Packet
for
Solicitation 1708-185

Pharmaceutical Service and Supplies

Bid Designation: Public

Williamson County, Texas

Bid #1708-185 - Pharmaceutical Service and Supplies

Creation Date	**Aug 15, 2017**	End Date	**Sep 18, 2017 2:00:00 PM CDT**
Start Date	**Aug 29, 2017 3:22:02 PM CDT**	Awarded Date	**Not Yet Awarded**

1708-185--01-01 Please attach all documents to this line

Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
BIOCARE PHARMACY **[Ad]**	First Offer -	1 / each			Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**			
Diamond Drugs, Inc. **[Ad]**	First Offer -	1 / each		Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**			
Pharmacy Alternatives, LLC	First Offer -	1 / each		Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**			
NEW DIMENSION PHARMACY **[Ad]**	First Offer -	1 / each		Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**			
MAO Pharmacy	First Offer -	1 / each		Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** RFP 1708-185 **Supplier Notes:**			
Correct Rx Pharmacy Services, Inc. **[Ad]**	First Offer -	1 / each		Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**			

Supplier Totals

f BIOCARE PHARMACY **[Ad]** $0.00

Bid Contact **ANNIE TRUONG**
BIOCARERX@YAHOO.COM
Ph 281-530-5800
Fax 281-530-5819

Address **HOUSTON, TX 77072**

Bid Notes **All prices are in USD and include shipping costs. Price is per capsule/tablet/mL/gram. Please let us know if you have any questions.**

Agency Notes:

Supplier Notes:
All prices are in USD and include shipping costs. Price is per capsule/tablet/mL/gram. Please let us know if you have any questions.

Head Attch:

f NEW DIMENSION PHARMACY **[Ad]** $0.00

Bid Contact **CARLOS HEATH**
newdimensionpharmacy@yahoo.com
Ph 713-263-7680

Address **1102 PINEMONT STE.F**
Houston, TX 77018

Bid Notes **The following attachment contains our bid for Pharmaceutical services and supplies for Williamson County.**

Agency Notes:

Supplier Notes:
The following attachment contains our bid for Pharmaceutical services and supplies for Williamson County.

Head Attch:

f Diamond Drugs, Inc. **[Ad]** $0.00

Bid Contact **Steven M Heidenthal**

Address **645 Kolter Drive**

proposal@diamondpharmacy.com
Ph 724-349-1111
Fax 724-599-3509
Indiana, PA 15701

Agency Notes:

Supplier Notes:

Head Attch:

f MAO Pharmacy $0.00

Bid Contact **hunter hoggatt**
hunter.hoggatt@westwoodpharmacy.com
Ph 804-519-3383
Fax 804-288-7934

Address **5823 patterson ave**
richmond, VA 23226

Bid Notes **All requested information has been submitted via BidSync documents or included in the PDF attachment titled "Westwood Pharmacy Response to RFP 1708-185" which is attached here. Thank you for your consideration.**

Agency Notes:

Supplier Notes:
All requested information has been submitted via BidSync documents or included in the PDF attachment titled "Westwood Pharmacy Response to RFP 1708-185" which is attached here. Thank you for your consideration.

Head Attch:

f Correct Rx Pharmacy Services, Inc. **[Ad]** $0.00

Bid Contact **Ellen H Yankellow**
eyankellow@correctrxpharmacy.com
Ph 443-557-0100
Fax 443-557-0333

Address **1352 Charwood Road, Suite C**
Hanover, MD 21076

Agency Notes:

Supplier Notes:

Head Attch:

f Pharmacy Alternatives, LLC $0.00

Bid Contact **Doug Russell**
marion.akers@rescare.com
Ph 502-394-2100

Address **11401 Bluegrass Parkway**
LOUISVILLE, KY 40299

Agency Notes:

Supplier Notes:

Head Attch:

**

BIOCARE PHARMACY

Bid Contact **ANNIE TRUONG**
BIOCARERX@YAHOO.COM
Ph 281-530-5800
Fax 281-530-5819

Address **HOUSTON, TX 77072**

Bid Notes **All prices are in USD and include shipping costs. Price is per capsule/tablet/mL/gram. Please let us know if you have any questions.**

Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch.	Docs
1708-185--01-01	Please attach all documents to this line	**Supplier Product Code:**	**First Offer -**	1 / each		**Y**
				Supplier Total	$0.00	

Supplier: **BIOCARE PHARMACY**

Williamson County – Request for Proposal (RFP)

SECTION 1 - DEFINITIONS

Addendum/Addenda – means any written or graphic instruments issued by the County prior to the consideration of Proposals which modify or interpret the Proposal Documents by additions, deletions, clarifications, or corrections.

Agreement/Ensuing Agreement(s) – means the Successful Respondent may be required by the County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and the Respondent's Proposal. Such Ensuing Agreement(s) shall contain the Proposal specifications, terms and conditions that are derived from the RFP.

Contract – means this RFP and the Proposal of the Successful Respondent shall become a Contract between the Successful Respondent and the County once the Successful Respondent's Proposal is properly accepted by the Williamson County Commissioners Court (sometimes referred to herein as the Commissioner's Court").

Commissioner's Court – means the Williamson County Commissioners Court.

County – means Williamson County, a political subdivision of the State of Texas.

Executive Summary – means the document submitted by Respondent that represents a concise summary of the contents of the Proposal. It does not include any information concerning costs.

Proposal Documents – means the Legal Notice, RFP including attachments, and any Addenda issued by the County prior to the consideration of any Proposals.

Proposal – means the complete, properly signed document, and ALL required forms and documentation listed in the proposal package which have been submitted in accordance with this RFP package. A Proposal submitted in accordance with this RFP is irrevocable during the specified time period for evaluation and acceptance of Proposals, unless a waiver is obtained from the Williamson County Purchasing Agent.

Respondent – means a person or entity who submits a Proposal in response to this RFP.

Request for Proposals (RFP) – means this document, together with the attachments thereto and any future Addenda issued by the County.

Successful Respondent– means the responsible Respondent who, in the County's sole opinion, submits the Proposal which is in the best interest of the County, taking into account factors identified

herein, and to whom the County intends to award the Contract.

SECTION 2 - RESPONSE FORMAT AND SUBMISSION

2.1 INTRODUCTION

Each Proposal submitted in response to this RFP should clearly reference the numbered sections of this RFP that require a response. Failure to arrange the Proposal as requested may result in the disqualification of the Proposal.

Though there is not a page limit for Proposals, to save natural resources including paper, and to allow the County staff to efficiently evaluate all submitted Proposals, the County requests that Proposals be orderly, concise, but comprehensive in providing the requested information. Conciseness and clarity of content are emphasized and encouraged. If mailed or delivered in person, please limit additional, non requested information.

Please provide your Proposal response using:

A. 8 ½" x 11" pages, inclusive of any cover letter or supporting materials.

B. The least amount of plastic/laminate or other non-recyclable binding materials.

C. Single-sided printing.

Vague and general Proposals will be considered non-responsive, and may, at the County's sole discretion, result in disqualification. Proposals must be legible and complete. Failure to provide the required information may result in the disqualification of the Proposal. All pages of the Proposal should be numbered and the Proposal should contain an organized, paginated table of contents corresponding to the sections and pages of the Proposal.

2.2 ORGANIZATION OF PROPOSAL CONTENTS AND TABLE OF CONTENTS

Each Proposal should be submitted with a table of contents that clearly identifies and denotes the location of all enclosures of the Proposal. The table of contents should follow the RFP's structure as much as is practical.

Each Proposal should be organized in the manner described below:

A. Transmittal Letter. Please see Section 2.3, Transmittal Letter, for more information.

B. Table of Contents.

C. Executive Summary. Please see Section 2.4, Executive Summary.

D. Proposal Response to Criteria. (Please see the sections in this RFP package that list the Specifications & Cost Proposal, Experience and Qualifications, References, and Implementation Strategy to respond to our criteria in a clear and concise manner)

E. Price Sheet.

F. References: Identification of three (3) references within the last four (4) years, for which the Respondent is providing, or has provided, the goods and/or services (public sector) of the type requested in this RFP. Include the name, position/title, and telephone number of a contact person at each entity.

G. Conflict of Interest Questionnaire.

H. Proposal Affidavit (Signature Page).

I. Attach your entities sample Contract, if applicable, for the County's review and consideration. This should include any additional terms or conditions. The County is not required to use the sample Contract submitted.

2.3 TRANSMITTAL LETTER

The Respondent should submit a Transmittal Letter that provides the following information:

A. Name and address of individual or business entity submitting the Proposal.

B. Respondent's type of business entity (i.e., Corporation, General Partnership, Limited Partnership, LLC, etc.). See Section 3.5, Signature of Respondent, for more information.

C. Place of incorporation or organization, if applicable.

D. Name and location of major offices and other facilities that relate to the Respondent performance under the terms of this RFP.

E. Name, physical address, email address, business and fax number of the Respondent's principal contact person regarding all contractual matters relating to this RFP.

F. The Respondent's Federal Employer Identification Number.

G. A commitment by the Respondent to provide the services required by the County;

H. A statement that the Proposal is valid for the time specified on page three (3), under the section named *Prices Good for*, of this Proposal packet. Any Proposal containing a term of less than t required amount, may at the County's sole discretion, be rejected as non-responsive.

I. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.40, Air Quality for more information.

The Transmittal Letter should be signed by a person legally authorized to bind the Respondent to t representations in the Transmittal Letter and the Proposal. In the case of a joint Proposal, each party must sign the Transmittal Letter.

2.4 EXECUTIVE SUMMARY

The Respondent should provide an Executive Summary of its Proposal that asserts that the Respondent is providing in its response all of the requirements of this RFP. The Executive Summary should not include any information concerning the cost of the Proposal, but instead must represent a full and concise summary of the contents of the Proposal. It is recommended the Executive Summary include the following information:

A. Identify any goods and/or services that are provided beyond those specifically requested. If the Respondent is providing services and/or goods that do not meet the specific requirements of this RFP, but in the opinion of the Respondent are equivalent or superior to those specifically requested, any such differences should be noted in the Executive Summary. However, the Respondent must realize that failure to provide the goods and/or services specifically required, at the County's sole discretion, may result in disqualification of the Proposal.

B. Indicate why the Respondent believes that it is the most qualified Respondent to provide the services described in this RFP. The Successful Respondent must demonstrate extensive experience and understanding of the intent of this project. The Respondent should describe in detail the current and historical experience the Respondent and its subcontractors have that would be relevant to completing the project. References must contain the name of key personnel and telephone numbers for each contact, as described in Section 3.14, References.

C. Briefly state why the Respondent believes its proposed goods and/or services best meet the County's needs and RFP requirements, and the Respondent also should concisely describe any additional features, aspects, or advantages of its goods and/or services in any relevant area not covered elsewhere in its Proposal.

2.5 CONFLICT OF INTEREST

No public official shall have interest in a contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code, Title 5, Subtitle C, Chapter 171, as amended.

As of January 1, 2006, all Respondents are responsible for complying with Local Government Code, Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County's website at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en-US/Default.aspx

Each Respondent must disclose any existing or potential conflict of interest relative to the performance of the requirements of this RFP. **Examples of potential conflicts of interest may include an existing business or personal relationship between the Respondent, its principal, or any affiliate or subcontractor with the County or any other entity or person involved in any way with the project that is subject to this RFP**. Similarly, any personal or business relationship between the Respondent, the principals, or any affiliate or subcontractor with any employee, or official of the County or its suppliers must be disclosed. Any such relationship that might be perceived or represented as a conflict must be disclosed. Failure to disclose any such relationship or reveal personal relationships with the County employees or officials may be cause for termination.

The County will decide if an actual or perceived conflict should result in Proposal disqualification.

By submitting a Proposal in response to this RFP, all Respondents affirm they have not given, nor intend to give, at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a the County public servant or any employee, official or representative of same, in connection with this procurement.

Each Respondent must provide a Conflict of Interest Statement with their Proposal Package. Package may be deemed incomplete without this form.

2.6 CERTIFICATE OF INTERESTED PARTIES – FORM 1295

As of January 1, 2016, all Respondents are responsible for complying with the Texas Government Code, Section 2252.908. The law states that the County may not enter into certain contracts with a Respondent unless the Respondent submits a disclosure of interested parties to the County at the time the Respondent submits the signed contract. The law applies only to a contract of the County on or after January 1, 2016 that either:

A. Requires an action or vote by the Commissioners Court before the contract may be signed (all contracts that fall under the jurisdiction of the Commissioners Court approval, such as contracts resulting from an Initiation for Bid (IFB), RFP, Request for Qualifications (RFQ), etc., excluding,

but not limited to, certain Juvenile Service contracts, contracts funded with Sheriff's seized fun monies, etc.); or

B. Has a value of at least $1,000,000.

By January 1, 2016, the Texas Ethics Commission will make available on its website, a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

A Respondent must:

A. Use the online application to process the required information on Form 1295.

B. Print a copy of the form which will contain a unique certification number.

C. An authorized agent of the Respondent must sign the printed copy of the form.

D. Have the form notarized.

E. File the completed Form 1295 and certification of filing (scanning and emailing form is sufficient) with Williamson County Purchasing Agent at the time the signed Contract is submitted for approval.

After the Commissioners Court award of the contract, the County shall notify the Texas Ethics Commission, using the Texas Ethics Commission's filing application, of the receipt of the filed Form 1295 and certification of filing not later than the 30th day after the date the contract binds all parties to the contract. The Texas Ethics Commission will post the completed Form 1295 to its website within seven business days after receiving notice from the County.

2.7 PROPOSAL SUBMITTAL DEADLINE

The Proposal is due no later than the submittal date and time set forth in the Public Announcement and General Information listed in this RFP package. Contents of each Proposal shall be submitted in accordance with this RFP.

2.8 ETHICS

The Respondent shall not accept or offer gifts or anything of value, nor enter into any business arrangement with any employee, official or agent of the County.

2.9 DELIVERY OF PROPOSALS

The County uses BidSync to distribute and receive bids and Proposals. It is preferred that Proposals be submitted electronically through BidSync; however, Respondents can submit a hard copy.

Refer to www.bidsync.com for further information on how to submit electronically.

If mailed or delivered in person, Proposal and Proposal Addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed in this RFP package, to:

Williamson County Purchasing Department

Attn: **Proposal Name and Number**
901 South Austin Avenue
Georgetown, Texas 78626

Also, all Respondents should list their Name and Address, and the Date of the Proposal opening on the outside of the box or envelope and note "Sealed Proposal Enclosed." Williamson County will not accept any Proposals after the submittal deadline, and shall return such Proposals unopened to the Respondent. The County will not accept any responsibility for Proposals being delivered by third party carriers.

Proposals will be opened publicly; however, in a manner to avoid public disclosure of contents, only names of Respondents will be read aloud: no pricing will be announced at the opening.

SECTION 3 - INSTRUCTIONS AND GENERAL REQUIREMENTS

3.1 INSTRUCTIONS

Read this document carefully, and follow all instructions and requirements. All Respondents are responsible for fulfilling all requirements and specifications. Be sure to have a clear understanding of this RFP.

General requirements apply to all advertised RFPs; however, these may be superseded, in whole or in part, by the proposal specifications, Addenda and modifications issued as a part of this RFP. Be sure your Proposal package is complete.

3.2 AMBIGUITY, CONFLICT, OR OTHER ERRORS IN THIS RFP

If a Respondent discovers any ambiguity, conflict, discrepancy, omission or other error in this RFP, the Respondent shall immediately notify the County Purchasing Department of such error in writing and request modification or clarification of the document.

Modifications will be made by issuing Addenda. If the Respondent fails to notify the County prior to the date and time fixed for submission of Proposals of an error or ambiguity in the RFP known to the Respondent, or an error or ambiguity that reasonably should have been known to the Respondent, then the Respondent shall be deemed to have waived the error or ambiguity or its later resolution.

The County may also modify the RFP, no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals, by issuance of an Addendum. All Addenda will be numbered consecutively, beginning with one (1).

3.3 NOTIFICATION OF MOST CURRENT ADDRESS

All Respondents in receipt of this RFP shall notify the Williamson County Purchasing Department of any address changes, contact person changes, and/or telephone number changes no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals.

3.4 SIGNATURE OF RESPONDENT

A Transmittal Letter, which shall be considered an integral part of the Proposal as stated in Section 2.3, Transmittal Letter, shall be signed by an individual who is authorized to bind the Respondent contractually.

A. If the Respondent is a Corporation or Limited Liability Company, the legal name of the Corporation or Limited Liability Company shall be provided together with the signature of the officer or officers authorized to sign on behalf of such entity.

B. If the Respondent is a General Partnership, the true name of the firm shall be provided with the signature of each partner authorized to sign.

C. If the Respondent is a Limited Partnership, the name of the Limited Partner's General Partner shall be provided with the signature of the officer authorized to sign on behalf of the General Partner.

D. If the Respondent is a Sole Proprietor(s) (individual), each Sole Proprietor(s) shall sign.

E. If signature is by an agent, other than the Sole Proprietor(s) or an officer of a Corporation, Limited

Liability Company, General Partner or a member of a General Partnership, a power of attorney equivalent document must be submitted to the Williamson County Purchasing Department.

3.5 ASSUMED BUSINESS NAME

If the Respondent operates business under an Assumed Business Name, the Respondent must have file with the Williamson County Clerk a current Assumed Name Certificate and provide a file marked copy of same prior to contract award.

3.6 ECONOMY OF PRESENTATION

Proposals should not contain promotional or display materials, except as they may directly answer in whole or in part questions contained in the RFP. Such exhibits shall be clearly marked with the applicable reference number of the question in the RFP. Proposals must address the technical requirements as specified in the RFP. All questions posed by the RFP must be answered concisely and clearly. Proposals that do not address each criterion may be, at the sole discretion of the County, rejected and not considered.

3.7 PROPOSAL OBLIGATION

The contents of the RFP, Proposal, and any clarification thereof submitted by the Successful Respondent shall become part of the contractual obligation and incorporated by reference into the Contract and any Ensuing Agreement(s).

3.8 COMPLIANCE WITH RFP SPECIFICATIONS

It is intended that this RFP describe the requirements and the Proposal format in sufficient detail to secure comparable Proposal. Failure to comply with all provisions of the RFP may, at the sole discretion of the County, result in disqualification.

3.9 EVALUATION

The County reserves the right to use all pertinent information (also learned from sources other than disclosed in the RFP process) that might affect the County's judgment as to the appropriateness of award to the best evaluated Respondent. This information may be appended to the Proposal evaluation process results. Information on a Respondent from reliable sources, and not within the Respondent Proposal, may also be noted and made part of the evaluation file. The County shall have sole discretion for determining the reliability of the source. The County reserves the right to conduct written and/or oral discussions/interviews after the Proposal opening. The purpose of such discussions/interviews is to provide clarification and/or additional information to make an award that is in the best interest of the County.

3.10 WITHDRAWAL OF PROPOSAL

The Respondent may withdraw its Proposal by submitting a written request with the company letterhead and the signature of an authorized individual, as described in Section 3.4, Signature of Respondent, to the Williamson County Purchasing Department any time prior to the submission deadline.

The Respondent may submit a new Proposal prior to the deadline. Alterations of the Proposal in any manner will not be considered if submitted after the deadline. Withdrawal of a Proposal after the deadline will be subject to written approval of the Williamson County Purchasing Agent.

3.11 RESPONSIBILITY

It is expected that a Respondent will be able to affirmatively demonstrate responsibility. A prospective Respondent should be able to meet the following requirements:

A. Have adequate financial resources, or the ability to obtain such resources as required;
B. Be able to comply with the required or proposed delivery schedule;
C. Have a satisfactory record of performance that can be determined thru references provided; and
D. Be otherwise qualified and eligible to receive an award.

The County may request representation and other information sufficient to determine the Respondent ability to meet these minimum standards listed above.

3.12 PURCHASE ORDERS

If required by the Williamson County Purchasing Department, a purchase order(s) may be generated to the Successful Respondent for goods and/or services. If a purchase order is issued, the purchase order number must appear on all itemized invoices and/or requests for payment.

3.13 SILENCE OF SPECIFICATIONS

The apparent silence of any RFP specifications as to any detail or to the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

3.14 REFERENCES

Respondents shall furnish a list of contracts where similar responsibilities and goods and/or services have been required and/or performed for the past five (5) years, to include names, titles, phone numbers and email addresses of reference contacts, contract numbers and dates of performance.

Also, Respondents shall include a list of any contracts that have been cancelled or terminated within the last five (5) years, along with an explanation of the cancellation and the names, email address and phone number of a reference person with that institution.

The County may contact some or all of the references in order to determine the Respondent performance record on work similar to that described in this RFP. The County reserves the right to contact references other than those provided in the response and to use the information gained from them in the evaluation process.

References should be provided in accordance with this RFP. Proposal may not be deemed complete without the inclusion of requested references.

SECTION 4 - TERMS AND CONDITIONS

4.1 VENUE AND GOVERNING LAW

The Respondent hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this RFP, the Contract and any Ensuing Agreement(s), shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this RFP, the Contract and any Ensuing Agreement(s) is governed by the laws of the United States, this RFP, the Contract and any Ensuing Agreement(s) shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

4.2 INCORPORATION BY REFERENCE AND PRECEDENCE

A. The Contract shall be derived from the RFP and its Addenda (if applicable), and the Respondent Proposal. In the event of a dispute under the Contract, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The RFP and its Addenda (if applicable); and

   2. The Respondent's Proposal.

B. In the event the County requires that an Ensuing Agreement be executed following award and a dispute arises between the terms and conditions of the Ensuing Agreement, the RFP and its Addenda (if applicable), and the Respondent's Proposal, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The terms and conditions of the Ensuing Agreement;

   2. The RFP and its Addenda; and

   3. The Respondent's Proposal.

4.3 OWNERSHIP OF PROPOSAL

Each Proposal shall become the property of the County upon submittal and will not be returned to Respondents unless received after the submittal deadline.

4.4 DISQUALIFICATION OF RESPONDENT

Upon signing and submittal of the Proposal, a Respondent offering to sell supplies, materials, services, or equipment to the County, certifies that the Respondent has not violated the antitrust laws of the State of Texas codified in Business & Commerce Code, Section 15.01, or the Federal Antitrust Laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged such line of business. Any or all Proposals may be rejected if the County believes that collusion exists among the Respondents.

4.5 FUNDING

The County intends to budget and make sufficient funds available and authorize funds for expenditure to finance the costs of the Contract. All Respondents understand and agree that the County's payment of

amounts under the Contract shall be contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to make payments under this Contract.

4.6 ASSIGNMENT, SUCCESSORS AND ASSIGNS

The Successful Respondent may not assign, sell, or otherwise transfer the Contract or any other rights or interests obtained under the Contract without written permission of the Williamson County the Commissioners Court. The Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the contracting parties hereto and their respective successors and permitted assigns.

4.7 IMPLIED REQUIREMENTS

Products or services not specifically described or required in the RFP, but are necessary to provide the functional capabilities described by the Respondent, shall be implied and deemed to be included in the Proposal.

4.8 TERMINATION

A. **Termination for Cause:** The County reserves the right to terminate the Contract and/or any Ensuing Agreement(s) for default if the Successful Respondent breaches any of the Proposal specifications, terms and conditions, including warranties of the Respondent, if any, or if the Successful Respondent becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies the County may have at law or equity or as may otherwise be provided hereunder. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all other requirements to the County's satisfaction, and/or to meet all other obligations and requirements.

B. **Termination for Convenience:** The County may terminate the Contract and/or any Ensuing Agreement(s) for convenience and without cause or further liability, upon no less than thirty (30) calendar days written notice to the Successful Respondent. The County reserves the right to extend this period if it is in the best interest of the County. In the event the County exercises its right to terminate without cause, it is understood and agreed that only the amounts due to the Successful Respondent for goods, commodities and/or services provided and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for the County's termination for convenience.

4.9 NON-PERFORMANCE

It is the objective of the County to obtain complete and satisfactory performance of the requirements set forth herein. In addition to any other remedies available at law, in equity or that may be set out herein, failure to perform may result in a deduction of payment equal to the amount of the goods and/or services that were not provided and/or performed to the County's satisfaction.

In the event of such non-performance, the County shall have the right, but shall not be obligated, to complete the services itself or by others and/or purchase the goods from other sources. If the County elects to acquire the goods or perform the services itself or by others, pursuant to the foregoing, the Successful Respondent shall reimburse the County, within ten (10) calendar days of demand, for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting the nonperformance which the Successful Respondent fails to meet pursuant to the requirements set out herein. In the event the Successful Respondent refuses to reimburse the County as set out in this provision, the County shall have the right to deduct such reimbursement amounts from any amounts that may be then owing or that may become owing in the future to the Successful Respondent.

4.10 PROPRIETARY INFORMATION AND THE TEXAS PUBLIC INFORMATION ACT

All material submitted to the County shall become public property and subject to the Texas Public Information Act upon receipt. If a Respondent does not desire proprietary information in the Proposal to be disclosed, each page must be clearly identified and marked proprietary at time of submittal or, more preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary. Failure to clearly identify and mark information as being proprietary as set forth under this provision will result in all unmarked information being deemed non-proprietary and available to the public. For all information that has not been clearly identified and marked as proprietary by the Respondent, the County may choose to place such information on the County's website and/or a similar public database without obtaining any type of prior consent from the Respondent.

The County will, to the extent allowed by law, endeavor to protect from public disclosure the information that has been identified and marked as proprietary. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General.

To the extent, if any, that any provision in this RFP or in the Respondent's Proposal is in conflict with Texas Government Code, Chapter 552, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood, and agreed, that the County, and its officers and employees, may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to the County as to whether or not the same are available to the public. It is further understood that that the County, and its officers and employees, shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that the County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to the County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

4.11 RIGHT TO AUDIT

The Successful Respondent agrees that the County or its duly authorized representatives shall, until the expiration of three (3) years after termination or expiration of the services to be performed, have access to and the right to examine and photocopy any and all books, documents, papers and records of the Successful Respondent, which are directly pertinent to the services to be performed or goods to delivered for the purposes of making audits, examinations, excerpts and transcriptions. The Successful Respondent agrees that the County shall have access during normal working hours to all necessary facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give the Successful Respondent reasonable advance notice of intended audits.

4.12 TESTING AND INSPECTIONS

The County reserves the right to inspect and test equipment, supplies, materials and goods for quality and compliance with this RFP, and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the County can deem the Respondent to be in breach and terminate the Contract and/or any Ensuing Agreement(s).

4.13 PROPOSAL PREPARATION COSTS

The cost of developing Proposals is the sole responsibility of the Respondents and shall not be charged to the County. There is no expressed or implied obligation for the County to reimburse the Respondents for any expense incurred in preparing a Proposal in response to this RFP and the County will not reimburse the Respondents for such expenses.

4.14 INDEMNIFICATION

The Successful Respondent shall indemnify, defend and save harmless, the County, its officials, employees, agents and agent's employees from, and against, all claims, liability, and expenses including reasonable attorneys' fees, arising from activities of the Respondent, its agents, servants or employees, performed hereunder that result from the negligent act, error, or omission of the Respondent or any of the Respondent's agents, servants or employees, as well as all claims of loss or damage to the Respondent's and the County's property, equipment, and/or supplies.

Furthermore, the County, its officials, employees, agents and agents' employees shall not be liable for damages to the Successful Respondent arising from any act of any third party, including, but not limited to, theft. The Successful Respondent further agrees to indemnify, defend and save harmless, the County from its officials, employee, agents and agents' employees against all claims of whatever nature arising from any accident, injury, or damage whatsoever, caused to any person, or the property of any person, occurring in relation to the Successful Respondent's performance of any services requested hereunder during the term of the Contract and/or any Ensuing Agreement(s).

The Successful Respondent shall timely report all claims, demands, suits, actions, proceedings, liens or judgements to the County and shall, upon the receipt of any claim, demand, suit, action, proceeding, lien or judgement, not later than the fifteenth (15th) day of each month; provide the County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of the County required by the Successful Respondent in the defense of each matter. The Successful Respondent's duty to defend, indemnify and hold the County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of the Contract and/or any Ensuing Agreement(s), unless otherwise agreed by the County in writing. The provisions of this section shall survive the termination of the Contract and shall remain in full force and effect with respect to all such matters no matter when they arise.

In the event of any dispute between the parties, as to whether a claim, demand, suit, action, proceeding, lien or judgement, that appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of the County, the Respondent shall nevertheless fully defend such claim, demand, suit or action, proceeding, lien or judgement, until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of the Respondent are not an issue in the matter.

The Successful Respondent's indemnification shall cover, and the Successful Respondent agrees to, indemnify the County, in the event the County is found to have been negligent for having selected the Successful Respondent to perform the work described in this request. The provision by the Successful Respondent of insurance shall not limit the liability of the Successful Respondent under the Contract and/or any Ensuing Agreement(s).

4.15 WAIVER OF SUBROGATION

The Successful Respondent and the Successful Respondent's insurance carrier waive any and all rights whatsoever with regard to subrogation against the County as an indirect party to any suit arising out of personal or property damages resulting from the Respondent's performance under this Contract and any Ensuing Agreement(s).

4.16 RELATIONSHIP OF THE PARTIES

The Successful Respondent shall be an independent contractor and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions herein which may appear to give the County the right to direct the Successful Respondent as to details of doing work herein covered, or to exercise a measure of control over the work, shall be deemed to mean that the Successful Respondent shall follow the desires of the County in the results of the work only. The County shall not retain or have the right to control the Successful Respondent's means, methods or

details pertaining to the Successful Respondent's performance of the work. The County and the Successful Respondent hereby agree and declare that the Successful Respondent is an independent contractor and as such meets the qualifications of an "Independent Contractor" under Texas Workers Compensation Act, Texas Labor Code, Section 406.141, that the Successful Respondent is not an employee of the County, and that the Successful Respondent and its employees, agents and subcontractors shall not be entitled to workers compensation coverage or any other type of insurance coverage held by the County.

4.17 SOLE PROVIDER

The Successful Respondent agrees and acknowledges that it shall not be considered a sole provider of the goods and/or services described herein and that the County may contract with other providers of such goods and/or services if the County deems, at its sole discretion, that multiple providers of the same goods and/or services will serve the best interest of the County.

4.18 FORCE MAJEURE

If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

4.19 SEVERABILITY

If any provision of this RFP, the Contract or any Ensuing Agreement(s) shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision thereof, but rather the entire RFP, Contract or any Ensuing Agreement (s) will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this RFP, the Contract or any Ensuing Agreement(s) is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this RFP, the Contract or any Ensuing Agreement(s) and be deemed to be validated and enforceable.

4.20 EQUAL OPPORTUNITY

Neither party shall discriminate against any employee or applicant for employment because of race, color, sex, religion or national origin.

4.21 NOTICE

Any notice to be given shall be in writing and may be distributed by personal delivery, or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

The County: Williamson County Purchasing Department
Attn: Purchasing Agent
901 South Austin Avenue
Georgetown, Texas 78626

The Respondent: Address set out in Respondent's Transmittal Letter

Notices given in accordance with this provision shall be effective upon (1) receipt by the party to which notice is given, or (2) on the third (3rd) calendar day following mailing, whichever occurs first.

4.22 SALES AND USE TAX EXEMPTION

The County is a body, corporate and politic, under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code, Section 151.309, as amended, and the services and/or goods subject hereof are being secured for use by the County.

4.23 COMPLIANCE WITH LAWS

The County and the Successful Respondent shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any Ensuing Agreement(s), including, without limitation, Workers' Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the Successful Respondent shall furnish the County with certification of compliance with said laws, statues, ordinances, rules, regulations, orders, and decrees above specified.

4.24 INCORPORATION OF EXHIBITS, APPENDICES AND ATTACHMENTS

All of the Exhibits, Appendices and Attachments referred to herein are incorporated by reference as if set forth verbatim herein. Any conflicting terms in the Contract documents will be resolved at the sole discretion of the Commissioners Court.

4.25 NO WAIVER OF IMMUNITIES

Nothing herein shall be deemed to waive, modify or amend any legal defense available at law or in equity to the County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. The County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

4.26 NO WAIVER

The failure or delay of any party to enforce at any time or any period of time any of the provisions of this RFP, the Contract or any Ensuing Agreement(s) shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

4.27 CURRENT REVENUES

The obligations of the parties under the Contract and any Ensuing Agreement(s) do not constitute a general obligation or indebtedness of the County for which the County is obligated to levy, pledge, or collect any of taxation. It is understood and agreed that the County shall have the right to terminate the Contract and any Ensuing Agreement(s) at the end of any the County fiscal year if the governing body of the County does not appropriate sufficient funds as determined by the County's budget for the fiscal year in question. The County may effect such termination by giving written notice of termination to t Successful Respondent at the end of its then-current fiscal year.

4.28 BINDING EFFECT

This Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the parties and their respective permitted assigns and successors.

4.29 ASSIGNMENT

The Successful Respondent's interest and duties hereunder may not be assigned or delegated to a third party without the express written consent of the County.

4.30 SAFETY

The Successful Respondent is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with any services to be provided hereunder. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

4.31 GENERAL OBLIGATIONS AND RELIANCE

The Successful Respondent shall perform all services and/or provide all goods, as well as those reasonably inferable and necessary for completion and provision of services and/or goods required hereunder. The Successful Respondent shall keep the County informed of the progress and quality the services. The Successful Respondent agrees and acknowledges that the County is relying on the Successful Respondent's represented expertise and ability to provide the goods and/or services described herein. The Successful Respondent agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of the County in accordance with the County's requirements and procedures. The Successful Respondent's duties, as set forth herein, shall at no time be in any way diminished by reason of any approval by the County, nor shall the Successful Respondent be released from any liability reason of such approval by the County, it being understood that the County at all times is ultimately relying upon the Successful Respondent's skill and knowledge in performing the services and providing any goods required hereunder.

4.32 CONTRACTUAL DEVELOPMENT

The Commissioners Court may award the Contract on the basis of the initial Proposals received, without any further or additional discussions. Therefore, each initial Proposal should contain the Respondent best terms and offer. The contents of the RFP and the selected Proposal will become an integral part of the Contract, but may be modified, at Williamson County's sole discretion, by provisions of an Ensuing Agreement. Therefore, the Respondent must agree to inclusion in an Ensuing Agreement of t Proposal specifications, terms and conditions of this RFP. Williamson County may, at its discretion, opt to conduct further discussions with responsible offerors and request the highest ranked firm's Best and Final Offer (BAFO).

4.33 ENTIRE AGREEMENT

The Contract and any Ensuing Agreement(s) shall supersede all prior Agreements, written or oral between the Successful Respondent and the County and shall constitute the entire Agreement and understanding between the parties with respect to the services and/or goods to be provided. Each of the provisions herein shall be binding upon the parties and may not be waived, modified, amended or altered, except by writing signed by the Successful Respondent and the County.

4.34 SURVIVABILITY

All applicable agreements that were entered into between the Successful Respondent and the County, under the terms and conditions of the Contract and/or any Ensuing Agreement(s), shall survive the expiration or termination thereof for ninety (90) days unless a new contract has been awarded.

The County may exercise, by written notice to the Successful Respondent no later than ten (10) calendar days of the Contract expiration, this clause for emergency cases only.

4.35 PAYMENT

The County's payment for goods and services shall be governed by the Texas Government Code, Chapter 2251. An invoice shall be deemed overdue the thirty-first (31st) day after the later of the following:

A. The date the County receives the goods under the Contract;
B. The date the performance of the service under the Contract is completed; or
C. The date the Williamson County Auditor receives an invoice for the goods or services.

Interest charges for any overdue payments shall be paid by the County in accordance with Texas Government Code, Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of the County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one (1) percent and the prime rate published in the Wall Street Journal on the first (1st) day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by the Successful Respondent, the County shall notify the Successful Respondent of the error not later than the twenty-first (21st) day after the date the County receives the invoice. If the error is resolved in favor of the Successful Respondent, the Successful Respondent shall be entitled to receive interest on the unpaid balance of the invoice submitted by the Successful Respondent beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, the Successful Respondent shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by the Texas Government Code, Chapter 2251, if the corrected invoice is not paid by the appropriate date.

As a minimum, invoices shall include:

A. Name, address, and telephone number of the Successful Respondent and similar information in the event the payment is to be made to a different address.

B. The County Contract, Purchase Order.

C. Identification of items or service as outlined in the Contract.

D. Quantity or quantities, applicable unit prices, total prices and total amount.

E. Any additional payment information which may be called for by the Contract.

Payment inquiries should be directed to the following address:

Williamson County Auditor's Office, Accounts Payable Department
Email: accountspayable@wilco.org
Phone: 512-943-1500

4.36 CONTRACTUAL FORMATION AND ENSUING AGREEMENT

The RFP and the Respondent's Proposal, when properly accepted by the Commissioners Court, shall constitute a Contract equally binding between the Successful Respondent and the County. The Successful Respondent may be required by Williamson County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and Respondent's Proposal.

4.37 LEGAL LIABILITY INFORMATION

The Successful Respondent shall disclose all legal liability information by listing any pending litigation anticipated litigation that your firm is involved in including, but not limited to, potential or actual legal matters with private parties and any local, state, federal or international governmental entities. The County reserves the right to consider legal liability information in the recommendation of any proposed contract to the Commissioners Court.

4.38 CONFIDENTIALITY

Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

4.39 INCLEMENT WEATHER

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a Proposal submission deadline, the Proposal closing will automatically be postponed until the next business day the County is open. If inclement weather conditions or any other unforeseen event causes delays in carrier service operations, the County may issue an Addendum to all known Respondents interested in the project to extend the deadline. It will be the responsibility of the Respondent to notify the County of their interest in the project if these conditions are impacting their ability to turn in a submission within the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

4.40 AIR QUALITY

In determining the overall best Proposal, the County may, to the extent applicable, exercise the option granted to local governments under the Texas Local Government Code, Section 271.907.

This option allows the County to evaluate Proposals and give preference to goods and/or services of Respondent that demonstrates that the Respondent meets or exceeds any and all state or federal environmental standards, including voluntary standards, relating to air quality. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. All Respondents are expected to meet all mandated state and federal air quality standards.

4.41 COOPERATIVE PURCHASING PROGRAM

During the term of the Contract resulting from this RFP, the County would like to afford the same prices, terms and conditions to other political subdivisions or public entities. Another entity's participation in the Contract resulting from this RFP is subject to a properly authorized Purchasing Cooperative Inter-local Agreement (ILA) with the County. Any liability created by purchase orders issued against the Contract shall be the sole responsibility of the governmental agency placing the order.

4.42 CONFIDENTALITY

The Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

Supplier: **BIOCARE PHARMACY**

Proposal References

List the last three (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this RFP package, were recently provided by Respondent.

Reference 1

Client Name: **Lac Hong Adult Day Center**

Location: **Houston, TX**

Contact Name: **Kim Sa**

Title: **Manager**

Phone: **281-776-9955**

E-mail **N/A**

Contract Date To: **2003**

Contract Date From: **Current**

Contract Value: $ **N/A**

Scope of Work:

Partnership with clinic to fill/refill prescriptions and deliver

Reference 2

Client Name: **Sunrise Comprehensive Medical Center**

Location: **Houston, TX**

Contact Name: **Duc Phan**

Title: **Doctor of Medicine, Owner**

Phone: **832-328-1437**

E-mail **N/A**

Contract Date To: **2013**

Contract Date From: **Current**

Contract Value: $ **N/A**

Scope of Work:

Clinic vaccine/medication/medical supplies order and fulfillment

Reference 3

Client Name:	Location:
Anda, Inc	**Weston, FL**
Contact Name:	Title:
Kimberly Wilburn	**Sales Representative/ Account manager**
Phone:	E-mail
1-800-331-2632	**anda@andanet.com**

Contract Date To:	Contract Date From:	Contract Value: $
2003	**Current**	**N/A**

Scope of Work:

Drug Ordering/Restocking

Supplier: **BIOCARE PHARMACY**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

This questionnaire is being filed in accordance with chapter 176 of the Local Government Code by a person doing business with the governmental entity.

By law this questionnaire must be filed with the records administrator of the local government not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1	**Name of person doing business with local governmental entity.**	**Annie Truong**
2	☐	**Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than September 1 of the year for which an activity described in Section 176.006(a), Local Government Code, is pending and not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)
3	**Describe each affiliation or business relationship with an employee or contractor of the local governmental entity who makes recommendations to a local government officer of the local governmental entity with respect to expenditure of money.**	**N/A**
4	**Describe each affiliation or business relationship with a person who is a local government officer and who appoints or employs a local government officer of the local governmental entity that is the subject of this questionnaire.**	**N/A**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

Page 2

5	**Name of local government officer with whom filer has affiliation or business relationship.** **(Complete this section only if the answer to A, B, or C is YES.)** This section, item 5 including subparts A, B, C & D, must be completed for each officer with whom the filer has affiliation or other relationship. Attach additional pages to this Form CIQ as necessary. A. Is the local government officer named in this section receiving or likely to receive taxable income from the filer of the questionnaire? ☐ Yes ☑ No B. Is the filer of the questionnaire receiving or likely to receive taxable income from or at the direction of the local government officer named in this section AND the taxable income is not from the local governmental entity? ☐ Yes ☑ No C. Is the filer of this questionnaire affiliated with a corporation or other business entity that the local government officer serves as an officer or director, or holds an ownership of 10 percent or more? ☐ Yes ☑ No D. Describe each affiliation or business relationship. **6. Describe any other affiliation or business relationship that might cause conflict of interest:**
7	

	Signature of person doing business with the governmental entity	Date
	Signature not required if completing in BIDSYNC electronically.	

Supplier: **BIOCARE PHARMACY**

PROPOSAL AFFIDAVIT

This form must be completed, signed, notarized and returned with Proposal package

The undersigned certifies that the RFP and the Respondent's Proposal have been carefully reviewed and are submitted as correct and final. Respondent further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Proposal, and upon the conditions contained in the RFP.

I hereby certify that the foregoing Proposal has not been prepared in collusion with any other Respondent or other person or persons engaged in the same line of business prior to the official opening of this Proposal. Further, I certify that the Respondent is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Proposal on, or to influence any person or persons to submit a Proposal or not to submit a Proposal thereon."

Name of Respondent:	**Annie Truong**
Address of Respondent:	**10603 Bellaire Blvd, Ste B114, Houston, TX 77072**
Email:	**BiocareRX@yahoo.com**
Telephone:	**281-530-5800**
Printed Name of Person Submitting Affidavit:	**Annie Truong**
Signature of Person Submitting Affidavit:	

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Proposal will in no way have a negative impact on the County's evaluation of the Proposal.

☐	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Respondent agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, , (*Name of Signer*) am a duly authorized officer of/agent for (*Name of Respondent*) and have been duly authorized to execute the foregoing on behalf of the said (*Name of Respondent*).

SUBSCRIBED AND SWORN to before me by the above-named
on this the day of , 20.

Notary Public in and for

The State of

The County of

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

Supplier: **BIOCARE PHARMACY**

PRICE SHEET

The undersigned Respondent, having become familiar with this RFP agrees to furnish the services and/or goods in accordance with this RFP at the following rate(s).

Please provide AWP Plus/Minus % Discount in blanks provided below and complete the 2 pages of Drug Brand/Generic price sheets with Per/Capsule-Pill pricing.

Proposer shall provide current Average Wholesale Price (AWP) minus a percentage (%) discount plus a dispensing fee (if applicable).

BRAND NAME MEDICATIONS

Minus Percent (%) Discount 15%

Dispensing Fee (if applicable) $1.50 per prescription

GENERIC MEDICATIONS

Minus Percent (%) Discount 30%

Dispensing Fee (if applicable) $1.50 per prescription

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
VALPROIC ACID 250MG CAP	**$9.28**	**$0.87**
HYDROXYZINE PAM 50MG CAP	**$5.98**	**$0.80**
BUPROPION 100MG TAB	**$11.81**	**$1.47**
LITHIUM CARB 300MG CAP	**N/A**	**$0.25**
QUETIAPINE 100MG TAB	**$12.29**	**$0.30**
LACTULOSE 10GM/15 SOL	**N/A**	**$0.08**
ANTI-DANDRUF 1%	**$0.14**	**N/A**
HYDROCERIN LOT	**$0.06**	**N/A**
GERI-MOX SUS	**N/A**	**$0.12**
DIPHENHYDRAMINE 25MG CAP	**N/A**	**$0.12**
SUDOGEST 60MG TAB	**$0.09**	**N/A**
DIPHENHYDRAMINE 50MG CAP	**N/A**	**$0.15**
AMOXICILLIN 500MG CAP	**N/A**	**$0.35**
QUETIAPINE 300MG TAB	**$30.36**	**$1.26**
NAPROXEN 500MG TAB	**N/A**	**$0.40**
AMITRIPTYLINE 25MG TAB	**N/A**	**$0.88**
TRAMADOL 50MG TAB	**N/A**	**$0.15**
METFORMIN 500MG TAB	**$1.96**	**$0.10**
HYDROXYZ PAMOATE 25MG CAP	**$4.90**	**$0.30**
POLYETH GLYC 3350 NF POW	**N/A**	**$0.08**
QUETIAPINE 200MG TAB	**$23.17**	**$1.75**
LISINOPRIL 10MG TAB	**$23.43**	**$0.10**
VENLAFAXINE 75MG TAB	**N/A**	**$1.02**
HCTZ 25MG TAB	**N/A**	**$0.10**
BENZTROPINE 1MG TAB	**N/A**	**$0.52**
METFORMIN 1000MG TAB	**$4.06**	**$0.15**
CITALOPRAM 20MG TAB	**$15.17**	**$0.15**
BENAZEPRIL 10MG TAB	**N/A**	**$0.25**
TRAZODONE 100MG TAB	**N/A**	**$0.50**
SMZ/TMP DS 800-160 TAB	**$5.18**	**$0.40**
POLYETH GLYC 3350 NF POW	**$0.08**	**$0.08**
BUPROPION 75MG TAB	**N/A**	**$0.80**
TRAZODONE 50MG TAB	**N/A**	**$0.35**
AMLODIPINE 10MG TAB	**$14.34**	**$0.10**

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
QUETIAPINE 300MG TAB	**$30.36**	**$1.26**
ATRIPLA TAB	**$142.98**	**N/A**
QUETIAPINE 100MG TAB	**$12.29**	**$0.30**
TRUVADA TAB	**$87.95**	**N/A**
LANTUS 100/ML INJ	**$41.22**	**N/A**
QUETIAPINE 200MG TAB	**$23.17**	**$1.05**
DULOXETINE 60MG CAP	**$13.40**	**$0.84**
REYATAZ 300MG CAP	**$81.32**	**N/A**
OLANZAPINE 20MG TAB	**$60.56**	**$0.81**
COMPLERA TAB	**$150.40**	**N/A**
OLANZAPINE 10MG TAB	**$33.95**	**$0.80**
QUETIAPINE 400MG TAB	**$35.69**	**$1.30**
LATUDA 40MG TAB	**$60.94**	**N/A**
BUPROPION 100MG TAB	**$11.51**	**$2.63**
DIVALPROEX 500MG ER TAB	**$9.38**	**$1.65**
ABILIFY 10MG TAB	**$48.83**	**$1.05**
VALPROIC ACID 250MG CAP	**N/A**	**$0.90**
ISENTRESS 400MG TAB	**$38.99**	**N/A**
CYCLOPHOSPH 25MG TAB	**N/A**	**$17.54**
INVEGA 9MG TAB	**$85.61**	**$36.96**
OLANZAPINE 5MG TAB	**$22.54**	**$0.56**
LATUDA 20MG TAB	**$60.94**	**N/A**
OLANZAPINE 15MG TAB	**$33.95**	**$0.77**
HUMULIN R U-100 U-100 INJ	**$27.66**	**N/A**
INVEGA 3MG TAB	**$57.08**	**N/A**
VENTOLIN HFA AER	**$5.78**	**N/A**
ABILIFY 5MG TAB	**$48.83**	**$2.88**
NORVIR 100MG TAB	**$16.19**	**N/A**
ADVAIR DISKUS 250/50 AER	**$11.10**	**N/A**
PROMETHAZINE HCL 25MG SUPR	**N/A**	**$14.00**
EPINEPHRINE 0.3MG 2-PACK	**$469.28**	**$335.94**
INVEGA 6MG TAB	**$57.08**	**$26.80**
XIFAXAN 550MG TAB	**$54.78**	**N/A**
PERMETHRIN 5% CRM	**$3.38**	**N/A**
PREZISTA 800MG TAB	**$82.19**	**N/A**

NEW DIMENSION PHARMACY

Bid Contact **CARLOS HEATH**
newdimensionpharmacy@yahoo.com
Ph 713-263-7680

Address **1102 PINEMONT STE.F**
Houston, TX 77018

Bid Notes **The following attachment contains our bid for Pharmaceutical services and supplies for Williamson County.**

Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch.	Docs
1708-185--01-01	Please attach all documents to this line	**Supplier Product Code:**	**First Offer -**	1 / each	**Y**	**Y**
				Supplier Total	$0.00	

NEW DIMENSION PHARMACY

Item: **Please attach all documents to this line**

Attachments

Williamson County Bid 1708-185.pdf

WILLIAMSON
COUNTY
1848

Bid #1708-185 Pharmaceutical Service and Supplies

Table of Contents

- Transmittal letter
- Executive Summary
- Proposal Specifications
- Price sheet
- References
- Conflict of Interest Questionnaire
- Certificate of Interested Parties
- Proposal Affidavit

NEW DIMENSION PHARMACY
1102 PINEMONT STE.F
HOUSTON, TEXAS 77018
713.263.7680 (O)
713. 263.7685 (F)

Come and Experience,
A New Dimension of Health...Healing...Hope....

Dr. Carlos Heath
President/CEO

Mrs. Brenda Fuller
Williamson County Jail
901 South Austin Ave.
Georgetown, Texas 78626

Dear Mrs. Fuller,

My name is Dr. Carlos Heath, Pharm.D, MBA and I am the President/CEO of the Basileia Group, Inc. dba New Dimension Pharmacy located at 1102 Pinemont Ste.F, Houston ,Texas 77018 and I submitting within this transmittal letter a brief synopsis of our company. We are a C-corporation that has just celebrated our 10th year anniversary in July. We are in incorporated in Texas and Nevada with our primary location being in Houston, Texas. Our Employer Identification number is 26-0638595. The proposal that we are submitting is valid for the time period specified within this proposal.It is our intent to honor every requirement set forth by Williamson County within thi proposal. If you have any questions, please do not hesitate to contact me at 713.263.7680 or I can be reached by fax, 713.263.7685 or via email: newdimensionpharmacy@yahoo.com.

Sincerely,

Dr. Carlos Heath, Pharm.D, MBA

Executive Summary

Basileia Group, Inc. (d.b.a. New Dimension Pharmacy and also referred to as "the Company") exists to empower its customers with solutions that will improve their health, and to provide strategies that will promote positive patient outcomes. The Company's primary aim is to work with physicians to find the most cost effective, safe, and beneficial solutions to the patient's condition. The Company provides services such as prescriptions, diabetic shoes, medical supplies, and educational sessions for its clients. Moreover, the Company has pharmaceutical compounding capabilities, giving it the ability to meet each client's special needs.

Carlos Heath will own and operate the Company. Carlos Heath, Pharm.D, MBA most recently occupied the position as an Overnight Pharmacist for Walgreen's Drug Stores. He served with this national company for almost 10 years. He earned his Doctor of Pharmacy degree from Texas Southern University and his Master of Business Administration Degree from the University of Phoenix.

We at New Dimension Pharmacy believe we are positioned and prepared to handle all of the pharmaceutical needs that may arise at Williamson County. Currently we provide medical supplies and prescriptions to Williamson County Jail via contract # IFB 1604-071 and is prepared to provide more services for a relationship that was established a year ago. We are familiar with how Williamson County operates and therefore ready to make the transition to provide more services smooth and seamless. We believe we can offer competitive prices due to our dual position in the healthcare arena. We function as a pharmacy but we also have a wholesalers' license which allows us to provide medications at reasonable costs to our clients. Again, we have contracts the City of Houston-BARC unit, we fill prescriptions with the City of Houston City Jail via IDIQ and was just awarded a contract with UTMB Correctional Managed Care Unit. We have a reputation of providing excellent customer service and desire to do the same for Williamson County as well.

PROPOSAL SPECIFICATIONS

Williamson County is requesting Proposals from firms to supply Pharmaceuticals and Pharmaceutical Service/Supplies for its County Jail, whose current population is 650 inmates.

Please acknowledge and/or respond to each of the specifications listed below and expound your firm's abilities to meet or exceed these requirements.

1. Proposer agrees and understands that the awarded proposer will be the principal source of supply for pharmaceuticals during the term of the contract. However, Williamson County reserves the right to purchase these products from other sources of supply in case of emergency or when the vendor is out of stock and it becomes necessary for Williamson County to support its immediate operational requirements. We acknowledge Williamson County reserve the right to purchase these products from other sources of supply in case of emergency or when the we are out of stock and it becomes necessary for Williamson County to support its immediate operational requirements.
2. All pharmaceuticals, chemicals, and drugs provided under this contract shall conform to the standards set by the Federal Food and Drug Administration and the latest editions of the US Pharmacopoeia, the National Formulary, or the American Medical Association's publication, New Drugs, where applicable, whether-or-not this is specially indicated in the specification or proposal. In cases of multi-source drug products, names of manufacturers must be listed in the current FDA of approved drug products with therapeutic equivalence evaluations publication. We acknowledge that all pharmaceuticals, chemicals, and drugs provided under this contract shall conform to the standards set by the Federal Food and Drug Administration and the latest editions of the US Pharmacopoeia, the National Formulary, or the American Medical Association's publication, New Drugs, where applicable, whether-or-not this is specially indicated in the specification or proposal. In cases of multi-source drug products, names of manufacturers must be listed in the current FDA of approved drug products with therapeutic equivalence evaluations publication.
3. Supplier must be a licensed Medicaid vendor. We are a licensed Medicaid vendor.
4. Supplier must be an approved pharmacy by the Texas Department of Health/HIV program. We are an approved pharmacy by the Texas Department of Health
5. All products must be packaged in a manner that will afford reasonable protection against moisture and contamination always.
    a. Supplier shall utilize blister packs for dispensing of medications. We acknowledge that we do use blister packaging
    b. Labels shall be affixed to the blister pack and the Medication Administration Record (MAR). Labels shall contain all the necessary information required by law as well as the inmates housing unit and date of birth. **A sample of the blister pack should be included**.
    c. Supplier shall furnish Keep on Person (KOP) medications in approved containers and label them as such. We acknowledge that we will keep on person medications in approved containers acceptable to Williamson County
    d. Supplier shall provide the County with a minimum four (4) medication carts for the dispensing of medications at no additional cost to the County. These carts shall be furnished with locks and keys in order to avoid unauthorized access. We will provide Williamson County will four medication carts at no additional cost.
    e. Supplier shall have ability to provide a stock-medication type inventory. We have and will provide Williamson County with stock-medication type inventory.
    f. Protocols must be updated often to stay abreast of community standards. We acknowledge proctocols will be updated according to Williamson County guidelines.
6. Unless exceptions are made, such as for biological, all shipments of pharmaceutical products,

which incur expiration dates, must have a minimum of one-year dating as ofdelivery.

7. Items meeting the following criteria shall be exchangeable or creditable at the contracted price.

    a. Trademarked items in original unopened package in accordance with the vendor's return goods policy. Vendor shall provide a copy of the return goods policy.

b. Non-trademarked items in original unopened packages, in accordance with the vendor's return goods policy. We acknowledge and is in full agreement with Williamson County.

c. Outdated biological products returned within one year after expiration date. We acknowledge and is in full agreement with Williamson County

d. Any product that arouses questionable physical properties or therapeutic activities. The County reserves the right to return such product to the vendor for credit or immediate replacement. Return of such products shall not require prior notification to the vendor, and shall be returned at the vendor's expense. We acknowledge and is in full agreement with Williamson County

8. The County reserves the right to submit samples of products of doubtful potency or composition to a competent independent laboratory for assay, and in such cases, the cost of such assay will be paid by the supplier if products are found to be below US Pharmacopoeia, National Formulary, or Federal Standards.

9. Final inspection of all products and decision of acceptance or rejection will be made by the County. Final inspection shall be conclusive except with respect to latent defects, fraud, or such gross mistakes as shall amount to fraud. Final inspection resulting in acceptance or rejection of the products will be made as soon as practicable, but failure to inspect shall not be construed as a waiver by the County to claim reimbursement or damages for such products which are later found to be in nonconformance with specifications.

10. The County shall be billed monthly. The billing procedures shall allow for separate billing for inmates that are identified as I.N.S. or U.S. Marshall Inmates and that billing should go directly to the respective agency.

11. Separate itemized billing and credit invoices, on-line or computerized program for billing and credits, computerized inventory control in addition to online ordering must be provided and should be used for invoice reconciliation. In addition, the County Jail must be notified via e-mail and/or fax prior to shipment of partial orders. The e-mail or fax must list what item(s) and quantity(s) are not being shipped and when these item(s) will be available for shipment to complete the order.

12. Inventory should be controlled by scanning orders for delivery and return.

13. Supplier shall have the ability to generate the following reports:
    i. Tracking of usage of medications by inmate, specific doctor, or specific medication
    ii. Online invoicing
    iii. Itemized incoming deliveries
    iv. Online credits and online returns
    v. Overall credit % per time period requested
    vi. "Ad hoc" reports

14. A computerized program interface linking the County Jail to the supplier must be available. Provide a detailed description of interface including any software and/or hardware that is required. If software and/or hardware are required, state whether it will be provided by the supplier or must be provided by the County.

15. Supplier shall provide on-site quarterly inspections by a registered Pharmacist at no additional charge upon request by the County.

16. **Evaluation of proposals will be made to the responsive or responsible Pharmaceutical Supplier submitting the overall best proposal, with 40% of the evaluation weighted criteria on having the lowest cost consisting of the current average wholesale price (AWP) minus percent (%) discount plus a dispensing fee (if applicable). Alternative pricing models may**

be considered. The publication used to determine average wholesale price should be provided by each proposer. In addition, 30 % of the evaluation weighted criteria will be on meeting specification requirements, and 30 % of the evaluation weighted criteria on vendor submitted references and vendor experience working with correctional facilities.

17. Proposers overall mark-up prices shall include cost of shipping and delivery of the pharmaceutical item to the designated delivery point and shall not include Federal or State of Texas sales, excise, and use taxes.

18. Proposer shall provide three (3) price list copies plus one original with their proposal.

19. The preferred order method for new prescriptions and refills shall be online, however, orders placed by fax or phone shall be accepted. Additionally, emergency "stat" ordering shall be done by phone.

20. Delivery of all items supplied under this contract shall be made FOB destination. The proposer shall provide next day delivery for all items ordered by 4:00 PM the previous day. Deliveries shall be made Monday through Saturday. Orders received by vendor on Saturday shall be delivered on Monday.

21. Supplier will be required to maintain all records for five (5) years. These records shall be the property of the county.

22. The proposer's representative must be available to respond to all calls from the using county agencies to assist in filling emergency orders, resolving complaints and problems regarding orders and deliveries and the return of goods.

23. The proposer shall provide a local telephone number or a toll-free number from Georgetown, Texas for the placement of calls against this contract and shall provide the name, title, and telephone number of a representative who can be contacted and available to provide around-the-clock, 24-hour, 7-days a week, customer service. Telephone numbers provided for this purpose shall not be serviced through an answering machine or other automatic answering device, or in any manner to impede immediate access to a representative capable of addressing emergencies and problems.

    i. Name Dr. Carlos Heath, Pharm.D, MBA

    ii. Phone Number 713.263.7680

    iii. Emergency Order Phone Number 832.453.1696

    iv. Fax Number 713.263.7685

24. All orders will be placed through the issuance of a purchase order. The purchase order number must be referenced on all invoices submitted to Williamson County.

25. Williamson County would prefer a vendor with substantial experience working in correctional facilities. Please provide your firm's years of experience in a correction's environment.

Supplier Response Form

PRICE SHEET

The undersigned Respondent, having become familiar with this RFP agrees to furnish the services and/or goods in accordance with this RFP at the following rate(s).

Please provide AWP Plus/Minus % Discount in blanks provided below and complete the 2 pages of Drug Brand/Generic price sheets with Per/Capsule-Pill pricing.

Proposer shall provide current Average Wholesale Price (AWP) minus a percentage (%) discount plus a dispensing fee (if applicable).

BRAND NAME MEDICATIONS

Minus Percent (%) Discount 10%

Dispensing Fee (if applicable) 0

GENERIC MEDICATIONS

Minus Percent (%) Discount 65%

Dispensing Fee (if applicable) 0

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
VALPROIC ACID 250MG CAP	n/a	0.25
HYDROXYZINE PAM 50MG CAP	n/a	0.08
BUPROPION 100MG TAB	n/a	0.23
LITHIUM CARB 300MG CAP	n/a	0.09
QUETIAPINE 100MG TAB	n/a	3.20
LACTULOSE 10GM/15 SOL	n/a	0.18
ANTI-DANDRUF 1%	n/a	2.90
HYDROCERIN LOT	n/a	5.50
GERI-MOX SUS	n/a	3.21
DIPHENHYDRAMINE 25MG CAP	n/a	0.30
SUDOGEST 60MG TAB	n/a	0.45
DIPHENHYDRAMINE 50MG CAP	n/a	0.40
AMOXICILLIN 500MG CAP	n/a	0.13
QUETIAPINE 300MG TAB	n/a	10.09
NAPROXEN 500MG TAB	n/a	0.73
AMITRIPTYLINE 25MG TAB	n/a	0.41
TRAMADOL 50MG TAB	n/a	0.54
METFORMIN 500MG TAB	n/a	0.35
HYDROXYZ PAMOATE 25MG CAP	n/a	0.07
POLYETH GLYC 3350 NF POW	n/a	6.50
QUETIAPINE 200MG TAB	n/a	8.40
LISINOPRIL 10MG TAB	n/a	0.64
VENLAFAXINE 75MG TAB	n/a	1.40
HCTZ 25MG TAB	n/a	0.05
BENZTROPINE 1MG TAB	n/a	0.26
METFORMIN 1000MG TAB	n/a	0.94
CITALOPRAM 20MG TAB	n/a	1.74
BENAZEPRIL 10MG TAB	n/a	0.68
TRAZODONE 100MG TAB	n/a	0.75
SMZ/TMP DS 800-160 TAB	n/a	0.71
POLYETH GLYC 3350 NF POW	n/a	8.50
BUPROPION 75MG TAB	n/a	0.51
TRAZODONE 50MG TAB	n/a	0.59
AMLODIPINE 10MG TAB	n/a	.95

PRICE SHEET (CONTINUED)

Provide price <u>per capsule/tablet</u> for the following drugs (brand and generic):

Drug Name	Brand	Generic
QUETIAPINE 300MG TAB	n/a	9.50
ATRIPLA TAB	27.51	n/a
QUETIAPINE 100MG TAB	n/a	3.45
TRUVADA TAB	16.92	n/a
LANTUS 100/ML INJ	268	n/a
QUETIAPINE 200MG TAB	n/a	6.38
DULOXETINE 60MG CAP	n/a	1.52
REYATAZ 300MG CAP	15.65	n/a
OLANZAPINE 20MG TAB	n/a	5.15
COMPLERA TAB	n/a	96.48
OLANZAPINE 10MG TAB	n/a	4.15
QUETIAPINE 400MG TAB	n/a	9.50
LATUDA 40MG TAB	12.01	n/a
BUPROPION 100MG TAB	n/a	0.68
DIVALPROEX 500MG ER TAB	n/a	2.65
ABILIFY 10MG TAB	5.24	n/a
VALPROIC ACID 250MG CAP	n/a	0.54
ISENTRESS 400MG TAB	25.0	n/a
CYCLOPHOSPH 25MG TAB	n/a	6.08
INVEGA 9MG TAB	n/a	8.9
OLANZAPINE 5MG TAB	n/a	2.39
LATUDA 20MG TAB	12.04	n/a
OLANZAPINE 15MG TAB	n/a	5.41
HUMULIN R U-100 U-100 INJ	160.20	n/a
INVEGA 3MG TAB	n/a	5.94
VENTOLIN HFA AER	n/a	62.60
ABILIFY 5MG TAB	n/a	6.24
NORVIR 100MG TAB	9.24	n/a
ADVAIR DISKUS 250/50 AER	389.10	n/a
PROMETHAZINE HCL 25MG SUPR	n/a	6.28
EPINEPHRINE 0.3MG 2-PACK	n/a	300
INVEGA 6MG TAB	n/a	5.94
XIFAXAN 550MG TAB	15.60	n/a
PERMETHRIN 5% CRM	0.88	n/a
PREZISTA 800MG TAB	52.70	n/a

Please enter your password below and click Save to update your response.

Please be aware that typing in your password acts as your electronic signature, which is just as legal and binding as an

Supplier Response Form

Proposal References

List the last three (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this RFP package, were recently provided by Respondent.

Reference 1

Client Name: WILLIAMSON COUNTY JAIL

Location: SHERIFF'S OFFICE 306 WEST 4TH ST. GI

Contact Name: ABIGAIL DASS

Title: OFFICE SPECIALIST

Phone: 512.943.1370

E-mail ADASS@WILCO.ORG

Contract Date To: JULY 7, 2016

Contract Date From: JULY 7, 2017

Contract Value: $ $18,000

Scope of Work:

We provided medication and medical supplies to this facility.

Reference 2

Client Name: CITY OF HOUSTON-BARC UNIT

Location: 611 WALKER HOUSTON, TEX 77002

Contact Name: LAURA GUTHRIE

Title: PROCUREMENT SPECIALIST

Phone:

832.393.8735

E-mail

LAURAA.GUTHRIE@HOUSTONTX.GOV

Contract Date To:

SEPTEMBER 6, 2016

Contract Date From:

SEPTEMBER 6, 2019

Contract Value: $

$180,923

Scope of Work:

We provide medication and medical supplies for the City of Houston BARC unit.

Reference 3

Client Name:

UNIVERSITY OF TEXAS MEDICAL BRANC

Location:

2 FINANCIAL PLAZA HUNTSVILLE ,TEXAS

Contact Name:

HEDDI BONHAM

Title:

AQUISITION SPECIALIST

Phone:

936.437.6762

E-mail

HABONHAM@UTMB.EDU

Contract Date To:

JULY 5, 2015

Contract Date From:

ONGOING

Contract Value: $

UPWARDS OF $3.7 MILLION

Scope of Work:

We provide medications in blister cards and medical supplies for the residents at this drug

Please enter your password below and click Save to update your response.

Please be aware that typing in your password acts as your electronic signature, which is just as legal and binding as an original signature. (See Electronic Signatures in Global and National Commerce Act for more information.)

To take exception:

1) Click Take Exception.
2) Create a Word document detailing your exceptions.
3) Upload exceptions as an attachment to your offer on BidSync's system.

By completing this form, your bid has not yet been submitted. Please click on the place offer button to finish filling out your bid.

Username **newdimensionpharmacy@yahoo.com**

Password *

Save | Take Exception | Close

* Required fields

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

FORM CIQ

OFFICE USE ONLY

Date Received

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. *See* Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

1 Name of vendor who has a business relationship with local governmental entity.

none

2 [x] **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 Name of local government officer about whom the information is being disclosed.

none

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

[ ] Yes [x] No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

[ ] Yes [x] No

5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

none

6 [ ] Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7

Signature of vendor doing business with the governmental entity

9/16/17

Date

Form provided by Texas Ethics Commission www.ethics.state.tx.us Revised 11/30/2015

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
2017-261367

Date Filed:
09/15/2017

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

The Basileia Group, Inc. dba New Dimension Pharmacy
Houston, TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

Williamson County

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

1708-185
PHARMACEUTICAL SERVICES AND SUPPLIES

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary
HEATH, CARLOS	Houston, TX United States	X	

5 Check only if there is NO Interested Party. ☐

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said Carlos M. Heath, this the 18 day of September, 20 17, to certify which, witness my hand and seal of office.

NOTARY PUBLIC STATE OF TEXAS
RUDY PARRA
Notary Public, State of Texas
Comm. Expires 07-15-2019
Notary ID 124102639

Signature of officer administering oath | Rudy Parra — Printed name of officer administering oath | Notary — Title of officer administering oath

Forms provided by Texas Ethics Commission www.ethics.state.tx.us Version V1.0.3337

PROPOSAL AFFIDAVIT

This form must be completed, signed, notarized and returned with Proposal package

The undersigned certifies that the RFP and the Respondent's Proposal have been carefully reviewed and are submitted as correct and final. Respondent further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Proposal, and upon the conditions contained in the RFP.

I hereby certify that the foregoing Proposal has not been prepared in collusion with any other Respondent or other person or persons engaged in the same line of business prior to the official opening of this Proposal. Further, I certify that the Respondent is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Proposal on, or to influence any person or persons to submit a Proposal or not to submit a Proposal thereon."

Name of Respondent:	Dr. Carlos Heath, Pharm.D,MBA
Address of Respondent:	1102 Pinemont Ste.F Houston, Texas 77018
Email:	newdimensionpharmacy@yahoo.com
Telephone:	713.263.7680
Printed Name of Person Submitting Affidavit:	Dr. Carlos Heath, Pharm.D,MBA
Signature of Person Submitting Affidavit:	

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Proposal will in no way have a negative impact on the County's evaluation of the Proposal.

☒	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Respondent agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared Carlos Heath (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, Carlos Heath, (*Name of Signer*) am a duly authorized officer of/agent for The Basileia Group (*Name of Respondent*) and have been duly authorized to execute the foregoing on behalf of the said The Basileia Group (*Name of Respondent*).

SUBSCRIBED AND SWORN to before me by the above-named Carlos Heath

on this the 18 day of September, 2017.

Rudy Parra

Notary Public in and for

RUDY PARRA
Notary Public, State of Texas
Comm. Expires 07-15-2019
Notary ID 124102639

The State of Texas

The County of Harris

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

Supplier: **NEW DIMENSION PHARMACY**

Williamson County – Request for Proposal (RFP)

SECTION 1 - DEFINITIONS

Addendum/Addenda – means any written or graphic instruments issued by the County prior to the consideration of Proposals which modify or interpret the Proposal Documents by additions, deletions, clarifications, or corrections.

Agreement/Ensuing Agreement(s) – means the Successful Respondent may be required by the County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and the Respondent's Proposal. Such Ensuing Agreement(s) shall contain the Proposal specifications, terms and conditions that are derived from the RFP.

Contract – means this RFP and the Proposal of the Successful Respondent shall become a Contract between the Successful Respondent and the County once the Successful Respondent's Proposal is properly accepted by the Williamson County Commissioners Court (sometimes referred to herein as the Commissioner's Court").

Commissioner's Court – means the Williamson County Commissioners Court.

County – means Williamson County, a political subdivision of the State of Texas.

Executive Summary – means the document submitted by Respondent that represents a concise summary of the contents of the Proposal. It does not include any information concerning costs.

Proposal Documents – means the Legal Notice, RFP including attachments, and any Addenda issued by the County prior to the consideration of any Proposals.

Proposal – means the complete, properly signed document, and ALL required forms and documentation listed in the proposal package which have been submitted in accordance with this RFP package. A Proposal submitted in accordance with this RFP is irrevocable during the specified time period for evaluation and acceptance of Proposals, unless a waiver is obtained from the Williamson County Purchasing Agent.

Respondent – means a person or entity who submits a Proposal in response to this RFP.

Request for Proposals (RFP) – means this document, together with the attachments thereto and any future Addenda issued by the County.

Successful Respondent– means the responsible Respondent who, in the County's sole opinion, submits the Proposal which is in the best interest of the County, taking into account factors identified

herein, and to whom the County intends to award the Contract.

SECTION 2 - RESPONSE FORMAT AND SUBMISSION

2.1 INTRODUCTION

Each Proposal submitted in response to this RFP should clearly reference the numbered sections of this RFP that require a response. Failure to arrange the Proposal as requested may result in the disqualification of the Proposal.

Though there is not a page limit for Proposals, to save natural resources including paper, and to allow the County staff to efficiently evaluate all submitted Proposals, the County requests that Proposals be orderly, concise, but comprehensive in providing the requested information. Conciseness and clarity of content are emphasized and encouraged. If mailed or delivered in person, please limit additional, non requested information.

Please provide your Proposal response using:

A. 8 ½" x 11" pages, inclusive of any cover letter or supporting materials.

B. The least amount of plastic/laminate or other non-recyclable binding materials.

C. Single-sided printing.

Vague and general Proposals will be considered non-responsive, and may, at the County's sole discretion, result in disqualification. Proposals must be legible and complete. Failure to provide the required information may result in the disqualification of the Proposal. All pages of the Proposal should be numbered and the Proposal should contain an organized, paginated table of contents corresponding to the sections and pages of the Proposal.

2.2 ORGANIZATION OF PROPOSAL CONTENTS AND TABLE OF CONTENTS

Each Proposal should be submitted with a table of contents that clearly identifies and denotes the location of all enclosures of the Proposal. The table of contents should follow the RFP's structure as much as is practical.

Each Proposal should be organized in the manner described below:

A. Transmittal Letter. Please see Section 2.3, Transmittal Letter, for more information.

B. Table of Contents.

C. Executive Summary. Please see Section 2.4, Executive Summary.

D. Proposal Response to Criteria. (Please see the sections in this RFP package that list the Specifications & Cost Proposal, Experience and Qualifications, References, and Implementation Strategy to respond to our criteria in a clear and concise manner)

E. Price Sheet.

F. References: Identification of three (3) references within the last four (4) years, for which the Respondent is providing, or has provided, the goods and/or services (public sector) of the type requested in this RFP. Include the name, position/title, and telephone number of a contact person at each entity.

G. Conflict of Interest Questionnaire.

H. Proposal Affidavit (Signature Page).

I. Attach your entities sample Contract, if applicable, for the County's review and consideration. This should include any additional terms or conditions. The County is not required to use the sample Contract submitted.

2.3 TRANSMITTAL LETTER

The Respondent should submit a Transmittal Letter that provides the following information:

A. Name and address of individual or business entity submitting the Proposal.

B. Respondent's type of business entity (i.e., Corporation, General Partnership, Limited Partnership, LLC, etc.). See Section 3.5, Signature of Respondent, for more information.

C. Place of incorporation or organization, if applicable.

D. Name and location of major offices and other facilities that relate to the Respondent performance under the terms of this RFP.

E. Name, physical address, email address, business and fax number of the Respondent's principal contact person regarding all contractual matters relating to this RFP.

F. The Respondent's Federal Employer Identification Number.

G. A commitment by the Respondent to provide the services required by the County;

H. A statement that the Proposal is valid for the time specified on page three (3), under the section named *Prices Good for*, of this Proposal packet. Any Proposal containing a term of less than the required amount, may at the County's sole discretion, be rejected as non-responsive.

I. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.40, Air Quality for more information.

The Transmittal Letter should be signed by a person legally authorized to bind the Respondent to its representations in the Transmittal Letter and the Proposal. In the case of a joint Proposal, each party must sign the Transmittal Letter.

2.4 EXECUTIVE SUMMARY

The Respondent should provide an Executive Summary of its Proposal that asserts that the Respondent is providing in its response all of the requirements of this RFP. The Executive Summary should not include any information concerning the cost of the Proposal, but instead must represent a full and concise summary of the contents of the Proposal. It is recommended the Executive Summary include the following information:

A. Identify any goods and/or services that are provided beyond those specifically requested. If the Respondent is providing services and/or goods that do not meet the specific requirements of this RFP, but in the opinion of the Respondent are equivalent or superior to those specifically requested, any such differences should be noted in the Executive Summary. However, the Respondent must realize that failure to provide the goods and/or services specifically required, at the County's sole discretion, may result in disqualification of the Proposal.

B. Indicate why the Respondent believes that it is the most qualified Respondent to provide the services described in this RFP. The Successful Respondent must demonstrate extensive experience and understanding of the intent of this project. The Respondent should describe in detail the current and historical experience the Respondent and its subcontractors have that would be relevant to completing the project. References must contain the name of key personnel and telephone numbers for each contact, as described in Section 3.14, References.

C. Briefly state why the Respondent believes its proposed goods and/or services best meet the County's needs and RFP requirements, and the Respondent also should concisely describe any additional features, aspects, or advantages of its goods and/or services in any relevant area not covered elsewhere in its Proposal.

2.5 CONFLICT OF INTEREST

No public official shall have interest in a contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code, Title 5, Subtitle C, Chapter 171, as amended.

As of January 1, 2006, all Respondents are responsible for complying with Local Government Code, Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County's website at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en-US/Default.aspx

Each Respondent must disclose any existing or potential conflict of interest relative to the performance of the requirements of this RFP. **Examples of potential conflicts of interest may include an existing business or personal relationship between the Respondent, its principal, or any affiliate or subcontractor with the County or any other entity or person involved in any way with the project that is subject to this RFP**. Similarly, any personal or business relationship between the Respondent, the principals, or any affiliate or subcontractor with any employee, or official of the County or its suppliers must be disclosed. Any such relationship that might be perceived or represented as a conflict must be disclosed. Failure to disclose any such relationship or reveal personal relationships with the County employees or officials may be cause for termination.

The County will decide if an actual or perceived conflict should result in Proposal disqualification.

By submitting a Proposal in response to this RFP, all Respondents affirm they have not given, nor intend to give, at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a the County public servant or any employee, official or representative of same, in connection with this procurement.

Each Respondent must provide a Conflict of Interest Statement with their Proposal Package. Package may be deemed incomplete without this form.

2.6 CERTIFICATE OF INTERESTED PARTIES – FORM 1295

As of January 1, 2016, all Respondents are responsible for complying with the Texas Government Code, Section 2252.908. The law states that the County may not enter into certain contracts with a Respondent unless the Respondent submits a disclosure of interested parties to the County at the time the Respondent submits the signed contract. The law applies only to a contract of the County on or after January 1, 2016 that either:

A. Requires an action or vote by the Commissioners Court before the contract may be signed (all contracts that fall under the jurisdiction of the Commissioners Court approval, such as contracts resulting from an Initiation for Bid (IFB), RFP, Request for Qualifications (RFQ), etc., excluding,

but not limited to, certain Juvenile Service contracts, contracts funded with Sheriff's seized fun monies, etc.); or

B. Has a value of at least $1,000,000.

By January 1, 2016, the Texas Ethics Commission will make available on its website, a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

A Respondent must:

A. Use the online application to process the required information on Form 1295.

B. Print a copy of the form which will contain a unique certification number.

C. An authorized agent of the Respondent must sign the printed copy of the form.

D. Have the form notarized.

E. File the completed Form 1295 and certification of filing (scanning and emailing form is sufficient) with Williamson County Purchasing Agent at the time the signed Contract is submitted for approval.

After the Commissioners Court award of the contract, the County shall notify the Texas Ethics Commission, using the Texas Ethics Commission's filing application, of the receipt of the filed Form 1295 and certification of filing not later than the 30th day after the date the contract binds all parties to the contract. The Texas Ethics Commission will post the completed Form 1295 to its website within seven business days after receiving notice from the County.

2.7 PROPOSAL SUBMITTAL DEADLINE

The Proposal is due no later than the submittal date and time set forth in the Public Announcement and General Information listed in this RFP package. Contents of each Proposal shall be submitted in accordance with this RFP.

2.8 ETHICS

The Respondent shall not accept or offer gifts or anything of value, nor enter into any business arrangement with any employee, official or agent of the County.

2.9 DELIVERY OF PROPOSALS

The County uses BidSync to distribute and receive bids and Proposals. It is preferred that Proposals be submitted electronically through BidSync; however, Respondents can submit a hard copy.

Refer to www.bidsync.com for further information on how to submit electronically.

If mailed or delivered in person, Proposal and Proposal Addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed in this RFP package, to:

Williamson County Purchasing Department

Attn: **Proposal Name and Number**
901 South Austin Avenue
Georgetown, Texas 78626

Also, all Respondents should list their Name and Address, and the Date of the Proposal opening on the outside of the box or envelope and note "Sealed Proposal Enclosed." Williamson County will not accept any Proposals after the submittal deadline, and shall return such Proposals unopened to the Respondent. The County will not accept any responsibility for Proposals being delivered by third party carriers.

Proposals will be opened publicly; however, in a manner to avoid public disclosure of contents, only names of Respondents will be read aloud: no pricing will be announced at the opening.

SECTION 3 - INSTRUCTIONS AND GENERAL REQUIREMENTS

3.1 INSTRUCTIONS

Read this document carefully, and follow all instructions and requirements. All Respondents are responsible for fulfilling all requirements and specifications. Be sure to have a clear understanding of this RFP.

General requirements apply to all advertised RFPs; however, these may be superseded, in whole or in part, by the proposal specifications, Addenda and modifications issued as a part of this RFP. Be sure your Proposal package is complete.

3.2 AMBIGUITY, CONFLICT, OR OTHER ERRORS IN THIS RFP

If a Respondent discovers any ambiguity, conflict, discrepancy, omission or other error in this RFP, the Respondent shall immediately notify the County Purchasing Department of such error in writing and request modification or clarification of the document.

Modifications will be made by issuing Addenda. If the Respondent fails to notify the County prior to the date and time fixed for submission of Proposals of an error or ambiguity in the RFP known to the Respondent, or an error or ambiguity that reasonably should have been known to the Respondent, then the Respondent shall be deemed to have waived the error or ambiguity or its later resolution.

The County may also modify the RFP, no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals, by issuance of an Addendum. All Addenda will be numbered consecutively, beginning with one (1).

3.3 NOTIFICATION OF MOST CURRENT ADDRESS

All Respondents in receipt of this RFP shall notify the Williamson County Purchasing Department of any address changes, contact person changes, and/or telephone number changes no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals.

3.4 SIGNATURE OF RESPONDENT

A Transmittal Letter, which shall be considered an integral part of the Proposal as stated in Section 2.3, Transmittal Letter, shall be signed by an individual who is authorized to bind the Respondent contractually.

A. If the Respondent is a Corporation or Limited Liability Company, the legal name of the Corporation or Limited Liability Company shall be provided together with the signature of the officer or officers authorized to sign on behalf of such entity.

B. If the Respondent is a General Partnership, the true name of the firm shall be provided with the signature of each partner authorized to sign.

C. If the Respondent is a Limited Partnership, the name of the Limited Partner's General Partner shall be provided with the signature of the officer authorized to sign on behalf of the General Partner.

D. If the Respondent is a Sole Proprietor(s) (individual), each Sole Proprietor(s) shall sign.

E. If signature is by an agent, other than the Sole Proprietor(s) or an officer of a Corporation, Limited

Liability Company, General Partner or a member of a General Partnership, a power of attorney equivalent document must be submitted to the Williamson County Purchasing Department.

3.5 ASSUMED BUSINESS NAME

If the Respondent operates business under an Assumed Business Name, the Respondent must have file with the Williamson County Clerk a current Assumed Name Certificate and provide a file marked copy of same prior to contract award.

3.6 ECONOMY OF PRESENTATION

Proposals should not contain promotional or display materials, except as they may directly answer in whole or in part questions contained in the RFP. Such exhibits shall be clearly marked with the applicable reference number of the question in the RFP. Proposals must address the technical requirements as specified in the RFP. All questions posed by the RFP must be answered concisely and clearly. Proposals that do not address each criterion may be, at the sole discretion of the County, rejected and not considered.

3.7 PROPOSAL OBLIGATION

The contents of the RFP, Proposal, and any clarification thereof submitted by the Successful Respondent shall become part of the contractual obligation and incorporated by reference into the Contract and any Ensuing Agreement(s).

3.8 COMPLIANCE WITH RFP SPECIFICATIONS

It is intended that this RFP describe the requirements and the Proposal format in sufficient detail to secure comparable Proposal. Failure to comply with all provisions of the RFP may, at the sole discretion of the County, result in disqualification.

3.9 EVALUATION

The County reserves the right to use all pertinent information (also learned from sources other than disclosed in the RFP process) that might affect the County's judgment as to the appropriateness of award to the best evaluated Respondent. This information may be appended to the Proposal evaluation process results. Information on a Respondent from reliable sources, and not within the Respondent Proposal, may also be noted and made part of the evaluation file. The County shall have sole discretion for determining the reliability of the source. The County reserves the right to conduct written and/or oral discussions/interviews after the Proposal opening. The purpose of such discussions/interviews is to provide clarification and/or additional information to make an award that is in the best interest of the County.

3.10 WITHDRAWAL OF PROPOSAL

The Respondent may withdraw its Proposal by submitting a written request with the company letterhead and the signature of an authorized individual, as described in Section 3.4, Signature of Respondent, to the Williamson County Purchasing Department any time prior to the submission deadline.

The Respondent may submit a new Proposal prior to the deadline. Alterations of the Proposal in any manner will not be considered if submitted after the deadline. Withdrawal of a Proposal after the deadline will be subject to written approval of the Williamson County Purchasing Agent.

3.11 RESPONSIBILITY

It is expected that a Respondent will be able to affirmatively demonstrate responsibility. A prospective Respondent should be able to meet the following requirements:

A. Have adequate financial resources, or the ability to obtain such resources as required;
B. Be able to comply with the required or proposed delivery schedule;
C. Have a satisfactory record of performance that can be determined thru references provided; and
D. Be otherwise qualified and eligible to receive an award.

The County may request representation and other information sufficient to determine the Respondent ability to meet these minimum standards listed above.

3.12 PURCHASE ORDERS

If required by the Williamson County Purchasing Department, a purchase order(s) may be generated to the Successful Respondent for goods and/or services. If a purchase order is issued, the purchase order number must appear on all itemized invoices and/or requests for payment.

3.13 SILENCE OF SPECIFICATIONS

The apparent silence of any RFP specifications as to any detail or to the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

3.14 REFERENCES

Respondents shall furnish a list of contracts where similar responsibilities and goods and/or services have been required and/or performed for the past five (5) years, to include names, titles, phone numbers and email addresses of reference contacts, contract numbers and dates of performance.

Also, Respondents shall include a list of any contracts that have been cancelled or terminated within the last five (5) years, along with an explanation of the cancellation and the names, email address and phone number of a reference person with that institution.

The County may contact some or all of the references in order to determine the Respondent performance record on work similar to that described in this RFP. The County reserves the right to contact references other than those provided in the response and to use the information gained from them in the evaluation process.

References should be provided in accordance with this RFP. Proposal may not be deemed complete without the inclusion of requested references.

SECTION 4 - TERMS AND CONDITIONS

4.1 VENUE AND GOVERNING LAW

The Respondent hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this RFP, the Contract and any Ensuing Agreement(s), shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this RFP, the Contract and any Ensuing Agreement(s) is governed by the laws of the United States, this RFP, the Contract and any Ensuing Agreement(s) shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

4.2 INCORPORATION BY REFERENCE AND PRECEDENCE

A. The Contract shall be derived from the RFP and its Addenda (if applicable), and the Respondent Proposal. In the event of a dispute under the Contract, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The RFP and its Addenda (if applicable); and

   2. The Respondent's Proposal.

B. In the event the County requires that an Ensuing Agreement be executed following award and a dispute arises between the terms and conditions of the Ensuing Agreement, the RFP and its Addenda (if applicable), and the Respondent's Proposal, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The terms and conditions of the Ensuing Agreement;

   2. The RFP and its Addenda; and

   3. The Respondent's Proposal.

4.3 OWNERSHIP OF PROPOSAL

Each Proposal shall become the property of the County upon submittal and will not be returned to Respondents unless received after the submittal deadline.

4.4 DISQUALIFICATION OF RESPONDENT

Upon signing and submittal of the Proposal, a Respondent offering to sell supplies, materials, services, or equipment to the County, certifies that the Respondent has not violated the antitrust laws of the State of Texas codified in Business & Commerce Code, Section 15.01, or the Federal Antitrust Laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged such line of business. Any or all Proposals may be rejected if the County believes that collusion exists among the Respondents.

4.5 FUNDING

The County intends to budget and make sufficient funds available and authorize funds for expenditure to finance the costs of the Contract. All Respondents understand and agree that the County's payment of

amounts under the Contract shall be contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to make payments under this Contract.

4.6 ASSIGNMENT, SUCCESSORS AND ASSIGNS

The Successful Respondent may not assign, sell, or otherwise transfer the Contract or any other rights or interests obtained under the Contract without written permission of the Williamson County the Commissioners Court. The Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the contracting parties hereto and their respective successors and permitted assigns.

4.7 IMPLIED REQUIREMENTS

Products or services not specifically described or required in the RFP, but are necessary to provide the functional capabilities described by the Respondent, shall be implied and deemed to be included in the Proposal.

4.8 TERMINATION

A. **Termination for Cause:** The County reserves the right to terminate the Contract and/or any Ensuing Agreement(s) for default if the Successful Respondent breaches any of the Proposal specifications, terms and conditions, including warranties of the Respondent, if any, or if the Successful Respondent becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies the County may have at law or equity or as may otherwise be provided hereunder. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all other requirements to the County's satisfaction, and/or to meet all other obligations and requirements.

B. **Termination for Convenience:** The County may terminate the Contract and/or any Ensuing Agreement(s) for convenience and without cause or further liability, upon no less than thirty (30) calendar days written notice to the Successful Respondent. The County reserves the right to extend this period if it is in the best interest of the County. In the event the County exercises its right to terminate without cause, it is understood and agreed that only the amounts due to the Successful Respondent for goods, commodities and/or services provided and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for the County's termination for convenience.

4.9 NON-PERFORMANCE

It is the objective of the County to obtain complete and satisfactory performance of the requirements set forth herein. In addition to any other remedies available at law, in equity or that may be set out herein, failure to perform may result in a deduction of payment equal to the amount of the goods and/or services that were not provided and/or performed to the County's satisfaction.

In the event of such non-performance, the County shall have the right, but shall not be obligated, to complete the services itself or by others and/or purchase the goods from other sources. If the County elects to acquire the goods or perform the services itself or by others, pursuant to the foregoing, the Successful Respondent shall reimburse the County, within ten (10) calendar days of demand, for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting the nonperformance which the Successful Respondent fails to meet pursuant to the requirements set out herein. In the event the Successful Respondent refuses to reimburse the County as set out in this provision, the County shall have the right to deduct such reimbursement amounts from any amounts that may be then owing or that may become owing in the future to the Successful Respondent.

4.10 PROPRIETARY INFORMATION AND THE TEXAS PUBLIC INFORMATION ACT

All material submitted to the County shall become public property and subject to the Texas Public Information Act upon receipt. If a Respondent does not desire proprietary information in the Proposal to be disclosed, each page must be clearly identified and marked proprietary at time of submittal or, more preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary. Failure to clearly identify and mark information as being proprietary as set forth under this provision will result in all unmarked information being deemed non-proprietary and available to the public. For all information that has not been clearly identified and marked as proprietary by the Respondent, the County may choose to place such information on the County's website and/or a similar public database without obtaining any type of prior consent from the Respondent.

The County will, to the extent allowed by law, endeavor to protect from public disclosure the information that has been identified and marked as proprietary. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General.

To the extent, if any, that any provision in this RFP or in the Respondent's Proposal is in conflict with Texas Government Code, Chapter 552, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood, and agreed, that the County, and its officers and employees, may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to the County as to whether or not the same are available to the public. It is further understood that that the County, and its officers and employees, shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that the County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to the County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

4.11 RIGHT TO AUDIT

The Successful Respondent agrees that the County or its duly authorized representatives shall, until the expiration of three (3) years after termination or expiration of the services to be performed, have access to and the right to examine and photocopy any and all books, documents, papers and records of the Successful Respondent, which are directly pertinent to the services to be performed or goods to delivered for the purposes of making audits, examinations, excerpts and transcriptions. The Successful Respondent agrees that the County shall have access during normal working hours to all necessary facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give the Successful Respondent reasonable advance notice of intended audits.

4.12 TESTING AND INSPECTIONS

The County reserves the right to inspect and test equipment, supplies, materials and goods for quality and compliance with this RFP, and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the County can deem the Respondent to be in breach and terminate the Contract and/or any Ensuing Agreement(s).

4.13 PROPOSAL PREPARATION COSTS

The cost of developing Proposals is the sole responsibility of the Respondents and shall not be charged to the County. There is no expressed or implied obligation for the County to reimburse the Respondents for any expense incurred in preparing a Proposal in response to this RFP and the County will not reimburse the Respondents for such expenses.

4.14 INDEMNIFICATION

The Successful Respondent shall indemnify, defend and save harmless, the County, its officials, employees, agents and agent's employees from, and against, all claims, liability, and expenses including reasonable attorneys' fees, arising from activities of the Respondent, its agents, servants or employees, performed hereunder that result from the negligent act, error, or omission of the Respondent or any of the Respondent's agents, servants or employees, as well as all claims of loss or damage to the Respondent's and the County's property, equipment, and/or supplies.

Furthermore, the County, its officials, employees, agents and agents' employees shall not be liable for damages to the Successful Respondent arising from any act of any third party, including, but not limited to, theft. The Successful Respondent further agrees to indemnify, defend and save harmless, the County from its officials, employee, agents and agents' employees against all claims of whatever nature arising from any accident, injury, or damage whatsoever, caused to any person, or the property of any person, occurring in relation to the Successful Respondent's performance of any services requested hereunder during the term of the Contract and/or any Ensuing Agreement(s).

The Successful Respondent shall timely report all claims, demands, suits, actions, proceedings, liens or judgements to the County and shall, upon the receipt of any claim, demand, suit, action, proceeding, lien or judgement, not later than the fifteenth (15th) day of each month; provide the County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of the County required by the Successful Respondent in the defense of each matter. The Successful Respondent's duty to defend, indemnify and hold the County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of the Contract and/or any Ensuing Agreement(s), unless otherwise agreed by the County in writing. The provisions of this section shall survive the termination of the Contract and shall remain in full force and effect with respect to all such matters no matter when they arise.

In the event of any dispute between the parties, as to whether a claim, demand, suit, action, proceeding, lien or judgement, that appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of the County, the Respondent shall nevertheless fully defend such claim, demand, suit or action, proceeding, lien or judgement, until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of the Respondent are not an issue in the matter.

The Successful Respondent's indemnification shall cover, and the Successful Respondent agrees to, indemnify the County, in the event the County is found to have been negligent for having selected the Successful Respondent to perform the work described in this request. The provision by the Successful Respondent of insurance shall not limit the liability of the Successful Respondent under the Contract and/or any Ensuing Agreement(s).

4.15 WAIVER OF SUBROGATION

The Successful Respondent and the Successful Respondent's insurance carrier waive any and all rights whatsoever with regard to subrogation against the County as an indirect party to any suit arising out of personal or property damages resulting from the Respondent's performance under this Contract and any Ensuing Agreement(s).

4.16 RELATIONSHIP OF THE PARTIES

The Successful Respondent shall be an independent contractor and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions herein which may appear to give the County the right to direct the Successful Respondent as to details of doing work herein covered, or to exercise a measure of control over the work, shall be deemed to mean that the Successful Respondent shall follow the desires of the County in the results of the work only. The County shall not retain or have the right to control the Successful Respondent's means, methods or

details pertaining to the Successful Respondent's performance of the work. The County and the Successful Respondent hereby agree and declare that the Successful Respondent is an independent contractor and as such meets the qualifications of an "Independent Contractor" under Texas Workers Compensation Act, Texas Labor Code, Section 406.141, that the Successful Respondent is not an employee of the County, and that the Successful Respondent and its employees, agents and subcontractors shall not be entitled to workers compensation coverage or any other type of insurance coverage held by the County.

4.17 SOLE PROVIDER

The Successful Respondent agrees and acknowledges that it shall not be considered a sole provider of the goods and/or services described herein and that the County may contract with other providers of such goods and/or services if the County deems, at its sole discretion, that multiple providers of the same goods and/or services will serve the best interest of the County.

4.18 FORCE MAJEURE

If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

4.19 SEVERABILITY

If any provision of this RFP, the Contract or any Ensuing Agreement(s) shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision thereof, but rather the entire RFP, Contract or any Ensuing Agreement (s) will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this RFP, the Contract or any Ensuing Agreement(s) is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this RFP, the Contract or any Ensuing Agreement(s) and be deemed to be validated and enforceable.

4.20 EQUAL OPPORTUNITY

Neither party shall discriminate against any employee or applicant for employment because of race, color, sex, religion or national origin.

4.21 NOTICE

Any notice to be given shall be in writing and may be distributed by personal delivery, or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

The County: Williamson County Purchasing Department
Attn: Purchasing Agent
901 South Austin Avenue
Georgetown, Texas 78626

The Respondent: Address set out in Respondent's Transmittal Letter

Notices given in accordance with this provision shall be effective upon (1) receipt by the party to which notice is given, or (2) on the third (3rd) calendar day following mailing, whichever occurs first.

4.22 SALES AND USE TAX EXEMPTION

The County is a body, corporate and politic, under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code, Section 151.309, as amended, and the services and/or goods subject hereof are being secured for use by the County.

4.23 COMPLIANCE WITH LAWS

The County and the Successful Respondent shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any Ensuing Agreement(s), including, without limitation, Workers' Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the Successful Respondent shall furnish the County with certification of compliance with said laws, statues, ordinances, rules, regulations, orders, and decrees above specified.

4.24 INCORPORATION OF EXHIBITS, APPENDICES AND ATTACHMENTS

All of the Exhibits, Appendices and Attachments referred to herein are incorporated by reference as if set forth verbatim herein. Any conflicting terms in the Contract documents will be resolved at the sole discretion of the Commissioners Court.

4.25 NO WAIVER OF IMMUNITIES

Nothing herein shall be deemed to waive, modify or amend any legal defense available at law or in equity to the County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. The County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

4.26 NO WAIVER

The failure or delay of any party to enforce at any time or any period of time any of the provisions of this RFP, the Contract or any Ensuing Agreement(s) shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

4.27 CURRENT REVENUES

The obligations of the parties under the Contract and any Ensuing Agreement(s) do not constitute a general obligation or indebtedness of the County for which the County is obligated to levy, pledge, or collect any of taxation. It is understood and agreed that the County shall have the right to terminate the Contract and any Ensuing Agreement(s) at the end of any the County fiscal year if the governing body of the County does not appropriate sufficient funds as determined by the County's budget for the fiscal year in question. The County may effect such termination by giving written notice of termination to t Successful Respondent at the end of its then-current fiscal year.

4.28 BINDING EFFECT

This Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the parties and their respective permitted assigns and successors.

4.29 ASSIGNMENT

The Successful Respondent's interest and duties hereunder may not be assigned or delegated to a third party without the express written consent of the County.

4.30 SAFETY

The Successful Respondent is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with any services to be provided hereunder. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

4.31 GENERAL OBLIGATIONS AND RELIANCE

The Successful Respondent shall perform all services and/or provide all goods, as well as those reasonably inferable and necessary for completion and provision of services and/or goods required hereunder. The Successful Respondent shall keep the County informed of the progress and quality the services. The Successful Respondent agrees and acknowledges that the County is relying on the Successful Respondent's represented expertise and ability to provide the goods and/or services described herein. The Successful Respondent agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of the County in accordance with the County's requirements and procedures. The Successful Respondent's duties, as set forth herein, shall at no time be in any way diminished by reason of any approval by the County, nor shall the Successful Respondent be released from any liability reason of such approval by the County, it being understood that the County at all times is ultimately relying upon the Successful Respondent's skill and knowledge in performing the services and providing any goods required hereunder.

4.32 CONTRACTUAL DEVELOPMENT

The Commissioners Court may award the Contract on the basis of the initial Proposals received, without any further or additional discussions. Therefore, each initial Proposal should contain the Respondent best terms and offer. The contents of the RFP and the selected Proposal will become an integral part of the Contract, but may be modified, at Williamson County's sole discretion, by provisions of an Ensuing Agreement. Therefore, the Respondent must agree to inclusion in an Ensuing Agreement of t Proposal specifications, terms and conditions of this RFP. Williamson County may, at its discretion, opt to conduct further discussions with responsible offerors and request the highest ranked firm's Best and Final Offer (BAFO).

4.33 ENTIRE AGREEMENT

The Contract and any Ensuing Agreement(s) shall supersede all prior Agreements, written or oral between the Successful Respondent and the County and shall constitute the entire Agreement and understanding between the parties with respect to the services and/or goods to be provided. Each of the provisions herein shall be binding upon the parties and may not be waived, modified, amended or altered, except by writing signed by the Successful Respondent and the County.

4.34 SURVIVABILITY

All applicable agreements that were entered into between the Successful Respondent and the County, under the terms and conditions of the Contract and/or any Ensuing Agreement(s), shall survive the expiration or termination thereof for ninety (90) days unless a new contract has been awarded.

The County may exercise, by written notice to the Successful Respondent no later than ten (10) calendar days of the Contract expiration, this clause for emergency cases only.

4.35 PAYMENT

The County's payment for goods and services shall be governed by the Texas Government Code, Chapter 2251. An invoice shall be deemed overdue the thirty-first (31st) day after the later of the following:

A. The date the County receives the goods under the Contract;
B. The date the performance of the service under the Contract is completed; or
C. The date the Williamson County Auditor receives an invoice for the goods or services.

Interest charges for any overdue payments shall be paid by the County in accordance with Texas Government Code, Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of the County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one (1) percent and the prime rate published in the Wall Street Journal on the first (1st) day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by the Successful Respondent, the County shall notify the Successful Respondent of the error not later than the twenty-first (21st) day after the date the County receives the invoice. If the error is resolved in favor of the Successful Respondent, the Successful Respondent shall be entitled to receive interest on the unpaid balance of the invoice submitted by the Successful Respondent beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, the Successful Respondent shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by the Texas Government Code, Chapter 2251, if the corrected invoice is not paid by the appropriate date.

As a minimum, invoices shall include:

A. Name, address, and telephone number of the Successful Respondent and similar information in the event the payment is to be made to a different address.

B. The County Contract, Purchase Order.

C. Identification of items or service as outlined in the Contract.

D. Quantity or quantities, applicable unit prices, total prices and total amount.

E. Any additional payment information which may be called for by the Contract.

Payment inquiries should be directed to the following address:

Williamson County Auditor's Office, Accounts Payable Department
Email: accountspayable@wilco.org
Phone: 512-943-1500

4.36 CONTRACTUAL FORMATION AND ENSUING AGREEMENT

The RFP and the Respondent's Proposal, when properly accepted by the Commissioners Court, shall constitute a Contract equally binding between the Successful Respondent and the County. The Successful Respondent may be required by Williamson County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and Respondent's Proposal.

4.37 LEGAL LIABILITY INFORMATION

The Successful Respondent shall disclose all legal liability information by listing any pending litigation anticipated litigation that your firm is involved in including, but not limited to, potential or actual legal matters with private parties and any local, state, federal or international governmental entities. The County reserves the right to consider legal liability information in the recommendation of any proposed contract to the Commissioners Court.

4.38 CONFIDENTIALITY

Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

4.39 INCLEMENT WEATHER

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a Proposal submission deadline, the Proposal closing will automatically be postponed until the next business day the County is open. If inclement weather conditions or any other unforeseen event causes delays in carrier service operations, the County may issue an Addendum to all known Respondents interested in the project to extend the deadline. It will be the responsibility of the Respondent to notify the County of their interest in the project if these conditions are impacting their ability to turn in a submission within the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

4.40 AIR QUALITY

In determining the overall best Proposal, the County may, to the extent applicable, exercise the option granted to local governments under the Texas Local Government Code, Section 271.907.

This option allows the County to evaluate Proposals and give preference to goods and/or services of Respondent that demonstrates that the Respondent meets or exceeds any and all state or federal environmental standards, including voluntary standards, relating to air quality. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. All Respondents are expected to meet all mandated state and federal air quality standards.

4.41 COOPERATIVE PURCHASING PROGRAM

During the term of the Contract resulting from this RFP, the County would like to afford the same prices, terms and conditions to other political subdivisions or public entities. Another entity's participation in the Contract resulting from this RFP is subject to a properly authorized Purchasing Cooperative Inter-local Agreement (ILA) with the County. Any liability created by purchase orders issued against the Contract shall be the sole responsibility of the governmental agency placing the order.

4.42 CONFIDENTALITY

The Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

Supplier: **NEW DIMENSION PHARMACY**

Proposal References

List the last three (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this RFP package, were recently provided by Respondent.

Reference 1

Client Name: **WILLIAMSON COUNTY JAIL**

Location: **SHERIFF'S OFFICE 306 WEST 4TH ST. GEORGETOWN, TEXAS 78626**

Contact Name: **ABIGAIL DASS**

Title: **OFFICE SPECIALIST**

Phone: **512.943.1370**

E-mail **ADASS@WILCO.ORG**

Contract Date To: **JULY 7, 2016**

Contract Date From: **JULY 7, 2017**

Contract Value: $ **$18,000**

Scope of Work:

We provided medication and medical supplies to this facility.

Reference 2

Client Name: **CITY OF HOUSTON-BARC UNIT**

Location: **611 WALKER HOUSTON, TEX 77002**

Contact Name: **LAURA GUTHRIE**

Title: **PROCUREMENT SPECIALIST**

Phone: **832.393.8735**

E-mail **LAURAA.GUTHRIE@HOUSTONTX.GOV**

Contract Date To: **SEPTEMBER 6, 2016**

Contract Date From: **SEPTEMBER 6, 2019**

Contract Value: $ **$180,923**

Scope of Work:

We provide medication and medical supplies for the City of Houston BARC unit.

Reference 3

Client Name: Location:

UNIVERSITY OF TEXAS MEDICAL BRANCH CORRECTIONAL MANAGED CARE UNIT PLAZA HUNTSVILLE ,TEXAS 77340 **2 FINANCIAL**

Contact Name: Title:

HEDDI BONHAM **AQUISITION SPECIALIST**

Phone: E-mail

936.437.6762 **HABONHAM@UTMB.EDU**

Contract Date To: Contract Date From: Contract Value: $

JULY 5, 2015 **ONGOING** **UPWARDS OF $3.7 MILLION**

Scope of Work:

We provide medications in blister cards and medical supplies for the residents at this drug rehabilitation facility.

Supplier: **NEW DIMENSION PHARMACY**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

This questionnaire is being filed in accordance with chapter 176 of the Local Government Code by a person doing business with the governmental entity.

By law this questionnaire must be filed with the records administrator of the local government not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1	**Name of person doing business with local governmental entity.**	
2	☐	**Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than September 1 of the year for which an activity described in Section 176.006(a), Local Government Code, is pending and not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)
3	**Describe each affiliation or business relationship with an employee or contractor of the local governmental entity who makes recommendations to a local government officer of the local governmental entity with respect to expenditure of money.**	
4	**Describe each affiliation or business relationship with a person who is a local government officer and who appoints or employs a local government officer of the local governmental entity that is the subject of this questionnaire.**	

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ
Page 2

5	**Name of local government officer with whom filer has affiliation or business relationship.**

	(Complete this section only if the answer to A, B, or C is YES.) This section, item 5 including subparts A, B, C & D, must be completed for each officer with whom the filer has affiliation or other relationship. Attach additional pages to this Form CIQ as necessary. A. Is the local government officer named in this section receiving or likely to receive taxable income from the filer of the questionnaire? ☐ Yes ☐ No
	B. Is the filer of the questionnaire receiving or likely to receive taxable income from or at the direction of the local government officer named in this section AND the taxable income is not from the local governmental entity? ☐ Yes ☐ No C. Is the filer of this questionnaire affiliated with a corporation or other business entity that the local government officer serves as an officer or director, or holds an ownership of 10 percent or more? ☐ Yes ☐ No D. Describe each affiliation or business relationship. **6. Describe any other affiliation or business relationship that might cause conflict of interest:**
7	**newdimensionpharmacy@yahoo.com**
	Signature of person doing business with the governmental entity — Date
	Signature not required if completing in BIDSYNC electronically.

Supplier: **NEW DIMENSION PHARMACY**

PROPOSAL AFFIDAVIT

This form must be completed, signed, notarized and returned with Proposal package

The undersigned certifies that the RFP and the Respondent's Proposal have been carefully reviewed and are submitted as correct and final. Respondent further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Proposal, and upon the conditions contained in the RFP.

I hereby certify that the foregoing Proposal has not been prepared in collusion with any other Respondent or other person or persons engaged in the same line of business prior to the official opening of this Proposal. Further, I certify that the Respondent is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Proposal on, or to influence any person or persons to submit a Proposal or not to submit a Proposal thereon."

Name of Respondent:	
Address of Respondent:	
Email:	
Telephone:	
Printed Name of Person Submitting Affidavit:	
Signature of Person Submitting Affidavit:	

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Proposal will in no way have a negative impact on the County's evaluation of the Proposal.

☐	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Respondent agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, , (*Name of Signer*) am a duly authorized officer of/agent for (*Name of Respondent*) and have been duly authorized to execute the foregoing on behalf of the said (*Name of Respondent*).

SUBSCRIBED AND SWORN to before me by the above-named
on this the day of , 20.

Notary Public in and for

The State of

The County of **newdimensionpharmacy@yahoo.com**

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

Supplier: **NEW DIMENSION PHARMACY**

PRICE SHEET

The undersigned Respondent, having become familiar with this RFP agrees to furnish the services and/or goods in accordance with this RFP at the following rate(s).

Please provide AWP Plus/Minus % Discount in blanks provided below and complete the 2 pages of Drug Brand/Generic price sheets with Per/Capsule-Pill pricing.

Proposer shall provide current Average Wholesale Price (AWP) minus a percentage (%) discount plus a dispensing fee (if applicable).

BRAND NAME MEDICATIONS

Minus Percent (%) Discount

Dispensing Fee (if applicable) 0

GENERIC MEDICATIONS

Minus Percent (%) Discount

Dispensing Fee (if applicable)

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
VALPROIC ACID 250MG CAP		
HYDROXYZINE PAM 50MG CAP		
BUPROPION 100MG TAB		
LITHIUM CARB 300MG CAP		
QUETIAPINE 100MG TAB		
LACTULOSE 10GM/15 SOL		
ANTI-DANDRUF 1%		
HYDROCERIN LOT		
GERI-MOX SUS		
DIPHENHYDRAMINE 25MG CAP		
SUDOGEST 60MG TAB		
DIPHENHYDRAMINE 50MG CAP		
AMOXICILLIN 500MG CAP		
QUETIAPINE 300MG TAB		
NAPROXEN 500MG TAB		
AMITRIPTYLINE 25MG TAB		
TRAMADOL 50MG TAB		
METFORMIN 500MG TAB		
HYDROXYZ PAMOATE 25MG CAP		
POLYETH GLYC 3350 NF POW		
QUETIAPINE 200MG TAB		
LISINOPRIL 10MG TAB		
VENLAFAXINE 75MG TAB		
HCTZ 25MG TAB		
BENZTROPINE 1MG TAB		
METFORMIN 1000MG TAB		
CITALOPRAM 20MG TAB		
BENAZEPRIL 10MG TAB		
TRAZODONE 100MG TAB		
SMZ/TMP DS 800-160 TAB		
POLYETH GLYC 3350 NF POW		
BUPROPION 75MG TAB		
TRAZODONE 50MG TAB		
AMLODIPINE 10MG TAB		

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
QUETIAPINE 300MG TAB		
ATRIPLA TAB		
QUETIAPINE 100MG TAB		
TRUVADA TAB		
LANTUS 100/ML INJ		
QUETIAPINE 200MG TAB		
DULOXETINE 60MG CAP		
REYATAZ 300MG CAP		
OLANZAPINE 20MG TAB		
COMPLERA TAB		
OLANZAPINE 10MG TAB		
QUETIAPINE 400MG TAB		
LATUDA 40MG TAB		
BUPROPION 100MG TAB		
DIVALPROEX 500MG ER TAB		
ABILIFY 10MG TAB		
VALPROIC ACID 250MG CAP		
ISENTRESS 400MG TAB		
CYCLOPHOSPH 25MG TAB		
INVEGA 9MG TAB		
OLANZAPINE 5MG TAB		
LATUDA 20MG TAB		
OLANZAPINE 15MG TAB		
HUMULIN R U-100 U-100 INJ		
INVEGA 3MG TAB		
VENTOLIN HFA AER		
ABILIFY 5MG TAB		
NORVIR 100MG TAB		
ADVAIR DISKUS 250/50 AER		
PROMETHAZINE HCL 25MG SUPR		
EPINEPHRINE 0.3MG 2-PACK		
INVEGA 6MG TAB		
XIFAXAN 550MG TAB		
PERMETHRIN 5% CRM		
PREZISTA 800MG TAB		**newdimensionpharmacy@yahoo.com**

Diamond Drugs, Inc.

Bid Contact **Steven M Heidenthal**
proposal@diamondpharmacy.com
Ph 724-349-1111
Fax 724-599-3509

Address **645 Kolter Drive**
Indiana, PA 15701

Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch.	Docs
1708-185--01-01	Please attach all documents to this line	**Supplier Product Code:**	**First Offer -**	1 / each	**Y**	**Y**

Supplier Total $0.00

Diamond Drugs, Inc.

Item: **Please attach all documents to this line**

Attachments

Diamond Proposal to Williamson Co TX 20170918.pdf

Williamson TX Bid Sheet.pdf

Letter I · Sample Contract.pdf

Pharmacy 2018.pdf

Wholesale 2018.pdf

RemedyRepack 2018.pdf

Sapphire 20151001.pdf

Pharmaceutical Service and Supplies
Williamson County Jail
Bid 1708-185

September 18, 2017, at 12:00 p.m. PDT

Submitted to:

Williamson County Purchasing Department
901 South Austin Avenue
Georgetown, Texas 78626
https://www.bidsync.com/bidsync-app-web/vendor/links/BidDetail.xhtml?bidid=2017240

Prepared by:

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A. Transmittal Letter (2.3)

LETTER OF TRANSMITTAL

We are submitting a response to Request for Proposal #1708-185, Pharmaceuticals and Pharmaceutical Service/Supplies for the Williamson County Jail due September 18, 2017 at 12:00 pm. Diamond Pharmacy Services has the ability to meet, as well as exceed all services requested and will comply with all contract terms and conditions set forth in this Request for Proposal for award of the contract. This proposal will be valid for a period of ninety (90) calendar days from the deadline for proposal submittals. This proposal will not have an effect on air quality for Williamson County.

Organization and Type of Business
Diamond Drugs, Inc.
dba Diamond Pharmacy Services
645 Kolter Drive
Indiana, PA 15701-3570
Phone: 800.882.6337
Fax: 877-234-7050
Diamond Drugs, Inc. is a corporation
Incorporated in Pennsylvania
Federal Employer Identification Number: 25-1378278

Authorized contact person to contractually obligate the organization, to negotiate contracts for the organization and contact person for clarifications:
Mark J. Zilner, R.Ph.
Owner and Chief Operating Officer
Phone: 800.882.6337 x1003
Fax: 724.349.2604
mzilner@diamondpharmacy.com

Pharmaceutical dispensing and distribution services will be provided from our corporate pharmacy location in Indiana, Pennsylvania.

Mark J. Zilner, R.Ph., Owner & Chief Operating Officer
mzilner@diamondpharmacy.com
Pharmacy Contact

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C. Executive Summary (2.4)

The Respondent should provide an Executive Summary of its Proposal that asserts that the Respondent is providing in its response all of the requirements of this RFP. The Executive Summary should not include any information concerning the cost of the Proposal, but instead must represent a full and concise summary of the contents of the Proposal. It is recommended the Executive Summary include the following information:

Introduction and Approach to Services

Diamond Pharmacy Services appreciates the opportunity to submit this proposal for pharmaceutical services in response to your solicitation. We hope to distinguish ourselves as the most qualified, experienced, and responsive bidder that will best serve the interests of the Williamson County Jail, as Diamond will provide exceptional value through improved operational, clinical, formulary management, technological, and regulatory practices.

If Diamond is awarded a contract pursuant to your solicitation, our focus will be on applying Diamond's 35 years of correctional pharmacy experience to best help the staff and administrators of the Williamson County Jail. Throughout our proposal, we detail our services and capabilities related to your mandatory requirements and scope-of-work specifications. As a true partner to the Williamson County Jail, we wish to work at a deeper level to gain full insight into your current needs and issues. Diamond then effectively aligns our products and services to accomplish the results the Williamson County Jail seeks and expects from a pharmacy vendor.

The sincere and long-term relationships that we have created with our existing clients are a result of our willingness to listen, discuss, and discern the issues that really matter to our customers and then provide timely solutions. We care about the issues our customers experience and the problems they face. We also care about the benefits and gain our customers will enjoy resulting from our collaborative success in addressing those issues and solving those problems. Diamond will always ask, "Are you receiving the services and solutions you need?"

Diamond has worked hard since your last procurement in 2014 on operational efficiencies, clinical innovations, and technological solutions in anticipation of Williamson County releasing this bid for pharmacy services. We have used the information and experience gained on your past procurement to solidify our resolve and we have committed substantial resources over the past several years to strengthen our operations while continuing to grow as a company so at this time we could **provide Williamson County with the best possible proposal and value.**

We realize that medication dispensing and pharmacy program management are professional services, unlike a commodity or product for which solicitations often are decided solely by the lowest price. Your evaluation team has been tasked with the responsibility of analyzing and evaluating proposals to determine the strongest differentiators and best value among bidders. They will focus on factors—such as methodology, best practices, systems, and processes—that most likely have an impact over the long term. Diamond will meet your requirements and exceed your expectations in the delivery of high quality pharmacy services and program management to the Williamson County Jail.

You can count on Diamond, with our **more than three decades of correctional pharmacy experience**, to properly manage your pharmacy program, quickly and effectively deal with the unexpected, and assure compliance with regulatory and accrediting bodies. As you evaluate our proposal, we hope to convey in a clear and concise manner the value provided in selecting Diamond as your pharmacy partner. **With Diamond, you will get more of the results the Williamson County Jail most desires.**

Key Personnel

Mark J. Zilner, RPh—Owner and Chief Operating Officer

As the Owner and Chief Operating Officer of the nation's largest provider of correctional pharmacy services, Mark oversees the Diamond Pharmacy Services Correctional Pharmacy Division. As such, he manages various federal, state, and county contracts. He works closely with our correctional account executives to ensure that our facilities obtain the level of service they deserve. Mark also routinely updates our account executives on enhancements and innovations as they become available.

Mark is involved in the startup and management of new accounts and with the maintenance of current accounts, including cost-containment analyses, formulary development, policy and procedures, production, regulatory affairs, technology, and overall customer satisfaction. He is directly involved in the conversion of new facilities to our pharmacy system, and he remains involved through the entire transition period.

Mark manages all seven of Diamond Drugs locations. In addition to his correctional responsibilities, he also presides over our parent company, Diamond Drugs, and our other subsidiaries including SapphireHealth, RemedyRepack, and InnovaHealth.

Experience/Certifications

- Clinical Pharmacist, 1991-present
- Correctional Pharmacist and Account Executive, 1991-present
- Clinical Consultant Pharmacist, 1991-present
- Member—Pennsylvania State Board of Pharmacy
- Designated Representative—Florida Department of Health, Drugs, Devices, and Cosmetics
- Licensed Pharmacist—Arkansas, Louisiana, Michigan, Nebraska, Pennsylvania, and Tennessee
- Account Executive—Numerous facilities in Arkansas, Louisiana, and Pennsylvania

Responsibilities

- Business development
- Contract negotiations
- Technology initiatives
- Developing and implementing policies and procedures
- Design and management of drug formularies
- Cost-containment studies and analysis
- Production organization and logistics
- Monitoring of market research and pharmaceutical innovations

Education

- Bachelor of Science, Pharmacy—Northeastern University School of Pharmacy, Boston, Massachusetts, 1991
- Clinical Internship—Veteran's Affairs (VA) Boston Healthcare System, Boston, Massachusetts
- MBA Certificate—Indiana University of Pennsylvania (IUP), Indiana, Pennsylvania

Membership

- Previous Board of Directors, Indiana County Chamber of Commerce
- Advisory Board, IUP Center for Family Business
- American Correctional Association Member
- American Jail Association Member
- American Society of Consultant Pharmacists Member
- Previous Executive Board Member, Indiana University of Pennsylvania (IUP) Research Institute

Awards

- Distinguished Alumni Award, Northeastern University School of Pharmacy, 2017
- Finalist, CardinalHealth Ken Wurster Leadership Award, 2016
- Top 100 Organization, *Pennsylvania Business Central*, 2011 & 2014
- Finalist, Governor's ImPAct Jobs First Award, Team Pennsylvania, 2013
- Distinguished Family Business, Indiana University of Pennsylvania (IUP) Eberly College of Business and Information Technology, 2012
- Top 5,000 Fastest Growing Independently Owned Companies, *Inc. Magazine*, 2007–2009
- Innovations Award Winner, Council of State Governments, 2006—based on best economic benefit to state and local governments through pharmaceutical savings
- Top 500 Fastest Growing Independently Owned Companies, *Inc. Magazine*, 2002–2003
- Top 100 People in Business, *Pennsylvania Business Central*
- Largest Private Employer, *Pennsylvania Business Central*
- Employer of the Year, Indiana County Business & Professional Women's Club

Matthew Valasek, RPh, MBA—Director of Pharmacy Operations

Matt started with the company in 1996 and since then has been an integral component in the development of Diamond's IT Department and software programming team. He immediately led several projects. He assumed managerial roles within the first few years of employment and has seen the company grow from a work force of 25 employees to our current staff of over 800 employees. His vision on automation, barcode technology, and workflow management has positioned Diamond to meet the needs and challenges of today's correctional marketplace. He also envisioned the need for a wholesale and repackaging division to meet the needs of our client base and started Diamond Wholesale along with RemedyRepack. Matt continues to play a vital role in Diamond's operational initiatives and continues working with our team to provide leadership in the development of new software/technology/hardware for quality improvement/new business. In addition to providing management oversight to the correctional services division, Matt is responsible for overseeing daily operations, Diamond's IT department, systems development, and new product purchases involving software and automation.

Experience/Certifications

- 10 Years Director of Correctional Services/Director of Technology, 1996-present
- 14 Years total Correctional and Long-term Care Experience
- 10 Years Correctional consulting experience
- 10 Years Nursing home consulting experience
- 5 Years Sales experience
- 3 Years Retail experience
- Licensed Pharmacist— Florida, Pennsylvania, and South Carolina

Education

- Bachelor of Science, Pharmacy—University of Pittsburgh School of Pharmacy, Pittsburgh, Pennsylvania, 1994
- Internship—UPMC Presbyterian, Pittsburgh, Pennsylvania
- Internship—St. Francis Hospital, Pittsburgh, Pennsylvania
- Master of Business Administration, *magna cum laude*—University of Pittsburgh, Pittsburgh, Pennsylvania, 1998

Membership

- American Society of Consultant Pharmacists (ASCP)
- National Community Pharmacists Association (NCPA)

Job Description

- Oversees daily operations for correctional services
- Oversees daily operations for long-term care division
- Oversees pharmacists, nurses, warehouse, data entry technicians, and billing technicians
- Oversees and directs all software development.
- Oversees IT Department
- Oversees Wholesale Division
- Oversees Customer Service Department
- Oversees Director of Correctional Operations

Matthew Catanzaro, RPh—Director of Correctional Operations

Matt is responsible for production areas related to our correctional business. This includes technician and pharmacist staff assigned to work with accounts in addition to general oversight of the systems responsible for daily operations. Matt is also charged with business analysis of expansion of existing software as well as system architecture alterations for said systems where applicable. Systems integration and interfacing has become a necessity in the healthcare industry and as such, Matt has been tasked with a lead role in interface development, installation, and maintenance.

Experience/Certifications

- 10 Years Correctional Experience
- 8 Years Retail Experience

Education

- Graduate, Duquesne University School of Pharmacy, 1995
- Internship, Mercy Hospital of Pittsburgh

Memberships/Awards

- Phi Lambda Sigma, Pharmacy Leadership Society

Job Description

- Ensures that our correctional operation complies with all federal and state laws and regulations related to the practice of pharmacy
- Reviews and administers all changes to pharmacy equipment, operations, and policies
- Maintains responsibility for performance management of pharmacists and technicians, pharmacy quality assurance and process compliance, training and development of pharmacists and technicians, professional licensure of the pharmacy, pharmacists, and technicians, and communication of professional issues to pharmacists and technicians.
- Ensures that the pharmacy is practiced in a safe, lawful, ethical, and professional manner at all times, including prescription processing ,regulatory/inspection requirements, recordkeeping, pharmacy security, and professional licensure of the pharmacy, pharmacists, and technicians
- Keeps updated on industry trends as well as federal and state regulations to ensure compliance
- Maintains membership on the site leadership team and actively participates in business and operational decisions
- Participates in decisions regarding staffing in the pharmacy operation to set the proper level of staffing for the anticipated volume of prescriptions, sets the ratio of pharmacists to technicians to be consistent with state pharmacy law and establishes, documents, and approves the appropriate duties for pharmacy technicians
- Prepares for, implements, and communicates new initiatives and policies to pharmacists and technicians

Matthew D. Risko, RPh, AAHIVP—Director of Clinical Services & Special Projects Manager–Correctional Division

Matt oversees our clinical review services and special projects. Our clinical review services cover formulary, drug utilization-disease state management, and evidence-based medicine—applied to facility drug usage and cost-containment. As a credentialed American Academy of HIV Medicine HIV Pharmacist™ (AAHIVP), Matt is in charge of HIV and Hepatitis C education for Diamond's pharmacists and customers, ensuring that patients are placed on appropriate regimens and protocols. He manages Diamond's 340B program, maintaining oversight of program arrangements as well as Diamond's compliance with 340B guidelines. As Special Projects Manager, he assists in the oversight of our long-term care satellite pharmacy in Reading, Pennsylvania, where he works to ensure operational efficiency and quality. Matt also serves an account executive, responsible for managing the accounts of the Kentucky Department of Corrections and of our largest medical groups. As such, he is a member of their Pharmacy and Therapeutics (P&T) committees.

Experience/Certifications

- 15 Years Correctional Experience
- 5 Years Retail Experience
- HIV Pharmaceutical Care Specialist
- Co-Editor, Diamond HIV Quarterly Journal
- American Academy of HIV Medicine HIV Expert™ (AAHIVE)
- 340B Program Manager
- Long-term Care Pharmacy Management
- Account Executive and P&T Representative—Kentucky Department of Corrections (KYDOC)
- Account Executive and P&T Representative—Corrections Corporation of America (CCA)
- Managing Director—Diamond Pharmacy Services HIV Patient Assistance Program

Education

- Bachelor of Science, Pharmacy—University of Pittsburgh School of Pharmacy, Pittsburgh, Pennsylvania, 1993
- Internship—UPMC Children's Hospital, Intensive Care Unit, Pittsburgh, Pennsylvania
- AIDS Education and Training Program— Pennsylvania MidAtlantic AIDS Education and Training Center & Telehealth AETC Appalachian Project, University of Pittsburgh, Pittsburgh, Pennsylvania
- HIV/AIDS Pharmacotherapy Traineeship—American Society of Consultant Pharmacists (ASCP) Foundation, 2005
- HIV Pharmaceutical Care Specialist Program—University of Buffalo School of Pharmacy, Buffalo, New York
- Annual Hepatitis Symposium—Clinical Care Options
- Annual HIV Symposium—Clinical Care Options

Tammy Conroy, R.Ph, CCHP—Account Executive and Clinical Consultant Pharmacist

Tammy manages and oversees contracts for Diamond accounts in Texas. She personally conducts on-site visits and inspections and serves as an active member of facility P&T, MAC, Executive, CQI, and Formulary committees.

In addition to the daily oversight of pharmacy operations at her facilities, she has successfully introduced and implemented electronic ordering, eMAR, electronic reconciliation, reporting, and medication management systems to her Diamond clients. Her experience covers facilities in all disciplines of correctional pharmacy such as adult detention centers, juvenile facilities, female institutions, mental health treatment units, forensic treatment units, Hepatitis C specialty units, intake centers, and correctional hospital facilities.

Experience has no substitute, and Tammy has the comprehensive knowledge and understanding of the correctional pharmacy industry that will enable her to manage this important account. Her experience as a **Texas licensed pharmacist** will prove to be an invaluable resource your facility.

Experience/Certifications

- 12 Years of Correctional Experience
- 6 Years of Long-Term Care Experience
- 4 Years of Retail Experience
- Distribution/Wholesale Coordinator
- Account Executive
  - ✓ Maine Department of Corrections
  - ✓ New Jersey Departments of Corrections
  - ✓ Several county jail facilities in the state of Texas
  - ✓ Diamond's University of Texas Medical Branch (UTMB) contract

Certifications

- Certified Correctional Health Professional (CCHP), National Commission on Correctional Health Care (NCCHC)

Leadership Experience

- Oversight of daily pharmacy operations in managed facilities, assuring efficient and effective operations
- Implementation of electronic ordering, reconciliation, and medication management systems
- Responsible for maintaining formulary exception and prior authorization processes
- Clinical and financial data analysis and reporting
- Communicates and assesses pharmacy performance metrics
- Medication room inspections
- Responsible for resolution of facility-level issues or concerns
- Identifies areas where system modifications or changes could result in operational improvements
- Collaborates with facility management for regulatory reporting and other projects and outcomes
- Stays abreast of industry and pharmacy practices that can better serve customers
- Provision of educational services to clients

Education

- Graduate, University of Pittsburgh School of Pharmacy

A. Goods and/or Services beyond Those Requested

A. Identify any goods and/or services that are provided beyond those specifically requested. If the Respondent is providing services and/or goods that do not meet the specific requirements of this RFP, but in the opinion of the Respondent are equivalent or superior to those specifically requested, any such differences should be noted in the Executive Summary. However, the Respondent must realize that failure to provide the goods and/or services specifically required, at the County's sole discretion, may result in disqualification of the Proposal.

As Diamond's list of value-added services is extensive, we have included detailed information at the end of our proposal, but summary information (as follows) under this Executive Summary.

Advantages from Partnering with Diamond

You will receive the greatest overall value and a full range of pharmaceutical services from Diamond.

What sets Diamond apart in the correctional pharmacy industry?

- Unmatched industry-leading knowledge
  - ✓ 100-plus years of retail pharmacy experience
  - ✓ 47 Years of institutional pharmacy experience
  - ✓ 35 Years of correctional pharmacy experience
  - ✓ 19 Years of correctional pharmacy experience in Texas
- A pharmacy program customized for the Williamson County Jail
- Evidence-based clinical and disease-state management programs
- Lower operational costs and improved patient care
- The most experienced, educated, and responsive in-house clinical pharmacist staff in the industry
- Diamond's numerous pharmacists with specialty training, including:
  - ✓ 30 PharmD pharmacists
  - ✓ 2 Fully credentialed HIV Expert™ (AAHIVE) pharmacists
  - ✓ A Certified Diabetes Educator
  - ✓ An Adverse Drug Reaction Coordinator
  - ✓ Three Compounding Specialists
  - ✓ Two 340B Program Management Experts
  - ✓ An Anticoagulation Specialist
- A highly trained and knowledgeable in-house support staff who work exclusively in the correctional setting to understand your needs and provide specialized services
- A fully-staffed information technology (IT) department and systems development department comprising in-house programmers that allow us to immediately meet programming needs versus outsourcing to third parties
- Superior software programs provided to facilities and corporate staff
- Full-time, personalized customer care as we are open 24/7/365, including access to a regularly scheduled registered pharmacist who will assist your staff in making pharmacological decisions

- Full compliance with federal, state, and local regulatory agencies and accreditation organizations
- Clinical excellence through formulary management, reporting, drug utilization reviews, disease-state management, and therapeutic monitoring
- Technology that enhances the accuracy and timeliness of our operations and yours
- A dependable next-business-day delivery model for routine medication orders, so your medications are on-hand when you need them
- An efficient model for accurate ordering and timely delivery of electronically submitted refills
- A reliable national network of backup pharmacies to supply same-day emergency medications
- An in-house legal and compliance staff, available to provide Diamond customers with immediate consultation
- A comprehensive quality assurance (QA) program and continuous monitoring
- The knowledge of a Texas-licensed pharmacist currently on staff that will also serve as your Account Executive

Diamond's Services Beyond your Bid Requirements and Specifications

Diamond distinguishes itself as a leader and first-mover in the development and advancement all of the above services well beyond the rest of the industry. **We will also provide the following services that are beyond those requested in your invitation to bid.**

- As required in your response to Question 11 of Addendum 1, Diamond will provide Williamson County with a fully functional eMAR solution, which we believe is lacking with the software you currently use, eLinkRx.
- As required in your response to Question 19 of Addendum 1, Diamond's subsidiary RemedyRepack is a FDA-registered repackager, which is a requirement for stock medications to be distributed in 30-count blister card packaging.
- As stated in your response to Question 46 of Addendum 1, you are receiving medication delivery 3 to 4 times per week. Diamond is proposing a 6-day-per-week delivery schedule.
- As stated in your response to Questions 61 of Addendum 1, Williamson County does not have a KOP program in place. We can help establish a program based on industry standards that will decrease the amount of time spent on med pass and allow nursing staff to spend more time on patient care.
- As stated in your response to Question 65 of Addendum 1, a pharmacist is not currently involved the in non-formulary medications review process. Diamond will provide Williamson County with first-line pharmacist-centered non-formulary medication reviews and alternative treatment recommendations to providers and specialists.
- As stated in your responses to Question 79 of Addendum 1, there are no P&T meetings. Diamond will provide quarterly P&T meetings by teleconference or webinar.
- Diamond will provide 24/7/365 telephone consulting.
- Diamond will provide our medications that are eligible for reclamation in true unit-dose blister card packaging to ensure the safety of your patients regarding medication returns.
- Diamond will provide Williamson County with the most comprehensive and actionable reporting within the entire correctional industry through our Online Reporting Program dashboard.
- Diamond will provide 340B program management if we can establish a relationship with a covered entity in your area.

B. Most Qualified Respondent

B. Indicate why the Respondent believes that it is the most qualified Respondent to provide the services described in this RFP. The Successful Respondent must demonstrate extensive experience and understanding of the intent of this project. The Respondent should describe in detail the current and historical experience the Respondent and its subcontractors have that would be relevant to completing the project. References must contain the name of key personnel and telephone numbers for each contact, as described in Section 3.14, References.

Methodology and Industry Experience

Whether you manage a 10-bed facility or a 10,000-bed institution, a single-county facility or a statewide network covering multiple locations, Diamond customizes our services to fit your needs. We deliver high quality care and attention to your staff, so they in turn can best serve each patient entrusted to your care. Diamond has the experience, expertise, and resources you need.

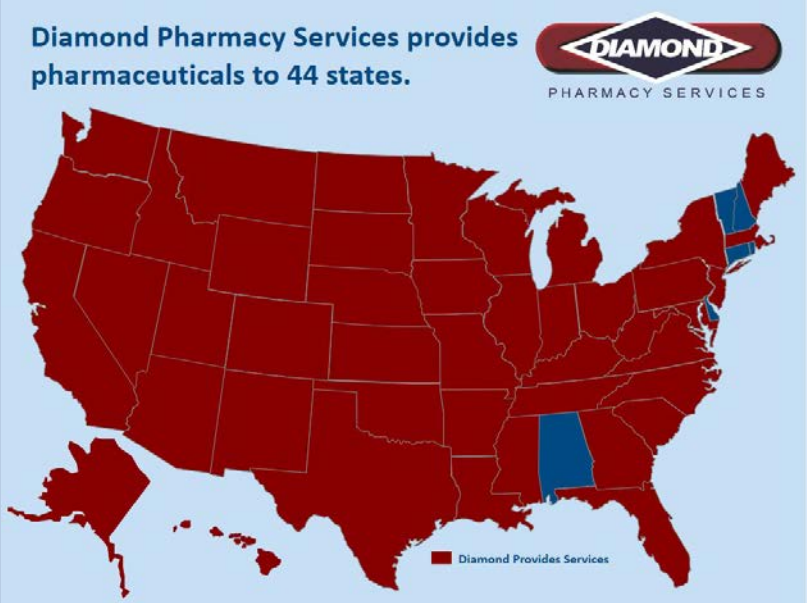
Diamond provides comprehensive pharmacy services and program management to adult detention centers, juvenile justice facilities, female facilities, intake centers, alcohol and drug detox centers, large and small state departments of corrections, as well as privately owned correctional facilities through the nation.

Over the past three decades, Diamond has risen to the forefront of the correctional pharmacy industry through word-of-mouth, excellent pricing, superior customer service, family-based morals and ethics, hard work, a family of dedicated and experienced employees, and the loyalty of our current customer base. We do not take our status for granted. We work hard every day to exceed the needs of our current clientele while striving for continued growth through the hopeful acquisition of new partners such as Williamson County Jail.

While we have grown to become the industry leader, we have never forgotten our principles or our roots as a family-owned and -operated business. With Diamond, you get the operational, clinical, and technological offerings of a large company, along with the caring, compassion, and attention to detail found with a second-generation family-owned business.

Our experienced technicians and Texas-licensed pharmacist account executive will establish a genuine rapport with your staff through their daily interactions. Your facility will benefit from the unique and sincere long-term relationship we create with all of our customers, which truly sets Diamond apart from other correctional pharmacies. High-quality pharmacy care and personalized program support are the hallmarks of Diamond's business model. You will benefit from both when you partner with us.

As you know, in today's business climate, companies often try to develop marketing and organizational strategies for growth. However, **Diamond believes that growth is not a strategy; it is a result of exceptional pharmaceutical services and superior customer service**. Our tremendous growth is evidenced by the sheer number of facilities that have contracted with Diamond in your region and nationwide.



***Current Service Area**. Diamond provides pharmacy services nationwide to correctional facilities in the 44 states shaded in red.*

As the nation's largest correctional pharmacy services provider, Diamond fills over 16 million prescriptions annually. We proudly service approximately 640,000 correctional patients (30% of the nation's inmates) in 44 states in over 1,500 correctional facilities, including over 120 juvenile facilities and 9 statewide Departments of Corrections. In addition, we are Pennsylvania's largest Long Term Care pharmacy provider.

We have been filling prescriptions for inmates in Texas since 1998, and we currently service 77 facilities in the state, ranging in capacity from 22 [the Barbara Culver Juvenile Justice Center in Midland, Texas] to 2,400 [the U.S. Immigration and Customs Enforcement (ICE) South Texas Family Residential Center in Dilley, Texas]. Our experience provides us with a comprehensive understanding of all applicable federal, state, and local laws, rules, and regulations, including those promulgated by the Texas Board of Pharmacy. We support the Texas Jail Association (TJA), the Sheriffs' Association of Texas, and the Texas Chief Deputies Association.

Diamond offers professional comprehensive pharmaceutical services for all prescription and over-the-counter (OTC) medications, compounds, and intravenous (IV) solutions, as ordered by your designated prescribers. We also offer exceptional value through our clinical management and technology solutions that will meet your current needs and position your facility for future enhancements. We label, package, and dispense all medications for stock distribution or patient-specific dispensing in full compliance with all current and anticipated federal, state, local, and department laws, rules, regulations, and provisions, or in their absence, trade and industry best practices and standards.

History of Innovation

Diamond has a long history of innovation and we are recognized as the industry's first mover. Many of the standards and operational aspects that are taken for granted by most jails and prisons were introduced by Diamond over the past 35 years. We are a pharmacy partner that adapts and can change as the need arises.

- We were the first to have web-based online reporting, so you have 24/7/365 access to accurate and meaningful medication and patient information.
- We were the first to utilize, as well as develop, our own online ordering and eMAR software
- We were the first to have an electronic reconciliation program, electronic medication return and credit processing, and electronic inventory management.
- We were the first to offer credit on returned medications and we are the only pharmacy provider fully vested in **true unit-dose blister card packaging** that ensures the safety of your patients by tracking the lot number and expiration date on returned medications that are eligible for reclamation.
- We were the first pharmacy to seek and obtain Joint Commission-accreditation.
- We were the first and to our knowledge, the only pharmacy to seek and obtain Verified-Accredited Wholesale Distributor (VAWD) accreditation which reflects the highest standards for stock distribution to correctional facilities.
- We were the first pharmacy to offer blister card packaging.
- We are the only industry pharmacy with the foresight to be a licensed wholesaler and a registered repackager to ensure regulatory compliance with FDA standards —at our expense, not yours
- We were the first pharmacy to offer formulary management and alternative treatment recommendations to customers
- We were the first industry provider to utilize pharmacists to manage our accounts – and we still do as a means to provide the greatest value regarding your pharmacy management program

Your facility's patients will always receive high-quality pharmacy care, and your staff will receive the program support they need by partnering with Diamond. We provide a full array of clinical, operational, and consulting services that will allow you to enjoy a level of service that is second to none.

We also understand you are looking for pharmacy provider that will:

- Provide innovative clinical and formulary management solutions
- Provide a comprehensive approach and methodology to scope of work requirements
- Display a high level of character, integrity, judgment, and efficiency
- Have a stellar industry reputation and extensive industry experience
- Have strong financial resources
- Comply with the required delivery schedule
- Display an excellent record of performance from references provided
- Keep your facility in full regulatory compliance
- Provide the greatest overall value to the County through competitive pricing, quality, and services and optimize solutions that meet or exceed the needs of Williamson County

C. Meeting the County's Needs and RFP Requirements

C. Briefly state why the Respondent believes its proposed goods and/or services best meet the County's needs and RFP requirements, and the Respondent also should concisely describe any additional features, aspects, or advantages of its goods and/or services in any relevant area not covered elsewhere in its Proposal.

Our strengths can be summarized in five basic core competencies that are critical for superior correctional specific pharmaceutical program management that we call the Diamond 5Cs. They are Customer service, Clinical services, Computerization, Compliance with regulations and accreditation bodies, and Cost control. Our bid details each of these core strengths and clearly shows the levels of experience, knowledge, and expertise that we have gained over the past 35 years in the correctional pharmacy industry that will be shared with your facility and staff.

We also believe that critically important for Williamson County is partnering with a pharmacy vendor that:

- Provides undeniable value
- Listens to your needs
- Provides you with real and timely solutions when issues or questions arise
- Wishes to be a long-term partner with your facility
- Can apply over 35 years of expertise and knowledge gained in the correctional pharmacy industry to better help you achieve your goals and fulfill your mission of patient-centered and evidence-based pharmaceutical care

Pharmacy Services

COMPLETE PRODUCT LINE—Pharmaceuticals, OTCs, IVs, vaccines, hematologicals, compounds, medical supplies, respiratory supplies, commissary, and all related supplies are available at the most competitive prices.

SIMPLE ORDERING—Facility staff can order online through our free, web-based proprietary Sapphire CPOE system or auto fax orders to our facility using a toll-free number.

EMERGENCY DELIVERY—Diamond will arrange for a local backup pharmacy for emergency prescriptions in addition to providing on-site emergency stock.

SECURITY—All orders will be signed for when delivered and tracked by Diamond. A detailed packing slip with item listing and pricing will be enclosed to ensure accountability

COMPETITIVE PRICING—Due to our large volume and efficiencies, we are able to offer competitive pricing on prescriptions and medical supplies.

CREDIT ON RETURNS—Due to our unit-dose blister card packaging, we are able to offer credit on full or partial blister cards returned, meeting all state and federal guidelines.

JOINT COMMISSION—Diamond is the first, and to our knowledge the only, national correctional pharmaceutical supplier accredited by The Joint Commission. This accreditation covers Pharmacy Dispensing Services, Clinical/Consultant Pharmacist Services, Long Term Care Pharmacy Services, Home Medical Equipment Services, IV Therapy Services, and Respiratory Services. The Joint Commission is the highest level of accreditation typically found only in hospitals.

FORMULARY IMPLEMENTATION AND MANAGEMENT—Diamond will enforce a drug formulary to further reduce costs. We will assist in the continued development and compliance of the formulary by jointly formulating and controlling a drug list with the physicians, which will greatly reduce drug expenditures. We will be an active member of your P&T committee.

MEDICATION ADMINISTRATION RECORDS (MARs)—Diamond will provide electronic MARs monthly for each patient, charting documentation of medication administration.

MONTHLY REPORTS—Diamond offers over 300 different types of computer-generated monthly management reports. You may choose from these reports, or we will customize reports which best meet your department's specific needs. We are also offering a web based program so reports may be generated easily by your staff.

MEDICATION ROOM REVIEW SERVICES—A clinical pharmacist will inspect each medication room on site, where required by law or accreditation, to verify compliance of all procedures and provide all documentation of inspection.

IN-SERVICE—Our clinical staff of pharmacists and nurses will provide in-services on a wide variety of pharmacy topics during our reviews.

CONSULTING—Diamond's hours of operation are 24 hours a day, 365 days a year; therefore, our pharmacists are available continuously to answer questions regarding medications or other questions.

COMMITTEE PARTICIPATION—A licensed clinical pharmacist will serve as a member of your department's Pharmacy & Therapeutics and Quality Assurance Committees, CQI meetings, and other required meetings.

PRESCRIPTION MONITORING SERVICES—Our clinical pharmacists will thoroughly screen the patients' profiles to ensure safe and therapeutic medication administration.

COMPLIANCE—We will follow the guidelines of your department, facilities, the National Commission on Correctional Health Care (NCCHC), the American Correctional Association (ACA), the American Jail Association (AJA), the Department of Corrections, The Joint Commission, The Controlled Substances Act and he Texas Board of Pharmacy, to keep your facility in compliance.

VIDEO LIBRARY—We have an extensive video library of over 300 tapes and DVDs on various health-related topics, including drugs and disease states that may be viewed by your facilities and returned.

STARTER PACKS—We will provide stock blister cards or bulk of certain oral solid medications needed for immediate administration. Stock will be packaged by a licensed repackager, which is a requirement to obtain stock in blister cards **and a requirement of your invitation to bid**.

EMERGENCY DRUG KIT (EDK)—We will provide kits or crash cart stock of certain injectable medications required to alleviate pain, treat infection, modify dangerous behavior, or preserve life.

POLICY AND PROCEDURES MANUAL—We will maintain and update an extensive policies and procedures manual to your facility. We will assist in further developing, implementing, and monitoring procedures for safe and effective ordering, distribution, control, and use of medications.

MEDICAL SUPPLIES—We carry a complete line of medical equipment and supplies at the most competitive pricing, making Diamond a one-stop shop for your convenience,

SOFTWARE—Diamond offers a proprietary web-based software application, Sapphire eMAR, which provides a professional, easy-to-use, innovative medication order entry system. As a homegrown system, it offers many benefits such as the following:

- Not being locked into a system through a contract
- Diamond taking full responsibility of product and support
- Diamond making necessary modifications to software through one of our on-site programmers and IT professionals
- One point of contact versus use of multiple vendors to provide solutions
- eMAR integration that is specifically designed to work with our pharmacy applications
- Ability to interface with other electronic health record (EHR) systems to complement our order entry and eMAR system
- Customization to meet your needs and specifications. Not being forced into a “cookie cutter” product that would require fees for upgrades and enhancements that are standard with Sapphire
- A product we offer to our customers free of charge if submitting all orders to Diamond via the Sapphire system and when purchasing all medications from Diamond

Sapphire eMAR also is a paperless electronic medication administration record that enables your nursing staff to efficiently administer and track all medication administration functions. This software has extensive capabilities and is a significant upgrade to paper MAR programs. **We offer Sapphire at no charge** when your facility transmits all orders using the system and when your facility purchases all medications from Diamond.

Diamond’s Sapphire eMAR medication management system will save you and your staff a significant amount of time. This software eliminates the end-of-month MAR changeover because all medication ordering and changes are automatically updated throughout the month. Several of Diamond’s facilities have experienced at least a 50% reduction in med pass time and have eliminated the time devoted to monthly MAR changeovers. With Sapphire eMAR, reviewing MARs for accuracy or arranging them in new binders at the end of every month is simply unnecessary.

D. Proposal Response to Criteria

Proposal Specifications

Williamson County is requesting Proposals from firms to supply Pharmaceuticals and Pharmaceutical Service/Supplies for its County Jail, whose current population is 650 inmates.

Please acknowledge and/or respond to each of the specifications listed below and expound your firm's abilities to meet or exceed these requirements.

1. Sources of Supply

1. Proposer agrees and understands that the awarded proposer will be the principal source of supply for pharmaceuticals during the term of the contract. However, Williamson County reserves the right to purchase these products from other sources of supply in case of emergency or when the vendor is out of stock and it becomes necessary for Williamson County to support its immediate operational requirements.

Diamond acknowledges that we will be the principal supplier of pharmaceuticals for the Williamson County Jail, should the County award us the contract. We recognize that the County reserves the right to purchase these products from other sources of supply in case of emergency or when Diamond is out of stock and supporting the immediate operational requirements of Williamson County becomes necessary. We will work closely with Williamson County to establish local backup pharmacies for the procurement of emergency medications and provide the backup pharmacy with an electronic mechanism to invoice the medication costs and any delivery fees if applicable.

Diamond's prescription volume and the diversity of our customers require us to maintain a large inventory of prescription and over-the-counter (OTC) medications. **Items are rarely out of stock.**

We receive regular next-day shipments from our pharmaceutical wholesalers. We base our inventory on reporting volume and usage trends, which allows us to have adequate products available for our customers. If we experience a medication shortage, we can borrow medications from one of our two retail pharmacies or from our local pharmacy network, which consists of retail and hospital pharmacies.

Diamond's on-hand inventory and purchasing power simply cannot be matched in the correctional pharmacy industry. This is very important to note, as many medications that other pharmacies would not stock typically are readily available from Diamond simply due to the sheer number of prescriptions we dispense each day as well as due to our additional satellite locations and the nursing home population we also service.

Inhalers, injections, IV medications, REMS medications, vaccines, biologicals, HIV medications, Hepatitis C medications, and numerous others are in our routine daily inventory. **Because Diamond accurately and reliably dispenses 16 million prescriptions annually, we typically have the medication in stock when you place your order so your patients can begin therapy without additional delays.**

2. FDA and USP Compliance

2. All pharmaceuticals, chemicals, and drugs provided under this contract shall conform to the standards set by the Federal Food and Drug Administration and the latest editions of the US Pharmacopoeia, the National Formulary, or the American Medical Association's publication, New Drugs, where applicable, whether or not this is specially indicated in the specification or proposal. In cases of multi-source drug products, names of manufacturers must be listed in the current FDA of approved drug products with therapeutic equivalence evaluations publication.

Diamond acknowledges that all pharmaceuticals, chemicals, and drugs provided under this contract shall conform to the standards set by the U.S. Food and Drug Administration (FDA) and the latest edition of the United States Pharmacopoeia and The National Formulary (USP-NF), which is accessible at www.uspnf.com/uspnf/login The drugs provided under this contract also shall conform to standards set and published by the American Medical Association (AMA), where applicable, whether or not this is specifically indicated in the specification or proposal. If the drug is multi-source, we will provide products that are listed in the most current Orange Book: Approved Drug Products with Therapeutic Equivalence Evaluations, which is published by the FDA and accessible at www.accessdata.fda.gov/scripts/cder/ob/.

3. NDAs & ANDAs

3. Supplier must hold approved New Drug Applications (NDA) or Abbreviated New Drug Application (ANDA) for all products.

Diamond provides drugs that have been the subject of an approved New Drug Application (NDA) and provides generic drugs that have been the subject of an approved Abbreviated New Drug Application (ANDA).

NDAs and ANDAs do not apply to suppliers of drugs. These documents would be on file with the drug's manufacturer. As Diamond is a drug supplier and not a drug manufacturer, we would not hold NDAs or ANDAs, not would any other pharmacy bidder.

In accordance with your responses to questions in Addendum 1, our understanding is that this specification was designated as N/A.

4. Medicaid Licensure

4. Supplier must be a licensed Medicaid vendor.

Diamond is a licensed Medicaid vendor in the Commonwealth of Pennsylvania (License# 100730225 0004). We bill Medicaid prescriptions in all states that permit out-of-state pharmacies to do so. Texas does not permit out-of-state pharmacies to bill Medicaid. If the need does arise to bill a Medicaid claim, these will be processed locally by one of our contracted backup pharmacies; however, in our experience, Medicaid does not cover incarcerated individuals and your response to questions indicated that no Medicaid claims have been billed in the past 12 months by your incumbent provider.

5. HIV Program

5. Supplier must be an approved pharmacy by the Texas Department of Health/HIV program.

The Texas HIV Medication Program (THMP) distributes medication to eligible clients through a statewide network of participating pharmacies, as described on the Texas Department of State Health Services website (www.dshs.state.tx.us/hivstd/meds/pharmacy.shtm). Only pharmacies located in Texas can be a THMP participating pharmacy. However, AIDS Drug Assistance Program (ADAP) Coordinator Duane Haught previously informed us that, by order of the State Attorney General, THMP approved pharmacies are no longer permitted to provide HIV medications through the Texas Department of State Health Services to county jails.

Diamond is a full service provider of pharmacy services and will fill any orders for HIV medications as written by your providers.

6.a. Blister Packaging

6. All products must be packaged in a manner that will afford reasonable protection against moisture and contamination always.
a. Supplier shall utilize blister packs for dispensing of medications.

Blister Cards

Prescription and non-prescription solid, orally administered medications are dispensed in our tamper-proof USP 30-count unit-dose blister cards.

Our blister cards provide a specialized filling system for safe, efficient, and cost-effective medication distribution. They also provide a sanitary delivery system compared with bulk bottles, multi-dose baggies, and vials. Such multi-dose systems can become contaminated with repeated opening and closing. Nurses enjoy the protection, accountability, and ease of delivery offered by blister cards.

Diamond also saves money for facilities that are permitted to have first-dose and prescription starter stock by distributing legend stock in 30-count blister cards, as inventory can be controlled more closely.

Diamond's Color-Coded Blister Cards. *To differentiate drug categories and reduce diversion, Diamond uses different colored cards. Legend and over-the counter (OTC) items are packaged in blue blister cards, and controlled substances, tramadol, and pseudoephedrine products are packaged in red blister cards.*

With Diamond, you do not need to purchase large volume and expensive stock bottles. Other pharmacies, which may not use the services of an FDA-registered repackager for stock repackaging into 30-count blister card, significantly increase your inventory dollars and expose your facility to potential regulatory compliance concerns.

Diamond has dedicated the resources necessary to ensure regulatory compliance when providing your facility with FDA-approved, true unit-dose stock packaging. However, not all pharmacies submitting a proposal to your evaluation team may have done so. **We encourage your evaluation team to check with your in-house legal counsel prior to awarding a contract.**

Other Packaging

Diamond also can provide medications in original manufacturers' pill bottles, conventional prescription bottles, stock cards (where allowable), and numerous other systems (upon request and at separately negotiated rates).

Quantity Dispensed

Routine maintenance medications are dispensed in a 30-day supply unless otherwise requested. Acute medications, such as antibiotics and pain medications are dispensed in the quantity as written by your clinicians, but not in excess of a 30-day supply per dispensing.

Discharge Medications

Discharge medications are dispensed to your facility in the quantity requested. Unless requested otherwise, all discharge medications are dispensed in childproof containers. These medications are labeled appropriately with all directions and auxiliary warning labels, in full compliance with all applicable regulations. For impromptu and immediate discharges, medications can be provided by a local backup pharmacy in your immediate area.

Over-the-Counter Medications

Over-the-counter (OTC) medications are sent to your facility in the original manufacturers' bulk packaging, except when the prescriber orders the medication for an individual patient or when prohibited by law or board regulations. If not sent in bulk, these medications are dispensed in blister cards or in prescription bottles, as requested.

Liquid Medications

Liquid medications are provided in unit-of-use containers, as written. Eardrops and liquids are provided in the original manufacturers' containers or are repackaged from their original glass containers into plastic, if requested and when permitted by the FDA.

Creams and Ointments

Diamond provides creams and ointments in the original manufacturers' containers or in plastic jars, if requested and when permitted by the FDA.

Intravenous Medications

Intravenous (IV) mixtures are shipped compounded, labeled, and ready-to-administer, or are dispensed in Baxter MINI-BAG Plus packaging for easy self-mixing on-site, upon request by the facility.

Unit-Dose Advantage

✓ True unit-dose blister card packaging is one way that Diamond separates itself from the rest of the industry and is critical for our customers who expect to safely obtain and maximize credits on returns.

At Diamond, we package, label, and dispense medications in a manner that allows us to accept medications for return while protecting the safety of your patients and minimizing waste. One of the goals of every solicitation is to save money and minimize waste; only Diamond can do that through our commitment to unit-dose blister card packaging on medication eligible for reclamation and credit.

As you are well aware, any pharmacy can issue credit on returned medications according to their own policies and procedures. However, not all pharmacies handle medications safely once the medications are returned. For a pharmacy to process a returned medication safely for reclamation, the pharmacy must ensure that their packaging system is true unit-dose. **Simply labeling the top of the blister card with the medication's lot number and expiration date is not true unit-dose packaging**. A true unit-dose system has the back of each individual bubble of the blister card eligible for reclamation labeled with the medication's name, strength, lot number, expiration date, and manufacturer. Packaging systems that do not label each individual bubble of the blister card with this information do not typically allow for the reuse of the medication in accordance with most, if not all, individual state statutes and/or boards of pharmacy rules and regulations.

Your evaluation team knows that a pharmacy providing credit on returned medications but not reusing the medications loses money on the returns. If that pharmacy reuses the medications despite using a packaging system other than a true unit-dose system, that pharmacy likely is acting in violation of board of pharmacy regulations **and putting the patients of the Williamson County Jail at risk** of receiving expired or recalled medications. Please realize the potential exposure of your facility to negative media attention and potential lawsuits that would require additional Williamson County Jail financial resources to adjudicate.

In providing value to your facility, Diamond believes that preserving the lot number, expiration date, and sanitary condition of each individual bubble of the blister pack on medications eligible for reclamation is critical when a medication is returned. Some other pharmacies, however, may remove medications from returned cards and then repackage and re-dispense the medication, which violates most state board of pharmacy regulations. **Such vendors cannot guarantee the integrity of the dispensed tablets, the lot number, or the expiration date of the medication because the medication returned by their facilities around the country does not remain in the original intact bubble packaging**. The medication may then be mixed into a large manufacturer's stock bottle and subsequently redispensed to patients, including yours.

Your responses to questions were surprising in that they indicated you may not be receiving true unit-dose blister card packaging, which may be compromising the safety of the inmates entrusted to your care.

If the medications dispensed to your facility have not been properly preserved in the intact unit-dose bubble of the blister card if/when returned by a facility in another part of the country, and then they are redispensed to your patients, the strong possibility exists that you may be administering expired or recalled medications to your patients.

We strongly urge you to identify how all bidders are accounting for medications returned by their customers around the county, so that you can ensure the safety of your inmates receiving medications.

Most pharmacy vendors do not want to commit the necessary financial and personnel resources to properly label each individual bubble of their blister cards. Proper labeling would comply with regulations and ensure the safety of your patients, should the patients be given re-dispensed medications. **During the evaluation process, please ask bidders to detail their step-by-step process for reclaiming medications returned in partial blister cards. Should the Williamson County Jail lose the ability to obtain credits on medications returned in partial blister cards, this would quickly become a tremendous financial burden to your facility and your taxpayers**.

True unit-dose blister card packaging *occurs only if a pharmacy vendor labels every individual bubble of the blister card with the medication's name, strength, NDC number, manufacturer's name, lot number, and expiration date on medication blister cards eligible for reclamation and credit.*

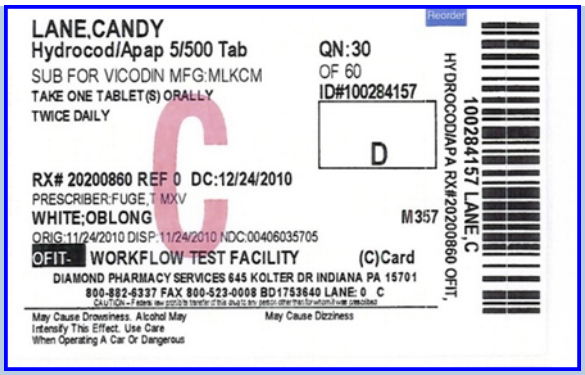
Simply labeling the front or top of a blister card with this information would NOT be considered as unit-dose dispensing.

6.b. Blister Packaging

b. Labels shall be affixed to the blister pack and the Medication Administration Record (MAR). Labels shall contain all the necessary information required by law as well as the inmates housing unit and date of birth. A sample of the blister pack should be included.

Medication Labeling

Each prescription is properly dispensed and labeled as patient-specific or stock, in full compliance with all federal and state laws, rules, regulations, and provisions. Each label includes the information required by the solicitation as well as the information listed below. Labels and as patient drug monographs can be provided in English as well as Spanish.



- Original date
- Dispense date
- Discontinue date (stop date) and/or refill information
- Medication expiration date
- Date on refill label, indicating when medications may be refilled
- Pharmacy name and address
- Dispensing pharmacist's initials
- Inmate name
- Inmate identification number (upon request)
- Cellblock (if applicable)
- Prescriber name
- Prescription number
- Route and times of administration
- Directions for use (Spanish available upon request)
- Medication name and strength
- Medication imprint, shape, and color for proper identification
- Generic interchange information
- Quantity dispensed
- Manufacturer's name
- Lot number
- Dosage form
- Cautions and alerts

Warning Labels

For safe and effective medication use, warning/auxiliary labels are placed on appropriate prescriptions. The labels describe cautions, warnings, potential interactions and reactions, and dietary instructions. Examples of warning/auxiliary labels include “take with food,” “may cause drowsiness,” and “shake well.”

Labels for Controlled Substances

Controlled substances, which are packaged in red blister cards for easy identification, are marked with a large red letter “**C**” if in Schedules III-V (C3, C4, and C5) and with two red letter “**C**”s if Schedule II (C2) to allow further differentiation by your staff.

Refill Labels

Part of the medication label is a barcode label with a peel-off refill tab, which is printed in clear, large type. The tabbed refill labels are supplied on every medication order. Each refill tab contains the patient's name and number, medication name, quantity, number of refills, prescriber, prescription number, and date the next refill is due. The information enables the nursing staff to properly identify the information on each reorder tab.

Medications are easily refilled by peeling the tab off the prescription label and placing it on a refill form. The form can then be faxed to Diamond or scanned into our free web-based electronic reordering system that is described in detail later in our proposal.

Unique Card Identification

Only Diamond, to our knowledge, provides a unique identifier on each prescription label to account for every piece of product dispensed or distributed to your facility. Without this unique barcode identifier, investigating and reporting any mishandling, diversion, or inappropriate prescribing of medication would be very difficult.

Diamond created and applied a unique barcode technology for our pharmacy many years ago, resulting from a need we identified for a specific customer. This customer was concerned that members of their nursing staff were possibly attempting to divert narcotics. Due to our success in eliminating the diversion issue at this facility, the decision was made to apply this technology companywide for all Diamond-dispensed medications.

An example of this technology follows. If your medical provider prescribes 90 tablets of Acetaminophen/codeine #3 and we dispense the prescription using three 30-count blister cards, Diamond can accurately report to the facility to the card level that all three were received and we can also provide to you from which specific card of the three the nurse administered the dose during a med pass. Most other pharmacies can provide accountability based only on one arbitrary prescription number of 90 tablets from their pharmacy, **which does not provide any level of accountability** for all of the doses received and then administered.

This capability, which we believe is **exclusive to Diamond**, is e**xtremely critical for medication reconciliation and accountability**, and is yet another way Diamond adds value that the rest of the industry cannot.

The unique barcode technology applied in the pharmacy labeling software by Diamond has assisted in numerous diversion investigations, site-specific questions on medication disappearance, continuous quality improvement (CQI) inquiries, and medication event aversions. It also has served as an auditing tool for facility budgetary and financial personnel.

6.c. KOP Medications

c. Supplier shall furnish Keep on Person (KOP) medications in approved containers and label them as such.

Keep-on-Person (KOP) Program

Many of our correctional clients realize the financial and operational value provided when a keep-on-person (KOP) program is properly administered and maintained. Less time is required by your staff on medication passes, inmates benefit by participating in their care, nursing is not inundated with tracking refill requests, and less financial resources are wasted on medications simply because an inmate does not wish to show up at a medication line.

Diamond has years of experience coordinating and consulting clients regarding KOP or self-medication systems. If your facility operates a KOP system, Diamond works in conjunction with your facility staff to help coordinate the KOP program. If your facility does not have a program, we will work with your staff to develop policies and procedures to meet your program goals for this initiative.

Our electronic ordering software enables your facility to customize KOP preferences at the point of order entry, and our dispensing software allows Diamond to monitor and enforce program compliance. During the med pass our paperless eMAR software indicates the medications that should be administered as KOP, provides accurate recordkeeping, and reminds staff when an inmate is due for a refill so that overutilization and underutilization do not occur. The software also properly records the administration based on the medication's order as prescribed by you clinicians.

6.d. Medication Carts

d. Supplier shall provide the County with a minimum four (4) medication carts for the dispensing of medications at no additional cost to the County. These carts shall be furnished with locks and keys in order to avoid unauthorized access.

Medication Carts

Diamond provides locking medication carts for the secure storage, transportation, and administration of all medications and supplies based on your facility's size and number of patients serviced.

Our carts are top-of-the-line, durable, lightweight, and narrow for easy maneuverability throughout correctional facilities. Our carts contain:

- Three blister card drawers
- A 3-inch high drawer (for the storage of topicals, ophthalmic medications, etc.)
- A separate, locked narcotic box
- Convenient features such as an extension table, an attached cup holder, an attached MAR holder, and a trash receptacle, when requested

Diamond's locked narcotic box meets all U.S. Drug Enforcement Administration (DEA), State Board of Pharmacy, and State Board of Nursing requirements related to the provision of a double-locked storage area.

*Diamond provides **locking medication carts** for the secure storage, transportation, and administration of all medications and supplies based on your facility's size and patient population.*

Medication carts vary in size, style, and options based on availability at the beginning of or throughout the agreement. Medication carts are provided on loan at no additional cost for the duration of the agreement when the facility orders all medications from Diamond. We provide maintenance and parts for your carts, and we will replace the carts when necessary.

Our licensed pharmacists, who are consultants with decades of correctional pharmaceutical experience, will review your medication cart configuration and make suggestions regarding the arrangement of your medication cart and distribution system.

6.e. Stock Medication

e. Supplier shall have ability to provide a stock-medication type inventory.

Emergency Drug Kits

Diamond provides lockable emergency medication kits, stat boxes, and starter kits (where permitted by law) that contain oral and injectable medications used for immediate administration to alleviate pain, treat infections, modify dangerous behavior, and preserve life.

- Medication quantities are determined in conjunction with your facility medical director.
- All contents are listed on the sealed, lockable kit along with the medication expiration dates.
- Accountability sheets in each kit or cabinet are used to document inventory, administered doses, and destruction.
- Diamond inventories the kit during inspections to verify that medications are not expired or missing.
- For facilities with controlled substances in their emergency kit, Diamond provides prescription order forms in the emergency box so providers can write orders to account for used medications.

Emergency IV Starter Kit

To meet the emergency IV medication needs of each facility, we propose that your facility have an emergency IV starter kit with hydrations, tubing, Baxter MINI-BAG antibiotics, and ancillary supplies so IV medications can be started immediately. These items would be maintained in the same manner as those in your emergency kit, and Diamond would replenish used items from each kit daily. We have deployed IV starter kits to numerous facilities and have found them to be a valuable resource. Onsite IV medications also will decrease costly hospital admissions.

Emergency Stock Cards

So you can immediately administer medications when necessary, Diamond carries a complete line of prescription and over-the-counter (OTC) medications that are packaged to meet your emergency first-dose stock requirements. Prior to contract initiation, we work with your medical director to establish sufficient stock inventory based on your current medication protocols, formulary medications, and historically used amounts.

Cards for administration of emergency stock can be provided by diamond.

Appropriate stock quantities are maintained using the following process:

- Diamond develops a customized order form that lists all the stock items your facility uses. Each form contains a list of the items with complete descriptions and package sizes. When your staff needs to order medications using the form, they simply indicate the quantity needed next to each item, sign the form, and submit the order to Diamond. If you use our Sapphire system, you will use an electronic stock form in the Sapphire platform (detailed later in our proposal).
- Within 3 months of contract inception, Diamond will have sufficient reportable data housed in our pharmacy system to assist your facility in developing par levels to better manage your inventory.
- We recommend that only one or two individuals have “ownership” of stock ordering so that access to medication is limited to authorized personnel, excessive quantities are not ordered, duplicate orders are not submitted by multiple personnel, and medications are kept secure at all times.
- For greater accountability of stock medications, the facility will have access to Diamond’s free electronic order reconciliation program. Your staff can use this system to scan your order upon receipt so they can account for all stock medications, prevent diversion, and prevent loss of inventory.

Stock Accountability

A system of accountability is very important. To reconcile all stock doses, Diamond strongly recommends that staff use inventory flow sheets or a stock binder/book to record and document each dose administered from a stock card. When stock is depleted, facility staff transmits the completed accountability sheet to Diamond to reconcile doses. Medication can be reordered as needed by submitting the peel-off reorder label or the stock order forms to Diamond by fax or electronically. Our system of accountability complies with all National Commission on Correctional Health Care (NCCHC) patient safety standards and American Correctional Association (ACA) guidelines. **If you use our Sapphire system, stock administrations are electronically tracked for accurate documentation of administered doses (which we believe is not possible with your current system, eLinkRx).**

Stock Diversion Prevention

To differentiate medications while preventing diversion, over-the-counter (OTC) and legend items are packaged in blue blister cards, and controlled-substance medications are packaged in red blister cards. To further help reduce diversion, Diamond requires that both the prescriber and a member of the nursing department sign any order forms for stock controlled-substance medications before they are distributed.

Compliance in the Provision of Stock Medications

Providing stock medications, particularly in blister cards, requires your pharmacy vendor to be licensed as a wholesaler in Texas or to subcontract the services of a wholesaler in Texas and requires your pharmacy vendor to use the services of an FDA-Registered Repackager. Diamond is a licensed wholesaler in the Commonwealth of Pennsylvania and the State of Texas, and our subsidiary company RemedyRepack is a Registered Repackager.

This status is very important, as all correctional facilities have some degree of prescription emergency or starter stock on hand in blister cards or bulk bottles for first-dose requirements so they do not need to rely on expensive purchases from local pharmacies in your immediate area. Failing to partner with a vendor that is properly licensed may subject the Williamson County Jail to fines and possible disciplinary action. We use RemedyRepack, one of Diamond's wholly owned subsidiaries and an FDA-registered repackager, for prescription stock medication that is distributed in 30-count blister cards, as required by law.

✓ Diamond's status as a licensed wholesaler and our use of an FDA-registered repackager—at our expense—is one of the many ways that Diamond separates itself from the competition and helps ensure your compliance with regulatory agencies in the provision of stock medication.

For many years, Diamond had subcontracted repackaging services to outside vendors to strictly comply with federal and state regulations. However, subcontracting had increased our internal operational costs and decreased our efficiency, as we were dependent on the repackager's pricing schedule and timelines for these services. To better serve our customer base and to continue strictly adhering with regulations, company owners decided to invest the financial and personnel resources to establish a repackaging arm from the ground up within Diamond.

The cost of medication repackaging is absorbed by Diamond—no additional cost is passed on to our customers. Diamond keeps you legal at our expense. Enhanced regulatory compliance is one of the many value-added services provided by Diamond.

6.f. Protocols

f. Protocols must be updated often to stay abreast of community standards.

Protocols and Reports

Diamond provides disease-state management protocols for chronic illnesses such as diabetes, hypertension, psychiatric, cardiovascular disease, asthma, chronic obstructive pulmonary disease (COPD), and HIV upon request. The protocols include approved therapies and cost-effective pharmaceutical guidelines.

Diamond can generate automated reports and email them to facility personnel. The reports can list inmates on medications that cause heat sensitivity or photosensitivity or that require adjustments in cases of liver or renal failure. We also provide reports on medications that are due to expire in 10 days (both formulary and non-formulary), hour-of-administration (HOA) reports, lists of inmates scheduled for court appearances and their medications which could be missed, HIV therapy reports, electronic release reports, and a multitude of reference materials to assist your staff in all clinical aspects of their daily operations.

7. Expiration Dates

7. Unless exceptions are made, such as for biological, all shipments of pharmaceutical products, which incur expiration dates, must have a minimum of one-year dating as of delivery.

Diamond will provide medications with a minimum expiration date of 1 year unless the product has less than 1-year dating due to pharmacokinetic properties or conflicts with Prescription Drug Marketing Act (PDMA) guidelines that strictly dictate the allowable expiration date that can be provided on repackaged stock blister cards. Some examples of items that may have less than 1-year dating would include biological products, biotechnology products, hormonal compounds, blood factor products, and hematological products. At all times, Diamond will provide products with the maximum allowable shelf life.

8. Exchanges and Credits

8. Items meeting the following criteria shall be exchangeable or creditable at the contracted price.
a. Trademarked items in original unopened package in accordance with the vendor's return goods policy. Vendor shall provide a copy of the return goods policy.
b. Non-trademarked items in original unopened packages, in accordance with the vendor's return goods policy.
c. Outdated biological products returned within one year after expiration date.
d. Any product that arouses questionable physical properties or therapeutic activities. The County reserves the right to return such product to the vendor for credit or immediate replacement. Return of such products shall not require prior notification to the vendor, and shall be returned at the vendor's expense.

Credit on Returns

In 2016, Diamond provided $18 million in credit to our customers.

Due to the rising price of medications and the costs resulting from inmate turnover and medication changes, Diamond realizes the importance of issuing credit on returned medications and offers credit on returned medications where permitted by law or regulation in accordance with our policy below.

Medication returns are processed using Diamond's free web-based electronic reconciliation program. The program tracks medications that are returned to Diamond using scanned barcodes. The process is simple and the uses the following steps:

- When you are ready to return medications for credit, your staff opens that function in the reconciliation program dashboard.
- Your staff scans the label on each medication you are sending back to Diamond for credit.
- Our system captures the information, stores it perpetually, and provides you with an electronic record of all items processed under that particular medication return session.
- The data can be exported to Excel, and you can print a hard copy document for your records if you wish and print a copy to serve as your medication return packing slip.
- Each month, we can electronically send our credit report to your facilities in Excel.
- You can compare our credit report to your electronic file that lists your returned medications.

Each individual barcode label on product dispensed by Diamond has a unique identifier embedded in the barcode. This is important because it allows your financial wing to have **100% accountability to the blister-card-level** when medications are returned for credit. A unique identifier on each label virtually eliminates diversion. By electronically handling all medication returns, your facility has an audit trail of all medications returned to Diamond.

We are offering credit on oral solid medications in full and partial blister cards at 100% of the actual acquisition cost of the medication at the time of dispensing less a ninety-five cent processing fee per returned card. There are no card-value dollar minimums in order for a medication to be eligible for return and credit.

Diamond offers credit on full and partial blister cards. Over 70% of returned cards are partial cards.

Acting as your partner in helping reduce waste and costs, when and where permitted by the State Board of Pharmacy and the U.S. Food and Drug Administration (FDA), Diamond offers credit on oral solid medications in full and partial blister cards returned to us, provided the medications:

- Remain in their original sealed blister packs
- Have been stored under proper conditions
- Are not defaced and have not been adulterated
- Are not within 3 months of expiration
- Are packaged with one full unit per bubble
- Have not been released to the inmate population or labeled/dispensed as “keep on person”
- Are not controlled substances
- Have not been billed to a private insurance, Medicaid, U.S. Marshals Service (USMS), U.S. Immigration and Customs Enforcement (ICE), 340B, or other third party

Diamond is responsible for shipping costs for all returned medications and provides your facility with prepaid preaddressed FedEx Package Returns Program (PRP) or UPS Authorized Return Service (ARS) labels. These labels are simply affixed to the return box, which is handed to express delivery personnel during their normal pickup/delivery to your facility.

Controlled-substance medications and opened partial stock medications cannot be credited in accordance with federal regulations. Credit is issued on medications based upon the professional judgment of a Diamond pharmacist. Credit will not exceed the current market value per dose of medication eligible for return. Liquids, injectables, topicals, medications dispensed in vials, and inhalers will not be eligible for credit. Oral solid medications returned in a sealed manufacturer’s bottles will be eligible for credit in accordance with the aforementioned policy. Blister cards that are dispensed with half tablets or with more than one single unit per individual bubble of the blister card are not eligible for return. Oral solid medications dispensed as Brand Medically Necessary or Dispense as Written will be credited at the acquisition cost of the generic equivalent. Returns received at Diamond during the term of the contract by the 15th day of each calendar month will be credited on the next invoice for that calendar month. Credit memos will be deducted from payment of the oldest outstanding invoices. Medications ineligible for credit will not be returned.

9. Testing of Products

9. The County reserves the right to submit samples of products of doubtful potency or composition to a competent independent laboratory for assay, and in such cases, the cost of such assay will be paid by the supplier if products are found to be below US Pharmacopoeia, National Formulary, or Federal Standards.

Diamond acknowledges the County's right to test products believed to be of doubtful potency or composition and agrees to pay the cost of the assay should a product be found to be below U.S. Pharmacopoeia, National Formulary, or Federal standards. We also request that the results of such testing be provided to Diamond, in case further action is required on our behalf to report such incidents to the manufacturer and the FDA.

10. Final Inspection of Products

10. Final inspection of all products and decision of acceptance or rejection will be made by the County. Final inspection shall be conclusive except with respect to latent defects, fraud, or such gross mistakes as shall amount to fraud. Final inspection resulting in acceptance or rejection of the products will be made as soon as practicable, but failure to inspect shall not be construed as a waiver by the County to claim reimbursement or damages for such products which are later found to be in nonconformance with specifications.

We acknowledge the specifications listed this section and we agree to comply where applicable.

11. Monthly Billing

11. The County shall be billed monthly. The billing procedures shall allow for separate billing for inmates that are identified as I.N.S. or U.S. Marshall Inmates and that billing should go directly to the respective agency.

Invoices are printed individually. We directly bill for each inmate under another jurisdiction such as:

- U.S. Immigration and Customs Enforcement (ICE)
  - ✓ Note: As of March 1, 2003, most U.S. Immigration and Naturalization Service (INS) functions were transferred from the U.S. Department of Justice to three newly established components of the new Department of Homeland Security (DHS): the U.S. Citizenship and Immigration Services (USCIS), ICE, and U.S. Customs and Border Protection (CBP).
- U.S. Marshals Service (USMS)
- U.S. Bureau of Prisons (BOP)
- Other counties

With Diamond's direct third party invoicing, the cost of the respective medications are removed from your budget so you immediately realize cost savings.

Diamond directly invoices medical assistance, private health insurance, AIDS Drug Assistance Programs (ADAPs), federal agencies [such as U.S. Immigration and Customs Enforcement (ICE) and U.S. Marshals Service], or other sources of payment whenever a patient is eligible and when information is provided to Diamond at the time of dispensing.

Diamond will work with the facility to establish a liaison that can provide third party insurance information prior to the dispensing of prescription orders. If this information is available, then Diamond will attempt to bill the claim to the third party on your behalf. Medication claims not paid within 60 days become the responsibility of the facility.

USMS Billing

Diamond is a Heritage Health Solutions participating pharmacy and has been a preferred pharmacy partner with Heritage Health Solutions since January 2010. We have worked with them since their inception in 2005. In fact, Diamond has closely worked with Heritage to implement their National Managed Care Contract Pharmacy Program at over 100 sites across the country. We have a full and comprehensive understanding of their operations and procedures, and we are extremely confident that we can exceed the service requirements expected by your facility in working with Heritage Health Solutions.

Prescriptions submitted by these sites for U.S. Marshals Service (USMS) detainees are noted as such by the facility, and Diamond routes these appropriately for online adjudication and reimbursement. Our third party billing department monitors these claims daily for any rejections or outstanding non-formulary medications; and we handle these claims directly with the Heritage Health Solutions customer service department.

We have a pharmacist assigned directly to the Heritage account to best service USMS detainees' needs, and we have developed a very strong relationship because of our commitment to Heritage.

12. Electronic Invoices

12. Separate itemized billing and credit invoices, on-line or computerized program for billing and credits, computerized inventory control in addition to online ordering must be provided and should be used for invoice reconciliation.

In addition, the County Jail must be notified via e-mail and/or fax prior to shipment of partial orders. The e-mail or fax must list what item(s) and quantity(s) are not being shipped and when these item(s) will be available for shipment to complete the order.

Invoicing

Diamond invoices a minimum of once a month, but can invoice you more frequently upon request. Each invoice details all charges for the current month, any unpaid balances, and any credits issued in the current month. Customized invoice reports are available.

Invoices include the contract number and/or purchase order number. Each line item contains a prescription number, inmate name and identification number, medication name and strength, quantity dispensed, price, date the prescription was dispensed and prescriber name. Data within the invoice is sorted according to your preferences, such as by inmate/patient name, medication name, medication category (psychotropic, HIV, etc.), dispense date, prescriber, and cost.

Payment terms are net 30 days. Payment shall be made by check or wire transfer to Diamond within thirty days of receipt of invoice. A finance charge of one and one-quarter percent per month will be charged on all amounts received thirty days past the end of the billing cycle. Invoices are formatted as Excel spreadsheets, and you can obtain them electronically by download from our sFTP site or by hard copy.

Diamond will notify the County Jail by email, fax, or our web-based electronic reconciliation program prior to shipment of partial orders. We will list what items and quantities are not being shipped and when these items will be available for shipment to complete the order.

Credits are individually listed with the amount of credit for each item. Diamond provides a printout of all issued credits, alphabetized by patient name and including prescription number, date, medication name, quantity returned, and amount of credit issued. Diamond also invoices sites for any backup and delivery charges in an itemized format.

Shipping Manifest

Every medication shipment contains a detailed computerized delivery manifest listing patient name and identification number, prescription number, medication name and strength, manufacturer, quantity dispensed, date dispensed, facility name, and price. If you need additional information on the delivery manifest, we make every effort to accommodate your request.

Controlled-substance medications are packaged in a separate bag containing its own delivery manifest, which minimizes diversion potential.

If an ordered item is not part of the current shipment, the item and the reason for its absence (such as ordered too soon to fill, ordered past cut date, non-formulary medication) are clearly indicated on the exception report section of the delivery sheets. For sites reconciling their orders electronically, this information is automatically included in Diamond's reconciliation program and can be reviewed daily. Any shortages are corrected within 24 hours.

Items that require action by a nurse or medical provider before shipment can be reviewed before the order ships from Diamond, allowing your facility to be proactive and preventing medication delays.

13. Inventory Control

13. Inventory should be controlled by scanning orders for delivery and return.

Electronic Delivery Reconciliation & Inventory Management

✓ Our free, web-based electronic order reconciliation system is one of the many ways Diamond separates itself from the competition.

Diamond was the first to provide customers with electronic order reconciliation and electronic medication return processing. Your facility can proactively manage your medication orders with Diamond's electronic delivery reconciliation and inventory management system. Additionally, electronically tracking and reconciling your daily medication orders as well as returns/credits will help your staff minimize the diversion of received and returned medications. A comprehensive user manual is provided that details every aspect of the program's functionality.

Reconciliation Process

With our reconciliation program, you can view your daily order to see what medications cannot be shipped as it builds during the day. Reasons why an item might not be shipped include: the refill being ordered too soon, the medication not having any remaining refills, the medication being on manufacturer's backorder, and an order needing non-formulary approval.

For order reconciliation, the process works as follows:

- Each day as your orders are received at Diamond, the medications move through Diamond's workflow management system until they are prepared for shipping.
- Each medication is assigned a prescription number and a unique identifier that is embedded in the barcode label.
- When a medication is processed through the final workstation, our electronic reconciliation program will start tracking that medication.
- As your daily shipment builds at Diamond, the prescription numbers and identifiers are fed into the reconciliation program.
- Once your order is completely filled, the medications are shipped to your facility.
- When your order arrives at your facility the next day, a staff member uses his secure user ID and password to login to the system to access the reconciliation process.
- Your staff member scans each medication's barcode until the entire delivery is reconciled.
- At the end of the process, the system generates a report that lists all medications billed to your facility and notes any exceptions from your actual reconciliation at your facility.

Resolving Shortages and Exceptions

If a medication is not scanned into the system, it is listed on an exception report. Any shortages are resolved within 24 hours of order reconciliation. If no action is taken by your staff within 24 hours, a Diamond supervisor calls your facility with follow-up actions to close out any exceptions.

Electronic Invoices

Each month, Diamond can provide your invoices electronically in Excel. You can use the invoice to compare the items Diamond billed to your facility with the items you electronically reconciled (scanned) when received at your facility. Any exceptions are reported to our billing department for immediate follow-up and resolution.

Medication Return Process

The medication return process also uses scanned barcodes and works the same as the reconciliation process.

- When you are ready to return medications for credit or disposition, your staff opens that function in the reconciliation program.
- Your staff member scans the label on each medication you are sending back to Diamond for credit or disposition.
- Our system captures the information, stores it perpetually, and provides you with an electronic record of all items processed under that particular medication return session.
- The data can be exported to Excel, and you can print a hard copy document for your records if you wish.
- Each month, we can electronically send our credit report to your facility in Excel.
- You can compare our credit report to your electronic file that lists your returned medications.

By electronically handling all medication reconciliation and returns, your facility has an audit trail of all medications received at the facility and a complete accountability of all medications returned for processing and disposition.

Data Storage

The system records the user scanning each item and the exact date and time each item is scanned to acknowledge receipt of that item and provide documentation. All reconciliation and return information (including prescription number, date shipped, and medication name) is stored perpetually in our system to allow users to easily search all reconciled medications.

Advantages over Manual Reconciliation

Our electronic system has many advantages over manual reconciliation. Because each authorized user accesses the system using a unique and secure user ID and password and each reconciliation session is captured electronically, you will know who reconciled each order. Barcode scanning allows data to be entered easily, but users also can manually enter data if they choose.

14. Reports

14. Supplier shall have the ability to generate the following reports:

i. Tracking of usage of medications by inmate, specific doctor, or specific medication
ii. Online invoicing
iii. Itemized incoming deliveries
iv. Online credits and online returns
v. Overall credit % per time period requested
vi. "Ad hoc" reports

Standard Reporting

Analyzing monthly utilization, formulary management trends, medication expenditures, clinical service metrics, polypharmacy information, and your clinicians' overall prescribing habits is critical for properly managing your budgetary dollars as well as for ensuring proper care and maximizing positive patient outcomes. Both the facility and administrative levels need accurate and dependable reporting, where data is presented in a user-friendly and easy-to-understand format.

Diamond, the longest tenured and most experienced provider in the industry, has gained a wealth of knowledge over the past three decades developing reports that are accurate and meaningful, informative, and tailored to meet the specific needs of our customers. The high quality and useful features of our reports have resulted from **our willingness to listen to our customers for suggestions and ideas** regarding data that is most helpful for their daily operation. We collaborate with prescribers, nurses, and administrators to develop additional reports that provide information based on your operation's specific needs.

Your facility will have access to over 300 standard reports/charts, **and we will provide all of the reports indicated in this requirement**. However, Diamond can customize and create reports to meet your facility's specific needs. Data fields include patient name, inmate/patient number, correctional facility, provider name, date of service, prescription number, medication name, medication class, medication strength, quantity dispensed, number of days supplied, and drug cost. Basic, ad hoc, requested, and customized reports are all provided at no additional cost.

Ad Hoc Reports

In addition to our standard monthly, quarterly, and annual reports, Diamond provides ad hoc reports upon request. Most ad hoc reports are provided within 1-2 business days, depending on complexity. However, reports requested by your security staff to help search for diverted medications usually can be provided in less than an hour.

Presentation

Your reports can be provided in hard copy or electronically in Microsoft Excel. Diamond presents statistical data visually so you can easily recognize usage, trends, and outliers with a quick glance at the reports.

Compliance

All reports are provided, maintained, and disposed of in compliance with all federal and state laws and department policies and procedures including Health Insurance Portability and Accountability Act (HIPAA) regulations.

Examples of Diamond Standard Reports

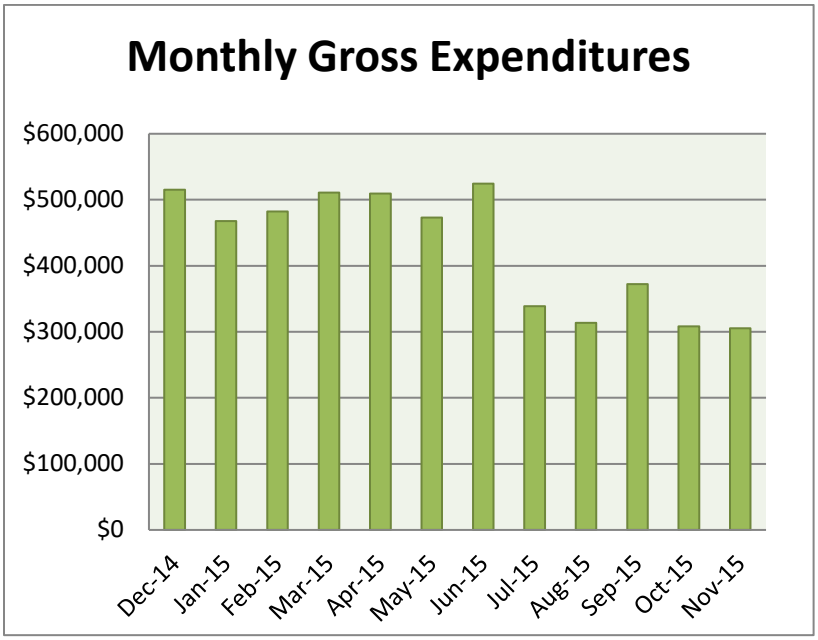
Examples of Diamond's Standard Reports	
Patient Census	Number of inmates who received medical care that month
Total Monthly Costs	Gross cumulative monthly total of Diamond's invoices to your facility (includes all stock and prescription medications, formulary and non-formulary drugs, health-care supplies, and the costs of any STAT deliveries)
Total Monthly Costs Less Credits	Gross cumulative monthly total with deductions for credits issued for returned medications, healthcare supplies, etc.
Total Monthly Cost Per Patient Less Credits	Net invoiced cumulative monthly total costs divided by the number of patients who received care that month
Total Non-Formulary Prescription Orders	Number of non-formulary orders shipped to your facility each month
Non-Formulary Costs	Number of non-formulary prescriptions you received and cumulative monthly spending for these medications

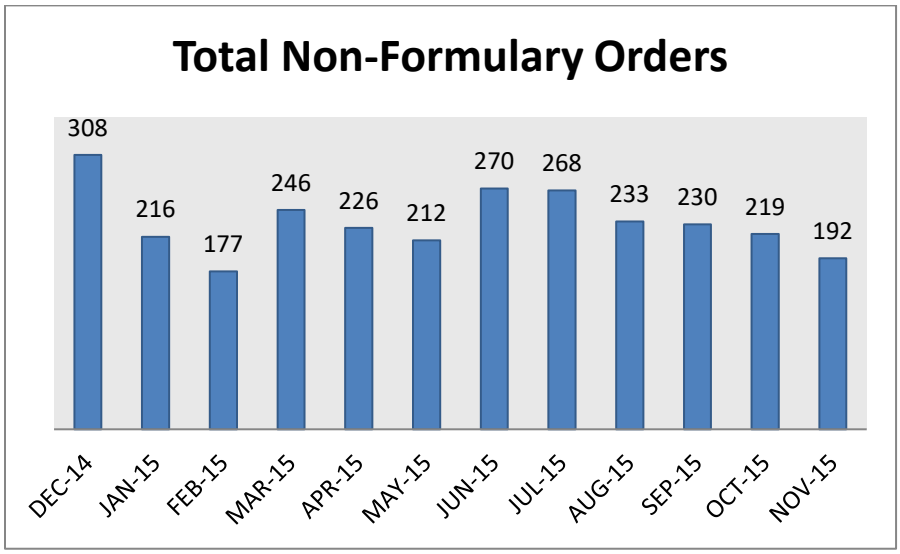
Examples of Additional Diamond Reports

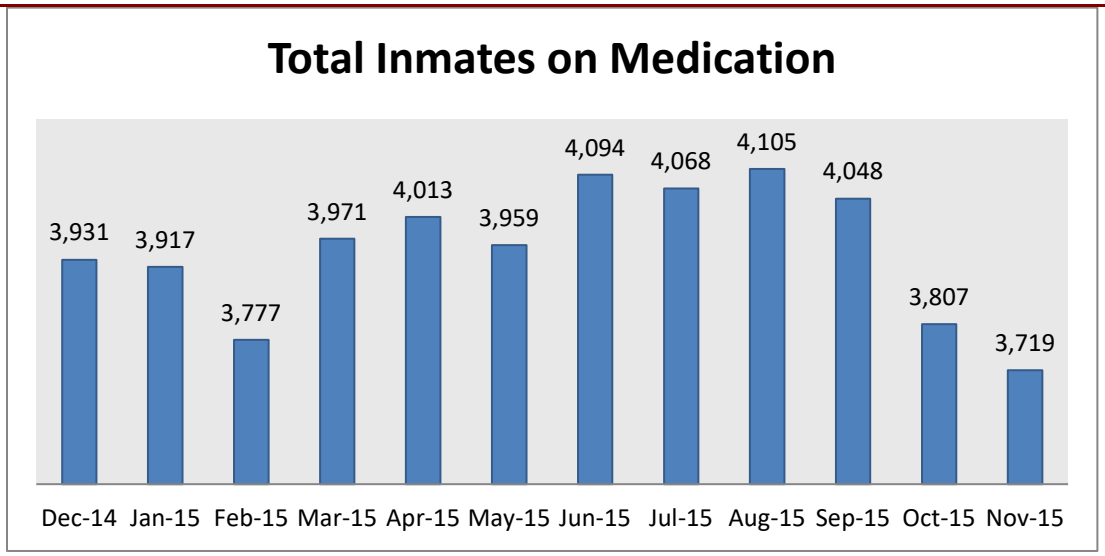
Examples of Diamond Reports that Help Manage Costs and Improve Patient Care		
General		
Detailed patient profiles	Computerized medication administration records (MARs)	Side effects and medication interactions
Medication therapeutic classification	OTC medications	Brand vs. generic details
Medications by drug name, physician, therapeutic class, control status, etc.	Continual controlled substances inventory and dose count	
Utilization/Usage		
Medication utilization report	Monthly medication usage per inmate	Number of prescriptions per inmate
Percentage of inmates on medications	Monthly psychotropic usage report	Percentage of inmates on particular classes of medications such as controls, psychotropics, etc.
Patient medication allergy and medication interaction alerts	Patients on medications known to produce adverse side effects when exposed to high temperatures or the sun	High to low usage by quantity dispensed by medication, psychotropics, and OTCs
	Usage (psychotropics, HIV, controlled substances, etc.)	
Ordering/Dispensing		
Medications and quantities ordered	Number of doses dispensed	Total doses dispensed per inmate
Number of new and refill prescriptions dispensed	Formulary vs. non-formulary medications dispensed	Management data, including medications ordered, processed, delivered, and disposed
Monthly refill reminders	Notification of medications reordered too soon	
Costs		
Medication cost summaries	Top 10 most expensive patients	Cost-containment recommendations
Invoices containing medication name, national drug code (NDC), and average wholesale price (AWP)	Itemized credit report showing prescription details and credits for returned medications	High to low usage by dollar amount of formulary and non-formulary dispensed medications

Report Examples

The samples reports in this proposal represent only a small sample of Diamond's commonly requested reports. Diamond sets the industry standard in terms of reporting capabilities and the value provided to our customers through our commitment to accurate and meaningful reports.






Total Inmates on Medication
3,931
3,917
3,777
3,971
4,013
3,959
4,094
4,068
4,105
4,048
3,807
3,719
Dec-14
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Mar-15
Apr-15
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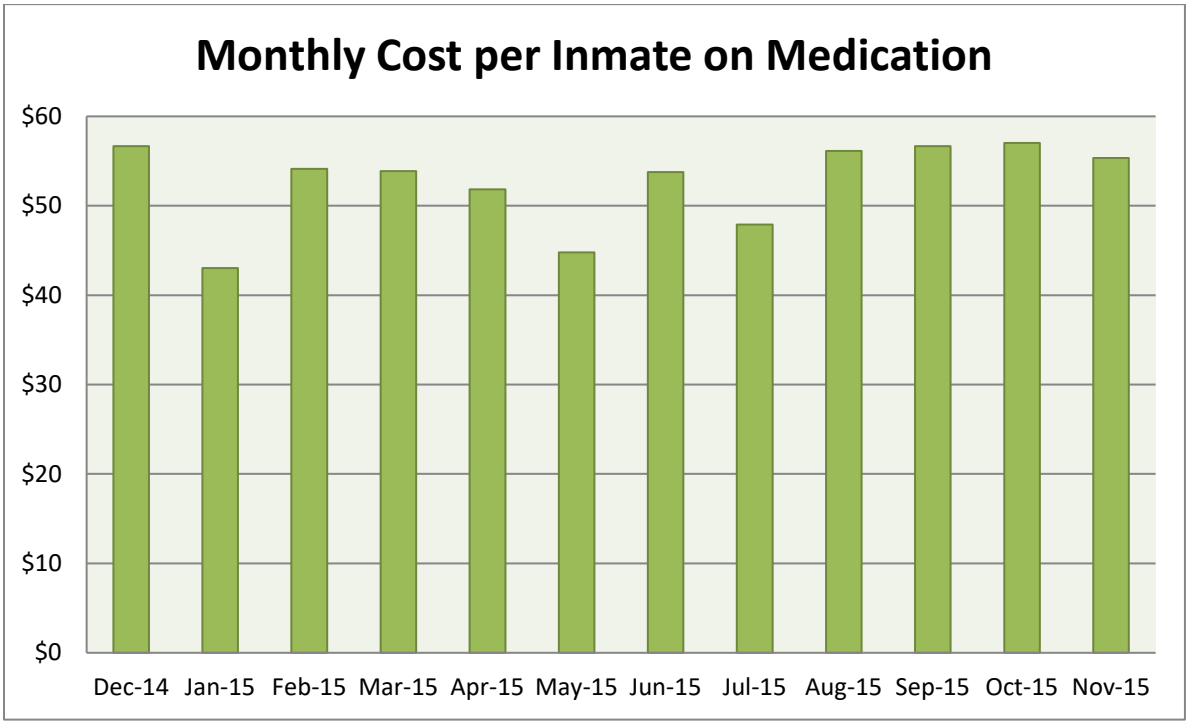
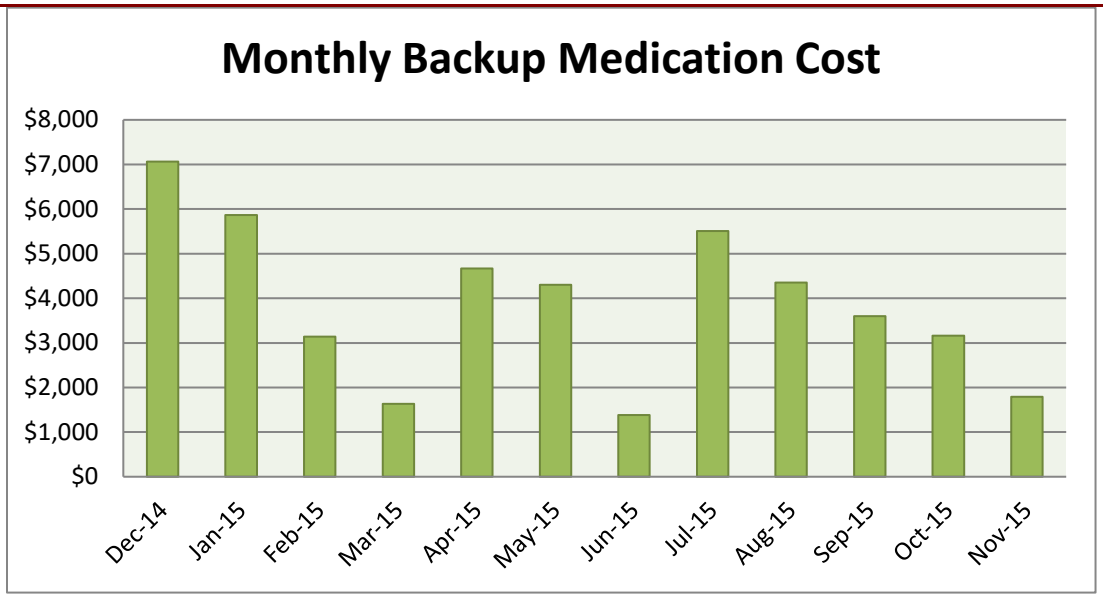
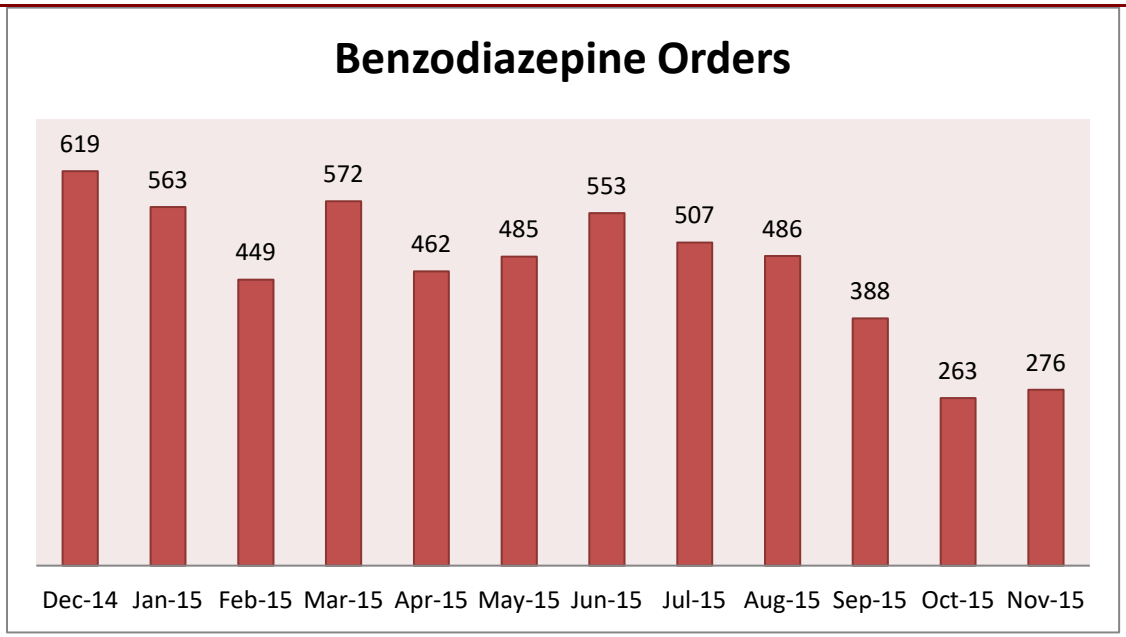
Aug-15
Sep-15
Oct-15
Nov-15


Monthly Cost per Inmate on Medication
$60
$50
$40
$30
$20
$10
$0
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15



SAMPLE REPORT OF MONTHLY BACKUP EXPENDITURES

Date Filled	Patient	Qty	Drug Name	Price	Facility	Prescriber	RX Number	NDC
10/01/2015	SAMPLE	4	BELLA/OPIUM SUP 16.2-30	105.38	MDOC 1	PRESCRIBER	SAMPLE	00574704512
10/29/2015	SAMPLE	3	CARTIA XT CAP 120/24HR	7.59	MDOC 2	PRESCRIBER	SAMPLE	62037059790
10/14/2015	SAMPLE	10	CIPRO HC SUS OTIC	259.45	MDOC 3	PRESCRIBER	SAMPLE	00065853110
10/22/2015	SAMPLE	3	CIPROFLOXACN SOL 0.3% OP	12.92	MDOC 4	PRESCRIBER	SAMPLE	50383028202
10/11/2015	SAMPLE	8	ELIQUIS TAB 5MG	50.40	MDOC 5	PRESCRIBER	SAMPLE	00003089421
10/25/2015	SAMPLE	3	FYCOMPA TAB 8MG	69.08	MDOC 6	PRESCRIBER	SAMPLE	62856027830
10/14/2015	SAMPLE	60	HYDROCO/APAP TAB 10-325MG	27.04	MDOC 7	PRESCRIBER	SAMPLE	00406012505
10/08/2015	SAMPLE	60	HYDROCO/APAP TAB 10-325MG	27.04	MDOC 8	PRESCRIBER	SAMPLE	00406012505
10/16/2015	SAMPLE	28	HYDROCO/APAP TAB 5-325MG	21.15	MDOC 9	PRESCRIBER	SAMPLE	00406012305
10/06/2015	SAMPLE	42	KEPPRA XR TAB 500MG	293.66	MDOC 10	PRESCRIBER	SAMPLE	50474059866
10/09/2015	SAMPLE	6	LABETALOL TAB 100MG	5.99	MDOC 11	PRESCRIBER	SAMPLE	00591060501
10/03/2015	SAMPLE	6	LABETALOL TAB 200MG	6.97	MDOC 12	PRESCRIBER	SAMPLE	43199003801
10/12/2015	SAMPLE	7	LOSARTAN POT TAB 100MG	1.82	MDOC 13	PRESCRIBER	SAMPLE	65862020390
10/14/2015	SAMPLE	345	METHADONE TAB 10MG	111.04	MDOC 14	PRESCRIBER	SAMPLE	00406577101
10/06/2015	SAMPLE	21	OXCARBAZEPIN TAB 600MG	33.52	MDOC 15	PRESCRIBER	SAMPLE	68462013901
10/01/2015	SAMPLE	60	OXYCODONE TAB 10MG	23.96	MDOC 16	PRESCRIBER	SAMPLE	10702005601
10/30/2015	SAMPLE	60	OXYCODONE TAB 10MG	23.40	MDOC 17	PRESCRIBER	SAMPLE	68382079401
10/08/2015	SAMPLE	60	OXYCODONE TAB 20MG	41.65	MDOC 18	PRESCRIBER	SAMPLE	68382079601
10/15/2015	SAMPLE	180	OXYCODONE TAB 30MG	132.29	MDOC 19	PRESCRIBER	SAMPLE	00406853001
10/15/2015	SAMPLE	90	OXYCODONE TAB 80MG ER	1,221.94	MDOC 20	PRESCRIBER	SAMPLE	49884019701
10/25/2015	SAMPLE	9	PENTASA CAP 500MG CR	50.04	MDOC 21	PRESCRIBER	SAMPLE	54092019112
10/01/2015	SAMPLE	1	TAKE ACTION TAB 1.5MG	43.82	MDOC 22	PRESCRIBER	SAMPLE	51285010088
10/16/2015	SAMPLE	284	THICK-IT POW ORIGINAL	11.30	MDOC 23	PRESCRIBER	SAMPLE	72058061078
10/17/2015	SAMPLE	45	TRAMADOL HCL TAB 50MG	9.16	MDOC 24	PRESCRIBER	SAMPLE	16714011111
10/21/2015	SAMPLE	6	VIMPAT TAB 100MG	71.69	MDOC 25	PRESCRIBER	SAMPLE	00131247835
10/06/2015	SAMPLE	14	VIMPAT TAB 100MG	161.28	MDOC 26	PRESCRIBER	SAMPLE	00131247835
10/23/2015	SAMPLE	3	XARELTO TAB 20MG	38.89	MDOC 27	PRESCRIBER	SAMPLE	50458057930
10/27/2015	SAMPLE	3	XARELTO TAB 20MG	38.89	MDOC 28	PRESCRIBER	SAMPLE	50458057930
10/29/2015	SAMPLE	12	ZONISAMIDE CAP 100MG	11.40	MDOC 29	PRESCRIBER	SAMPLE	31722022801


Benzodiazepine Orders
619
563
449
572
462
485
553
507
486
388
263
276
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
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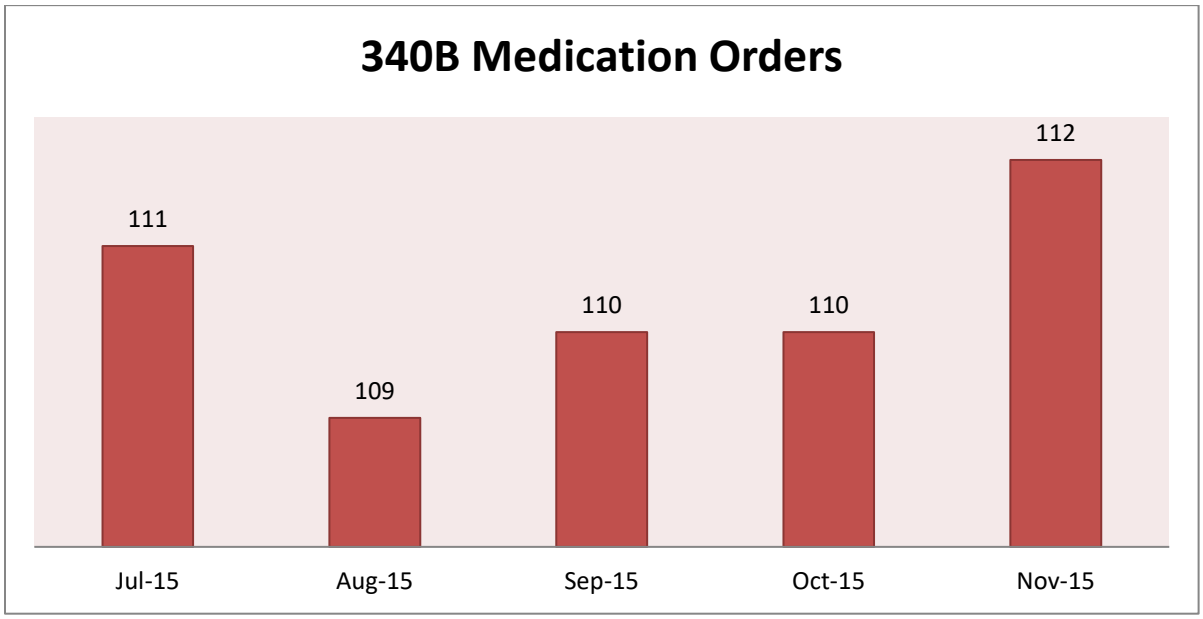
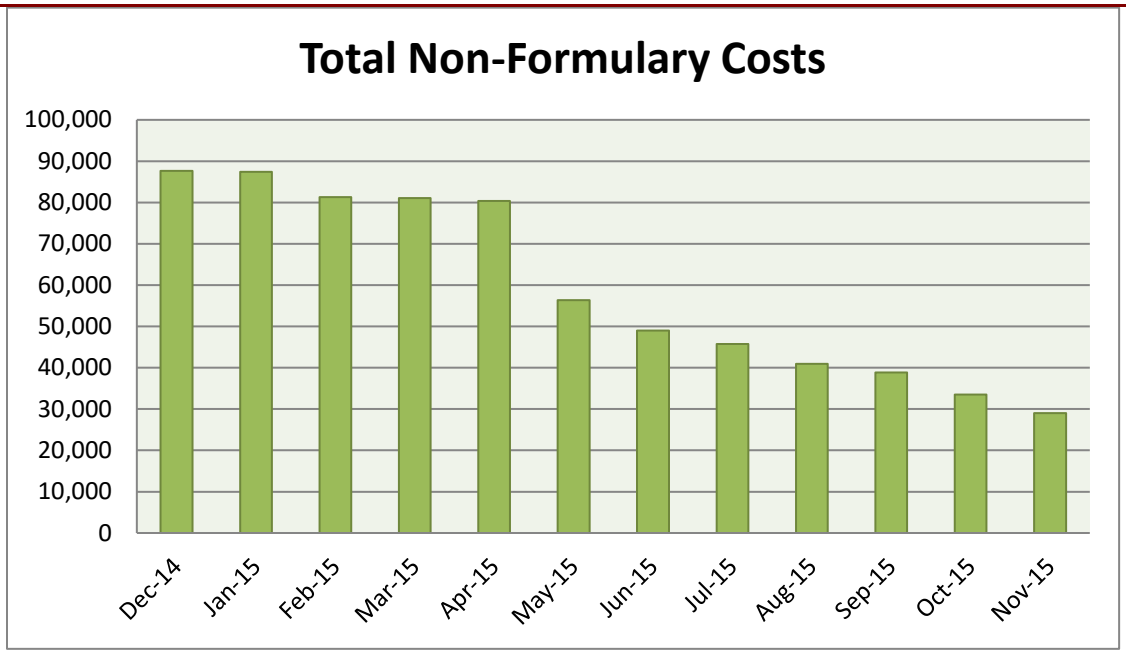
Aug-15
Sep-15
Oct-15
Nov-15

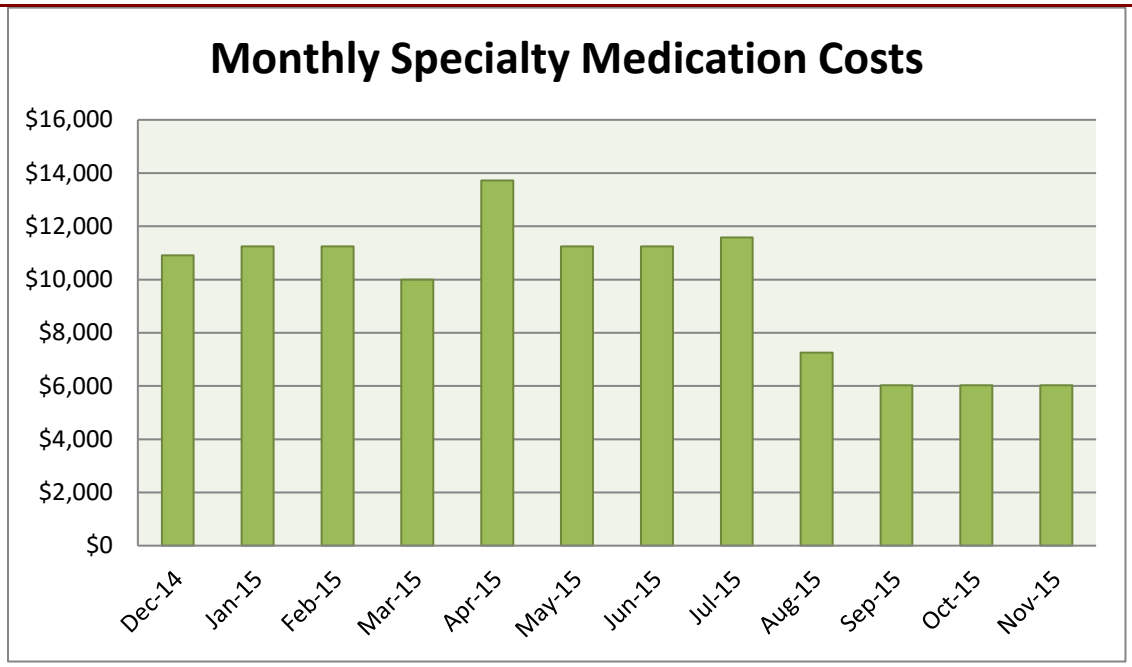

340B Medication Orders
111
109
110
110
112
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15



HIGH PRICE MEDICATION REPORT

First Name	Last Name	Inmate #	Facility Name	RX#	Quantity	Price	Date Filled	Medication	Prescriber Last
AAA	CCC	567890	CORRECTIONAL	456321	3.92	2853.45	4/6/2015	Enbrel 50mg/ml Syringe	PRESCRIBER

This report was created to alert Diamond's pharmacist account executives and facility personnel of high priced prescription activity for the facilities they manage. This report is created on the top of the hour of all medications dispensed by Diamond in the previous hour over a particular price point. The high end price report is customized to meet the facility needs and allows the facility to manage its costs by requesting a lesser amount of a particular medication along with alerting staff in advance of the medication being shipped so an alternative may be considered by prescribers. In those cases wheere an alternative is not available orif the full amount is needed, then the report provides benefit in alerting staff to be aware that the high priced medication will be in their next delivery so staff can be on the lookout for the medication to prevent loss or diversion.



Sample credit report										
Rx Number	Date Filled	Facility	Patient Name	Medication	NDC	Date Returned	Qty Returned	Unit Price	DPS Bill Amt	Credit
sample	09/26/15	MDOC 1	patient	IBUPROFEN 200MG TAB (30)	49349-0794-02	10/16/15	20.00	0.0107	$2.35	$0.21
sample	09/11/15	MDOC 1	patient	APAP 325MG TAB (30)	24236-0980-02	10/16/15	28.00	0.0047	$2.15	$0.13
sample	10/05/15	MDOC 4	patient	LAMOTRIGINE 100MG TAB	29300-0112-10	10/16/15	59.00	0.0450	$6.10	$2.66
sample	09/12/15	MDOC 8	patient	LEVETIRACETAM 500MG TAB	16729-0065-16	10/16/15	9.00	0.0780	$5.74	$0.70
sample	10/06/15	MDOC 2	patient	LISINOPRIL 5MG TABLET	16729-0195-17	10/16/15	28.00	0.0100	$3.70	$0.28
sample	10/06/15	MDOC 3	patient	CLOPIDOGREL 75MG TABLET	33342-0060-15	10/16/15	28.00	0.0713	$5.54	$2.00
sample	10/06/15	MDOC 4	patient	CARVEDILOL 3.125MG TABLET	65862-0142-05	10/16/15	58.00	0.0270	$5.02	$1.57
sample	10/06/15	MDOC 5	patient	ATORVASTATIN 40MG TABLET	55111-0123-05	10/16/15	28.00	0.1287	$7.26	$3.60
sample	10/06/15	MDOC 6	patient	ASPIR-LOW 81MG EC TABLET	00904-7704-80	10/16/15	28.00	0.0047	$3.54	$0.13

DIAMOND PHARMACY SERVICES COST AVOIDANCE AND THERAPEUTIC ALTERNATIVE REPORT

Date range:	December 2015
Target Medication(s):	Lantus
Target Facility(ies):	ABCDE

Medication	Number of Units Dispensed	Cost of Units Dispensed	Recommended Alternative	Projected Cost of Alternative	Projected Cost Avoidance per Year
Lantus	20 vials	$4,360.00	Humulin N	$255.00	$49,280.00

Recommended Plan of Action:

Meet with medical director to review plan of implementation

Report provided by:	Pharmacist
Phone number:	800-882-6337
Email contact:	pharmacist@diamondpharmacy.com

15. Interface

15. A computerized program interface linking the County Jail to the supplier must be available. Provide a detailed description of interface including any software and/or hardware that is required. If software and/or hardware are required, state whether it will be provided by the supplier or must be provided by the County.

Sapphire CPOE/eMAR

Diamond will provide your facility with our Sapphire computerized prescriber order entry (CPOE) and electronic medication administration record (eMAR) software **at no additional cost** when your facility orders all medications from Diamond and places all orders using Sapphire.

Sapphire is a state-of-the-art system that we designed in-house to meet the specific needs of correctional facilities. Using Sapphire CPOE/eMAR, your staff can transmit electronic orders quickly and easily. This paperless solution allows physicians to directly transmit electronic prescription to the pharmacy for processing. Sapphire gives your physicians and nurses immediate, real-time access to all patient information.

Advantages of Sapphire

Sapphire is a completely hosted solution, meaning you do not need an onsite server or any additional system hardware to access and use the system, and you do not need to hire costly additional IT staff to deploy and then maintain the system.

Reliability – Our hosted solution brings with it a load-balanced architecture, redundancy across data centers, and 99.95% uptime. In other words, we are responsible for ensuring our software is always running and the application is always available to our customers. Sapphire has a robust backup, recovery, and redundancy system to deal with power outages, hardware issues, offsite storage, threat protection, and network outages.

Maintenance – Ongoing maintenance, upgrades, and system monitoring require IT resources and an internal commitment to maintain new releases and patches. With a hosted software solution, you can keep your internal resources focused on your important projects and leave the ongoing maintenance items to our team.

Cost – Traditional software implementations can cost large sums of money in terms of fees and costs related to implementation, hardware, licensing, and ongoing maintenance. Hosted software solutions help you realize a lower total cost of ownership with benefits such as the following:

- You will not need to hire extra IT staff.
- Implementation will be faster.
- Your IT department needs to be involved very little or not at all.

Lower risks – The investment made in a hosted system is minimal. You are not burdened with the hardware, operating systems, software, and IT personal if you decide to switch to another solution at some point in the future.

Additional Advantages

Sapphire will reduce human error, improve efficiency, eliminate paper-processing, assist with inventory, and provide unparalleled reporting. Sapphire is a complete system for both order entry and eMAR, thus eliminating the need for costly nursing overtime for month-end changeovers and for printing paper MARs during the month with every change in medication order. A manual paper MAR process also consumes a significant amount of nursing time that could be spent on patient care. Purchasing and maintaining systems that are not nearly as dynamic and robust as Sapphire would cost tens-of-thousands of dollars. **Through Sapphire, Diamond provides our customers a tremendous value with no financial risk!**

As a side note, our industry experience suggests you likely received proposals from bidders promoting eLinkRx, eCorrRx, or CIPS REMOTE as a solution. Although adequate for order entry, basic ordering, basic reporting, and the ability to print a paper MAR each month **(that still requires your staff to conduct a time-consuming manual and paper med pass**), they are not comparable to a complete electronic ordering, inventory management, and eMAR system. The advantages of Sapphire are numerous compared to eLinkRx, eCorrRx, or CIPS REMOTE.

A **live demonstration**, in person or by webinar, is the best venue for comparing bidders' systems. During a demonstration, your evaluation team and ultimate system users will see the **many differences between Sapphire and other bidders' systems**. The demonstration will also serve as an interactive forum for questions and answers. You honestly cannot appreciate the value that Sapphire provides and Sapphire's enhancements over other systems unless you see these systems demonstrated for yourself.

This current solicitation affords your team an opportunity that may not be available at another time. Selecting the proper long-term system for your facility will increase your staff's productivity, provide cost savings, and improve clinical outcomes while decreasing your reliance on outdated and cumbersome manual processes.

Before finalizing your contract award decision, we ask your committee to please allow us the opportunity to offer your team a Sapphire demonstration. Once you see all the benefits and dynamic features of Sapphire, you will not want to use any other system for order entry, inventory management, order reconciliation, live reporting, or electronic medication pass.

Diamond-serviced facilities that use Sapphire have been able to decrease the time needed for med pass by 50% or more, **so nursing staff can dedicate more time to patient care and nursing duties**. Please note that Sapphire is not a beta system. Sapphire CPOE/eMAR is fully deployed and well established in over 250 facilities nationwide, including the Minnesota, Pennsylvania, and Virginia Departments of Corrections and several large county systems. **These extensive systems have realized and learned to appreciate the numerous benefits of Sapphire.** We hope that the Williamson County Jail will also realize and enjoy those same benefits.

We have provided extensive information regarding our Sapphire eMAR/CPOE system under "Diamond Software Systems."

Sapphire is fully HIPAA-compliant. In addition, because Sapphire is owned and provided by Diamond, you will not need to worry about third-party licenses. We will provide this software for all individuals who need access to perform their duties accurately and efficiently.

We will also provide Williamson County with two laptops on loan for the deployment of the Sapphire system at no extra cost.

16. Quarterly Inspections

16. Supplier shall provide on-site quarterly inspections by a registered Pharmacist at no additional charge upon request by the County.

Inspections

Diamond's fully credentialed licensed pharmacist or a locally credentialed licensed pharmacist will conduct quarterly inspections of the medication rooms in your facility. The inspection helps to ensure that your facility complies with all relevant federal, state, local, and pharmacy laws and regulations; the Controlled Substance Act; the Texas Board of Pharmacy; and National Commission on Correctional Health Care (NCCHC), American Correctional Association (ACA), and the Joint Commission requirements and standards.

Our two-page inspection sheet is based on NCCHC, ACA, and Joint Commission standards and our 35 years of experience in the correctional industry. Diamond abides by all recommendations set forth by these organizations, as well as all applicable federal, state, and local rules and regulations.

During the inspection, a licensed pharmacist reviews the following:

- The cleanliness and organization of the medication rooms
- Medication ordering, charting, documentation, inventory, and record keeping
- Narcotic and sharps record keeping and counts
- The presence or absence of outdated, discontinued, or recalled medication
- Medication distribution and med pass procedures
- The contents of the emergency (ER) kit and/or crash cart
- Refrigerator temperature and contents
- Stock levels
- The pharmaceutical care of patients
- Medication utilization and individual therapies
- Appropriate storage and security of medications and supplies
- Periodic reviews/stop dates of controlled substances and abusable drugs
- Presence and appropriate use of formulary
- Existence of and compliance with appropriate policies and procedures for medications
- Current reference materials such as the *Physicians' Desk Reference* (PDR), *Nursing Drug Handbook* (NDH), poison control center information, do-not-crush lists, etc.

The inspection report includes observations, recommendations, and suggested corrective actions. Once completed, the report is signed and dated by the pharmacist and nurse (or nurse designee) and filed in the medical room for reference. A copy is maintained at Diamond.

Following the inspection, the results of the audit are discussed with the nursing supervisor, designee, or site administrator. Summaries of the inspections are presented at pharmacy and therapeutics (P&T) meetings. On subsequent inspections, Diamond reviews all previous recommendations to ensure compliance and to ensure that corrective action was taken.

17. Award Criteria

17. Evaluation of proposals will be made to the responsive or responsible Pharmaceutical Supplier submitting the overall best proposal, with 40% of the evaluation weighted criteria on having the lowest cost consisting of the current average wholesale price (AWP) minus percent (%) discount plus a dispensing fee (if applicable). Alternative pricing models may be considered. The publication used to determine average wholesale price should be provided by each proposer. In addition, 30 % of the evaluation weighted criteria will be on meeting specification requirements, and 30 % of the evaluation weighted criteria on vendor submitted references and vendor experience working with correctional facilities.

Diamond acknowledges the evaluation criteria set forth in this specification.

18. Services Included in Price

18. Proposers overall mark-up prices shall include cost of shipping and delivery of the pharmaceutical item to the designated delivery point and shall not include Federal or State of Texas sales, excise, and use taxes.

Diamond's bid is inclusive of shipping and delivery of routine orders and does not include any taxes. Any delivery costs that are incurred by the facility for the delivery of emergency medications from a backup pharmacy will be billed at the actual cost invoiced by the backup without additional markup from Diamond. Diamond's use of emergency medication kits and startup stock kits significantly reduces the need for use of a backup pharmacy.

19. Price List

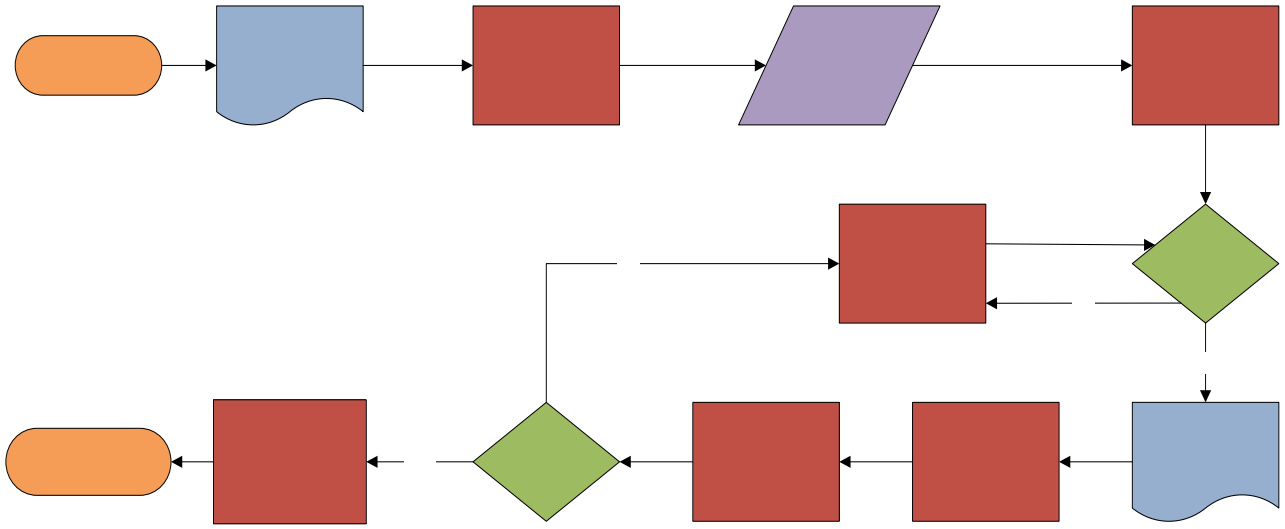
19. Proposer shall provide three (3) price list copies plus one original with their proposal.

Please see the price list we completed on BidSync, consistent with bid instructions.

20. Ordering

20. The preferred order method for new prescriptions and refills shall be online, however, orders placed by fax or phone shall be accepted. Additionally, emergency "stat" ordering shall be done by phone.

Ordering



Diamond offers unsurpassed flexibility in ordering medications. Customers can order by phone or fax using Diamond's toll-free number. Customers also can order electronically from an existing electronic medical record used by your facility or from Sapphire, a proprietary web-based medication management system developed by SapphireHealth, LLC, a wholly owned Diamond subsidiary. Orders can be submitted to Diamond Pharmacy Services 24 hours a day, 7 days a week, and 365 days a year (24/7/365).

Details of our Sapphire system are provided in the document we uploaded separately to BidSync. Emergency stat orders can be phoned into Diamond or simply submitted electronically in Sapphire to save your facility time.

21. Delivery

21. Delivery of all items supplied under this contract shall be made FOB destination. The proposer shall provide next day delivery for all items ordered by 4:00 PM the previous day. Deliveries shall be made Monday through Saturday. Orders received by vendor on Saturday shall be delivered on Monday.

Routine Order Cutoff Times

New orders can be submitted by fax, by phone, or electronically before your daily extended routine order cut-off times:

- 4:00 p.m. CST/CDT (5:00 p.m. EST/EDT) Monday through Friday
- 1:00 p.m. CST/CDT (2:00 p.m. EST/EDT) Saturday

Late orders that are needed in your next shipment can be submitted by phone directly to your order entry technician before:

- 5:00 p.m. CST/CDT (6:00 p.m. EST/EDT)

	Submittal	Delivery
Routine Orders	Prescriptions submitted to Diamond by fax, phone, or electronically by 4:00 p.m. Mon-Fri and by 1:00 p.m. Sat	Orders delivered to the Williamson County Jail by our preferred carrier the next business day by 10:30 a.m. Mon-Fri and 12:00 noon Sat. Based on facility location, some may have a 4:30 p.m. weekday guarantee time and no Saturday delivery.
Emergency Orders	Prescriptions submitted to Diamond by emergency fax, through Sapphire CPOE, or by phone for immediate need (including after hours, Sundays, holidays)	Orders filled using the on-site stat box and starter stock or within 4 hours through a contracted local backup pharmacy

If our proposed times do not meet your operational requirements, please let us know so later cutoff times can be negotiated

Next-Day Delivery

Orders are shipped for next-day delivery 6 days a week—Monday through Saturday—excluding certain nationally recognized holidays—New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas. Package delivery services do not initiate shipments on Sundays.

Diamond has shipping contracts with all three leading next-day delivery services—FedEx, UPS, and the U.S. Postal Service (USPS). If for some reason one carrier is not adequate for your facility, Diamond can select another. All shipments require a signature upon delivery at the facility.

Guaranteed Delivery Times

All new medication orders are shipped for next-day delivery with a guaranteed delivery time of 10:30 a.m. Monday through Friday and 12:00 p.m. on Saturdays. A contracted local backup pharmacy processes all emergency orders that require Sunday delivery.

22. Records Maintenance

22. Supplier will be required to maintain all records for five (5) years. These records shall be the property of the county.

Diamond retains all facility records as confidential and appropriately maintains Individually Identifiable Health Information (IIHI). We maintain all appropriate documentation, including but not limited to prescription records, prescribing patterns, usage, inventory records, medication destruction, controlled medication, perpetual inventory, patient profiles, and copies of all prescriptions. Diamond retains all records related to your facility in a safe, secure, and redundant environment for a period of at least seven years.

All documentation related to Diamond's performance is maintained in an orderly fashion and is readily retrievable. These records are open for review by the appropriate prison staff or appointed designee.

Diamond retains all records regarding your facility in a safe, secure, and redundant environment for a period of at least 7 years.

23. Customer Service

23. The proposer's representative must be available to respond to all calls from the using county agencies to assist in filling emergency orders, resolving complaints and problems regarding orders and deliveries and the return of goods.

Hours of Operation

Diamond Pharmacy Services is open 24 hours a day, 7 days a week, and 365 days a year ("24/7/365"), so Diamond's staff of **regularly scheduled** pharmacists is always available to:

- Receive, process, and ship prescription orders
- Answer questions and handle customer concerns
- View patient profiles
- Access databases to ensure safe and effective therapeutic decisions

Diamond Pharmacy Services is open 24 hours a day, 7 days a week, and 365days a year.

We regularly schedule pharmacists onsite so they are **available around-the-clock**, which is much safer and more convenient than locating someone offsite or waking them in the middle of the night. You will not need to submit a clinical concern or operational question through a website and wait for a response or awaken an on-call pharmacist. Using Diamond's toll-free number, 800-882-6337, you can always reach a pharmacist by phone directly or through Diamond's after-hours answering service. A registered pharmacist will answer your call in a timely manner 24/7/365. Regularly scheduled pharmacists continuously provide routine and emergency operational and clinical consultations on all phases of Diamond's institutional pharmacy operation.

Customer Service & Support

Diamond takes pride in our organization as well as in every customer and patient we service. Diamond's goal is to provide the highest level of service possible, starting with the owners of our company, and instilled in all our employees. Our steady growth is mainly due to word of mouth regarding our high level of customer service.

Some of our core principles include:

- Ensuring that a managing pharmacist is on duty and regularly scheduled 24/7/365
- Ensuring that customers receive a superior level of service
- Routinely consulting with facilities about their needs and wants
- Looking ahead to what customers may have or need in the future by anticipating the market
- Building long-term and sincere relationships to benefit our customers while delivering high quality and superior customer value
- Promoting existing and new products and services
- Maintaining a fully staffed call center for immediate response to customer calls and requests
- Following up calls with facilities until issues are completely resolved
- Surveying facilities to continually improve all levels of service

At Diamond - ***We Care About Care***! Much has changed since Diamond opened for business, but one thing that has remained constant is our commitment to provide our clients and patients with superior value, competitive pricing, unparalleled service, and unsurpassed care. This commitment is the company's core value and is as much a part of our culture today as it was in 1970.

We will not make promises we cannot keep because our relationship with our customers is far too valuable to jeopardize with false promises. We will always be upfront and honest regarding our capabilities and our limitations, and we promise to always work hard on your behalf to provide you with innovations and solutions. Through our honest approach to business, coupled with values you find only in a family-owned business, we will deliver on our commitments and exceed your expectations.

Excellence in customer support can honestly be claimed by a company only if they commit the resources and staff to back up their claims. Diamond realized many years ago that customer support is critical to our success, and having fully staffed customer support department with supervisory personnel is essential to customer service excellence. While others vendors may claim they provide customer support, Diamond ensures we have properly trained and experienced personnel to assist your staff when an issue or question arises.

We continually educate our customer care staff to meet the demands of an ever-changing market in a sincere and professional manner to better serve you. Our commitment to our customers is a commitment to a 24-hour a day, 365-day a year operation, with regularly scheduled pharmacists and in-house staff. Diamond continues to invest resources into customer service.

Diamond does not operate a call center. Our customers do not have to wait before talking to a Diamond employee who is trained and ready to help. Diamond employees are ready to hear your concerns and service your needs.

Our customer service department is headed by our Director of Customer Service, who oversees a staff of six full-time customer service technicians that provide our customers with immediate assistance over the phone or triage their calls and direct them to the appropriate department to service the customers' needs. At Diamond, you will not be routed through a computerized phone directory; rather, you speak directly with technicians who are hired to provide customer service as their sole job description.

Likewise, customers are not kept on hold and we have little to no problem with dropped calls. Our customer service technicians and order entry technicians efficiently and accurately handle approximately 15,000 calls per month to the satisfaction of our clientele.

24. Phone Numbers

24. The proposer shall provide a local telephone number or a toll-free number from Georgetown, Texas for the placement of calls against this contract and shall provide the name, title, and telephone number of a representative who can be contacted and available to provide around-the-clock, 24-hour, 7-days a week, customer service. Telephone numbers provided for this purpose shall not be serviced through an answering machine or other automatic answering device, or in any manner to impede immediate access to a representative capable of addressing emergencies and problems.
i. Name_____
ii. Phone Number_____
iii. Emergency Order Phone Number_____
iv. Fax Number_____

Name	.Tammy Conroy, RPh, CCHP
Phone Number	800-882-6337 x2100
Cell Number	800-882-6337 x2100
Emergency Order Phone Number	888-520-2500
Fax Number	866-307-9748

25. Purchase Orders & Invoices

25. All orders will be placed through the issuance of a purchase order. The purchase order number must be referenced on all invoices submitted to Williamson County.

Diamond agrees to reference purchase order numbers on all invoices.

26. Experience

26. Williamson County would prefer a vendor with substantial experience working in correctional facilities. Please provide your firm's years of experience in a correction's environment.

Organization and Employees

✓ Providing fully staffed, individually supervised support departments with specially trained staff is one of the many ways Diamond ensures that our customers receive the highest level of technical and administrative support.

Diamond's corporate structure is based on a team approach. We are organized specifically to fulfill your needs and apply our 35 years of correctional pharmacy expertise to best help your facility staff and administrators. We have also been providing prescriptions to correctional facilities in Texas since 1998. As we stated earlier in our bid, your pharmacist Account Executive is Texas-licensed. Diamond's experienced personnel will provide accurate and timely responses to any question, concern, or request. Our staff members are dedicated to their specific job descriptions so you have experts available to you when you call for support, which adds tremendous overall value in terms of our ability to rapidly respond to your needs. Our department-specific supervisory personnel ensure the highest level of quality and accountability.

Diamond's In-House Departments		
Purchasing	Clinical Services	Medication Administration Records (MAR)
Electronic Ordering	Operational Services	Medication Carts
Billing	Quality Assurance (QA)	Intravenous (IV) Medications
Third Party Billing	Legal	Information Technology (IT)
Reporting	Regulatory Compliance	Systems Support
Customer Support	Drug Information	Help Desk

Our customer service department is part of our corporate infrastructure and will never be outsourced or subcontracted to a third party vendor.

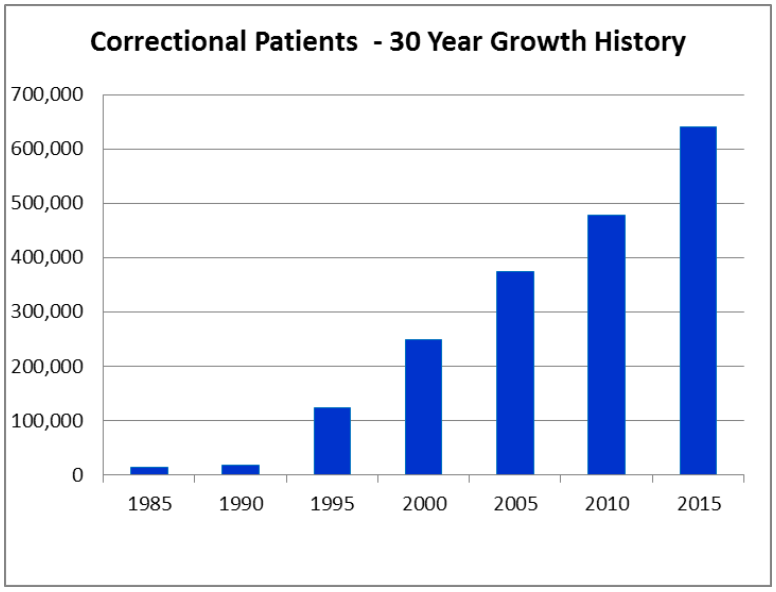
Company History and Profile

When husband-and-wife pharmacist team Gilbert and Joan Zilner acquired Diamond Drugs in 1970, little did they realize that becoming the nation's largest correctional pharmacy services provider would become part of Diamond's rich and storied 100-year history.

Company Profile	
Institutional Experience:	47 years
Correctional Experience:	35 years
Facilities Served:	1,500
Correctional Patients:	640,000
Geographic Coverage:	45 states
# Prescriptions filled/yr:	16 million
Total Employees:	> 1,000
Pharmacists on Staff:	>90
PharmDs on Staff:	>30

Today with Gib and Joan's pharmacist son Mark at the helm, our privately held, second-generation family-owned corporation provides correctional institutions, long-term care facilities, and two retail pharmacies with patient-specific medications, accurate and secure patient records, stock pharmaceuticals, custom compounding, respiratory services, and IV infusion and medical supplies.

Diamond's focus is on the correctional pharmacy industry. Our remarkable growth is a direct result of competitive pricing, reliable delivery, and exceptional customer service as well as loyal and experienced employees in vital operational areas of the business. We have never changed our name, pursued financing from venture capitalists or outside investors, or purchased any business from a competitor. All growth has been internal and organic, and our enviable record of consistent annual growth sets us apart from the industry.



Through hard work and an honest approach to business, centered on customer care, we have greatly expanded our customer base. From 2014 to 2015, we increased the number of lives cared for by 35% to reach nearly 640,000 lives in correctional facilities across the country.

As our client list has grown and industry demands have changed, our extensive knowledge of the correctional pharmacy industry has dictated that we grow and meet these demands accordingly. During the past 11 years, Diamond has expanded by establishing two critical wholly owned subsidiaries—RemedyRepack and SapphireHealth. These subsidiaries enable Diamond to meet the full range of pharmaceutical services necessary for comprehensive institutional pharmacy care.

RemedyRepack is a vital component that allows Diamond to legally repackage stock medications into cost-effective 30-count blister cards. Using RemedyRepack eliminates our dependency on outside agencies to fulfill our repackaging requirements. If you receive first-dose prescriptions and starter stock in blister cards, which is common in our industry, those cards need to be provided by an FDA-Registered Repackager to remain in FDA regulatory compliance.

SapphireHealth is our technology division, supporting our Sapphire computerized physician order entry (CPOE), electronic medication administration record (eMAR), and electronic health record (EHR) software. Details of our Sapphire system are provided later in our proposal.

Operational and Clinical Support

✓ Operational and clinical support is one of the many ways that Diamond exceeds the needs and expectations of our clientele.

On-Site Legal Department

To help ensure regulatory compliance, Diamond has on-site legal counsel who monitors the rules, regulations, and laws that govern the correctional pharmacy industry and the customers we service. Our commitment and obligation to our customers is to ensure we can provide proper guidance on clinical and operational programs and concerns. As the industry-leader, we must keep our customers and ourselves current on changes in the industry as in federal, state, and local legislation and regulations. Diamond is connected to these changes and the impact they have on the industry. In addition to in-house counsel, we also have access to and retain the services of legal experts in several other pharmacy and regulatory disciplines for consultation as needed.

On-Site Quality Assurance Department

Quality assurance (QA) and error prevention are the highest priorities at Diamond. We have a dedicated staff who only reports directly to company ownership. The department is headed by our chief financial officer, and the primary role of the department is to audit our internal processes to ensure we are following our own policies and procedures. The department has expanded its role to actively participate in the daily operation by auditing every aspect of the prescription processing, filling, and shipping areas of our distribution center. Additionally, members of the QA team investigate any reported prescription incidents to establish a root cause analysis, and they apply changes to our operation to prevent recurrences of incidents.

On-Site HIV Pharmacists

Specialized HIV consultation is provided to our customers by our two pharmacists who are specially trained to provide HIV services. Both are certified by the American Academy of HIV Medicine (AAHIVM) as HIV Experts™ (AAHIVE). Diamond has invested resources to have two AAHIVE pharmacists on staff, which is imperative in the correctional environment and a benefit not available from some other pharmacy services providers.

Diamond's AAHIVE pharmacists are involved on a daily basis in providing education and training regarding human immunodeficiency virus (HIV), Hepatitis B virus (HBV), and Hepatitis C virus (HCV) to our staff pharmacists and the providers and nurses at the facilities we service. These experts are available to answer questions related to the treatment of HIV, HBV, and HCV infected patients and HIV/HBV/HCV co-infected patients. They also can answer questions relating to drug-drug and drug-disease state interactions. With the substantial volume of HIV medications ordered by most correctional facilities, our AAHIVE pharmacists are a valuable resource to your providers and staff for expert HIV guidance, recommendations, and disease management protocols designed specifically for your HIV inmate population. Please do not underestimate their ability to **substantially decrease costs and improve patient care** through their accreditation.

On-Site Compounding Department

Diamond has several certified IV sterile and non-sterile compounding specialists on-staff that are fully trained and are certified to provide compounded pharmaceutical agents. Our specialists have completed a course of study that certified their abilities and knowledge of regulations surrounding the preparation, storage, dispensing, and licensing requirements needed to provide comprehensive compounding services to our customers. Their certification shows that Diamond fully embraces employees and provides them with opportunities to exceed the highest standards in the pharmacy industry.

Clinical Pharmacist Specialists

Diamond employs several pharmacists who hold additional training and certifications. We employ a Certified Diabetes Educator (CDE), an Adverse Drug Reaction (ADR) Coordinator, a Compounding Specialist, two AAHIVE HIV Experts, and an Anticoagulation Specialist.

Nursing and other Medical Specialists

Diamond employs numerous registered nurses (RNs) and licensed practical nurses (LPNs). Several of our nurses hold additional training and certification. We have on-staff Certified IV Nurses and a Certified Registered Nurse Practitioner (CRNP). We also employ registered respiratory therapists.

On-Site Corporate IT Staff and Support

Our commitment to our customers is seen through the resources committed to have a fully staffed information technology (IT) and programming department, available 24 hours a day, to provide not only in-house support for our systems, but also availability to our customers who need technological support for systems we deploy on-site. This group of professionals is a company within a company and shows our dedication to our customers to have a secure, reliable, and efficient IT infrastructure as well as a programming arm to meet your requests and needs. This group is responsible for items such as hardware management, software design, data management, network support, data recovery, interfacing with customers, network design, phone and fax systems, as well as managing our entire system infrastructure.

✓ Onsite programmers and IT support is just one of the many ways Diamond exceeds the technological needs of our customers.

In-house programmers allow Diamond to quickly accommodate any of your programming or interfacing requests without the need to outsource with third party vendors, as opposed to outsourcing programming needs to a third-party vendor, which could cause delays.

Compliance

✓ Proper licensure is one of the ways Diamond keeps your facility in regulatory compliance.

Diamond meets or exceeds all applicable federal, state, and State Boards of Pharmacy laws, rules, regulations, and quality standards. Diamond follows the guidelines established by the following:

- U.S. Drug Enforcement Administration (DEA)
- U.S. Food and Drug Administration (FDA)
- Drug Supply Chain Security Act (DSCSA)
- Health Insurance Portability and Accountability Act (HIPAA)
- Texas Board of Pharmacy
- Texas Department of Health Services
- Texas Jail Association
- Sheriff's Association of Texas
- Texas Administrative Code Title 25, Part 1, Chapter 229
- Texas Department of State Health Services laws
- American Correctional Association (ACA)
- National Commission on Correctional Health Care (NCCHC)
- The Joint Commission (formerly JCAHO)
- Verified-Accredited Wholesale Distributor (VAWD)

Ultimately, because Diamond holds itself to a higher standard, Diamond customers receive superior service and our patients receive industry-leading top-quality care.

State Boards of Pharmacy

Diamond is licensed in good standing with the appropriate State Boards of Pharmacy. We are licensed in good standing in accordance with the standards of the Commonwealth of Pennsylvania. We are also licensed in Texas as a non-resident pharmacy.

U.S. Drug Enforcement Administration (DEA)—Controlled Substances

Diamond is registered with the U.S. Drug Enforcement Administration (DEA) to dispense controlled substances in Schedules II–V.

U.S. Food and Drug Administration (FDA) and State Licensure—Wholesale Distribution

As required in your responses to questions in Addendum 1, Diamond is licensed as a wholesaler to distribute prescription stock medication in Texas as well as the Commonwealth of Pennsylvania. This status is important, as all correctional facilities have some degree of emergency or prescription starter stock on hand for first-dose requirements. Therefore, you need to partner with the properly licensed vendor to help avoid potential fines and disciplinary action by federal and state agencies.

Although bidders' compliance with federal and state regulations regarding stock distribution is anticipated and should be expected, the burden for ensuring compliance prior to the contract award often falls on the evaluation committee. Compliance cannot be fully assured unless the vendor provides written documentation (such as a copy of the wholesaler license) to your team **at the time of bid submittal, as required.**

Federal law and many state laws restrict pharmacies from dispensing more than 5% of their overall gross dollar sales as stock—**the 5% applies to all sales to all their customers, not just to your facility**.[1] Diamond, the leading provider of correctional pharmacy services, knows that we dispense more than 5% of our gross sales as stock. For this reason, we comply with rules and regulations established by the U.S. Food and Drug Administration (FDA). **Reasonable to assume is that, if a company the size of Diamond distributes more than 5% of our gross sales as stock to our correctional customers, other correctional pharmacy services providers also distribute at least 5% of their gross sales as stock.** Therefore, bidders must be a licensed wholesaler in Texas or subcontract the services of a wholesaler, in Texas to distribute wholesale quantities (more than a "minimal amount") of stock medications into Texas to comply with federal regulations.

Diamond prides itself on keeping our facilities in regulatory compliance. **We strongly urge the Williamson County Jail to check with your in-house legal counsel or state board of pharmacy director regarding stock distribution regulations to your facility prior to awarding a contract.**

[1] U.S. Code of Federal Regulations (CFR), 21 CFR 203 and 21 CFR 205, as published in *The Federal Register*, Vol. 64, No. 232, III.H.4.

U.S. Food and Drug Administration (FDA)—FDA-Registered Repackager

Although bidders' compliance with federal and state regulations regarding medication repackaging is anticipated and should be expected, the burden for ensuring compliance prior to the contract award once again falls heavily on your evaluation committee. Compliance cannot be fully assured unless bidders provide written documentation (copy of the repackager's FDA Drug Establishment Registration Facility Establishment Identifier) to your team at the time of proposal submittal.

A **wholesaler** can legally sell products **only** in the original manufacturers' containers.

A **pharmacy cannot** simply put medication in a blister card and designate it as stock.

Important to note is that a wholesaler can legally[2] sell products only in the original manufacturers' containers and that a pharmacy cannot simply put medication in a blister card and designate it as stock. For a wholesaler to legally sell repackaged stock in blister cards or other packaging—which is a standard in the correctional pharmacy industry—the wholesaler must use a secondary vendor (an FDA-Registered Repackager) to produce a new package with a new labeler code. Otherwise, the wholesaler can only sell stock in the original manufacturers' bulk bottles. The only exemption[3] is selling product to a physician to meet a temporary shortage; otherwise, the business must register as a producer of drugs in commercial distribution.

Risks of Not Using a Repackager

Please consider the quantity of stock cards in your medication cart and room. A vendor cannot simply take medications from a bulk manufacturer's bottle and sell them to you in a blister card as stock. The vendor must acquire repackaged cards from a licensed repackager.

Diamond has established a wholly owned subsidiary, RemedyRepack, which is an FDA-Registered Repackager. **Our use of RemedyRepack permits us to legally dispense stock medications in blister packs and other packaging in addition to bulk bottles so that you can effectively manage the cost of stock medications housed at your facility**. We have invested significant resources to fully comply with all U.S. Food and Drug Administration (FDA) regulations in the repackaging of stock from bulk bottles into manageable 30-count blister cards and to label stock cards as true unit-dose packaging.

[2] 21 USC 352

[3] 21 CFR 207.10(a)

Diamond **absorbs the cost** of repackaging so no additional cost will be passed on to you.

We keep you compliant at our expense as one of the many value-added services we provide our customers in terms of regulatory compliance.

Blister cards save your facility a significant amount of money and dispensing time compared with purchasing stock medications in bulk bottles and manually separating doses. **Prior to awarding a contract, please confirm that the vendor complies with your bid requirements, as the Williamson County Jail will ultimately face the financial and disciplinary consequences of working with a pharmacy vendor that cannot meet the legal requirements of medication repackaging.**

Drug Supply Chain Security Act (DSCSA) / Title II of the Drug Quality and Security Act of 2013 (DQSA)

The Drug Quality and Security Act of 2013 (DQSA) was signed into law with the intent of building an electronic system to identify and trace prescription drugs as they are distributed as stock in the United States. **With the tremendous amount of counterfeit medications infiltrating the supply chain, the goal of the system is to track a drug at each point in the supply chain so the drug can be verified as being procured from a legitimate source**. The system also will enhance the ability to recall medications when necessary.

Diamond operates a dedicated wholesale distributor, placing us at the forefront of compliance with these regulations. We maintain compliance for our customers, at our expense, so any stock product they purchase complies with federal and state laws.

Transaction Documentation

Under the Drug Supply Chain Security Act (DSCSA) [Title II of the Drug Quality and Security Act of 2013 (DQSA)], any stock sale must be accompanied by transaction information (TI), transaction history (TH), and a transaction statement (TS) in paper or electronic format. The transaction history must include transaction information for each transaction originating with the manufacturer of the product to the current vendor. These regulations apply to stock sold by a licensed wholesaler or a licensed pharmacy. The transaction history only supports the ability to sell the product in the unopened manufacturer's container.

Diamond's wholesaler/repackager relationship is important because it allows us to provide stock medication in blister cards with a transaction history document; a typical pharmacy cannot. Thus, under the 5% rule, a pharmacy can sell stock medication only in high cost full-size bottles if the medication is not already commercially available in unit-dose packaging or in a blister card.

DEA & Controlled-Substance Stock Medication

Diamond helps ensure that your facility remains in compliance with the U.S. Drug Enforcement Administration (DEA) and avoids unwanted attention in terms of controlled-substance stock medication.

Consistent with the know-your-customer principle, Diamond established an in-house process that allows us to monitor the amount of controlled-substance medications distributed to your facility as stock in a given month. This information is then compared against a moving 90-day average to identify any outliers, which in some cases may be an indicator of potential diversion.

The process works as follows: on the first day of each calendar month, our distribution manager receives a companywide report of all controlled-substance medications distributed as stock to all facilities. The report indicates an increase in quantity of more than 25% over the historic distribution of controlled substances to your facility over the past 90 days. Our distribution manager then sends that report to each pharmacist account manager, who in turn contacts the facility to obtain an explanation regarding the change. Reasons for the change could be a duplicate order, new patients that require additional quantities, a new prescriber that prefers a particular medication, etc. This information is then sent to our distribution manager for documentation and retention in the event the DEA audits our facility records and questions any increase in stock distribution.

Diamond Distribution checks three parameters each month as reportable metrics. We monitor the quantity change based on historic utilization, changes based per drug, and changes based on the individual prescriber. A sample of each of these reports is presented below:

Quantity Change Based on Historic Utilization									
Date	Diamond Pharmacist	Facility Name	Medication	Last Month		Average		%Change Qty	Quantity Diff
				#Items	Qty	#Items	Qty		
08/01/2017	NAME	AAAA	Tramadol 50mg Tablet	2	3000	1	1975	51.9	1025
08/02/2017	NAME	BBBB	Acet/Cod 300mg/30mg Tab	35	1050	20	625	68	425
08/03/2017	NAME	CCCC	Tramadol 50mg Tablet	5	240	2	90	166.67	150
08/04/2017	NAME	DDDD	Acet/Cod 300mg/30mg Tab	8	2160	7	1575	37.14	585
08/05/2017	NAME	EEEE	Acet/Cod 300mg/30mg Tab	1	300	1	150	100.	150

Changes Based per Drug									
Date	Diamond Pharmacist	Facility Name	Medication	Last Month		Average		%Change Qty	Quantity Diff
				#Items	Qty	#Items	Qty		
08/01/2017	NAME	AAAA	Acet/Cod 300mg/30mg Tab	3	780	1	340	129.41	440
08/02/2017	NAME	BBBB	clonazePAM 0.5mg Tablet	3	450	1	75	500	375
08/03/2017	NAME	CCCC	LORazepam 2mg Tablet	1	450	1	180	150	270
08/04/2017	NAME	DDDD	Acet/Cod 300mg/30mg Tab	2	600	1	262.5	128.57	337.5
08/05/2017	NAME	EEEE	Tramadol 50mg Tablet b	4	1020	1	255	300	765

Changes Based on the Individual Prescriber								
Date	Diamond Pharmacist	Facility Name	Prescriber DEA#	Medication	Last Month Qty	Ave Qty	%Change Qty	Qty Diff
08/01/2017	NAME	AAAA	AB1111111	Acet/Cod 300mg/30mg Tab	900	300	200	600
08/01/2017	NAME	BBBB	AC2222222	LORazepam 2mg Tablet	600	300	100	300
08/01/2017	NAME	CCCC	BB3333333	clonazePAM 0.5mg Tablet	510	60	750	450
08/01/2017	NAME	DDDD	BM4444444	PHENobarbital 32.4mg Tab	60	30	100	30
08/01/2017	NAME	EEEE	AK5555555	LORazepam 0.5mg Tablet	90	30	200	60
08/01/2017	NAME	FFFF	AR6666666	Tramadol Hcl 50mg Tab UD	200	60	233.33	40
08/01/2017	NAME	GGGG	CG7777777	Lorazepam 2mg/ml Inj	25	10	150	15

As your true partner, Diamond works above and beyond minimum requirements by once again innovating a process that helps ensure your facility remains in compliance will all applicable regulations while also providing a monthly process for diversion avoidance. This exact process has assisted facility administrators in identifying cases of controlled-substance medication diversion that were occurring within their facility through Diamond's questioning of ordering outliers for controlled substances, which otherwise would not have been detected.

To our knowledge, this level of reporting regarding wholesale stock distribution of controlled-substance medications is **exclusive to Diamond.** This speaks to our philosophy of **not only doing things right, but also doing the right things for our customers**.

Implementation Strategy

Transition Plan

✓ Diamond's 30-plus years of experience in the correctional pharmacy industry ensures a smooth, anxiety-free, seamless transition and is one of the many ways Diamond provides value to our new customers

With over three decades of experience in the correctional pharmacy industry, we know any transition to a new pharmacy vendor from the incumbent can be a time of unwarranted apprehension and anxiety. **Diamond makes that transition smooth and seamless to eliminate any worries that your administration or staff may have regarding the transition process**. We realize that many times a comfort zone develops from working with a pharmacy vendor over time; and although their service may be adequate, this comfort can overshadow opportunities that exist with changing vendors and starting anew.

Our methodical and detailed transition plan, coupled with our experience transitioning more than 1,500 correctional facilities of all sizes over the years will result in a smooth transition should we be given the privilege of an awarded contract. To ensure a smooth transition of services and subsequent customer support that exceeds industry standards, a company must be willing to commit fully credentialed and experienced professionals to manage your account daily, as Diamond is willing to do.

Diamond is confident in our ability to enhance and improve what your current pharmacy vendor has achieved to date in areas such as formulary management, clinical services, operational management, regulatory compliance, and medication management services. Diamond provides technological superiority in the areas of electronic order reconciliation (medication check-in) and return processing, online web-based reporting, workflow reporting and management, medication distribution, and routine/ad hoc reporting. We also provide the most comprehensive monthly financial reporting in the industry.

By studying your solicitation, Diamond fully understands all of your requirements, specifications, and expectations. In fact, Diamond has similar processes in place at numerous facilities regionally and nationwide. We have transitioned many facilities in a manner that exceeded their requirements.

The knowledge gained from our experience adds value for the Williamson County Jail, as our unmatched experienced allows Diamond to fully understand that proper planning is critical to satisfying our customer's needs and providing a seamless transition. To be successful, we follow the old adage to plan your work and then work your plan. A 30-day transitional period is typically recommended; however, if the transition process needs to be expedited, you can have the utmost confidence in Diamond.

Historically, Diamond has transitioned a 25,000-bed department of corrections (DOC) with a one-business-day notice without disrupting service or continuity of patient care. We smoothly transitioned the 20,000-bed Oklahoma DOC that left Diamond for another vendor back to Diamond in just over two weeks. We also have transitioned numerous county jails that range in size from 200 to 2,000 within a week or less when their long-time pharmacy vendor departed abruptly after being served a notice of termination of service.

Diamond does not acquire business and then hire. Experienced order entry technicians and a pharmacist account manager with correctional pharmacy experience are ready to begin serving the Williamson County Jail, should we be granted an award pursuant to this solicitation. As a second-generation family-owned business, Diamond continuously interviews potential candidates and always operates our corporate and satellite locations at an increased staffing level so we can bring on new business smoothly without sacrificing our expected standard for the highest levels of service and responsiveness to our current clientele. We do this so our new correctional partners have experienced technicians and pharmacist account managers ready to manage your account starting the very first day to ease the transition and to provide a level of comfort to your staff. As the industry leader, we routinely set the standard for excellent service and put our money where our resources should be—in the development of pharmacists and technicians ready and able to service new accounts on day one.

Continuity of Patient Care

As the Williamson County Jail is already accustomed to an off-site pharmacy management program, your staff will not be affected by a transition of service to Diamond, as many of the procedural aspects of your current operation will be the same regardless of pharmacy vendor. Orders will be transmitted to Diamond, as they are now, by the established order cutoff time. Diamond will process your orders that are received prior to your cutoff time or late orders that are phoned in, and they will be delivered six days a week, Monday through Saturday, as they are now. Emergency orders will continue to be filled from facility first-dose starter stock or through local backup pharmacies, as they are now. As you can see, the Williamson County Jail will experience very little, if any, disruption to your current operational processes.

Diamond will provide additional operational efficiencies and process enhancements through the deployment of our electronic reconciliation program that will allow for electronic order check-in, electronic inventory management, electronic return processing, electronic medication destruction and documentation—including controlled-substance medications—and electronic submission of refills. All will significantly improve operational efficiency at your facility while decreasing your staffs' reliance on manual and time-consuming paper processes.

Our transition plan affords accountability through a concise, methodical, and systematic approach that features three vital components for success—establishing goals, identifying appropriate staff to meet those goals, and describing the details surrounding each of the critical events that must happen to complete these goals. A successful transition depends on the Williamson County Jail and Diamond collaborating and communicating to understand how and when each phase will be carried out.

Our transition team has already been developed and will be led by your lead project pharmacist who has many years of continuous correctional experience with Diamond. In addition, a dedicated order entry technician and veteran partner will be assigned as your daily contact with Diamond, allowing us to give you the best in continuous customer service.

Transition Goals

To facilitate a smooth transition from your current provider to Diamond, we established the following five goals for guiding this process:

- Diamond will ensure a seamless transition in medication delivery services.
- Diamond will ensure prompt delivery of all manuals, forms, and start-up materials
- Diamond will train your pharmacy staff in the use and implementation of all aspects of the medication receiving, distribution, and tracking systems.
- Diamond will maintain a 24-hour helpline for troubleshooting issues that arise and will actively follow-up with staff.
- If your facility decides to deploy Sapphire, we will assist your staff in verifying technical requirements, coordinating data population, and training facility staff in the use of the system.

Transition Team

The establishment of a transition team and the development of an implementation schedule are critical to successfully meeting our transition goals.

Members of the transition team include**:**

- Mark Zilner, RPh—Chief Operating Officer and Owner
- Matt Catanzaro, RPh—Director of Correctional Operations
- Joel Akmal—Director of Information Technology
- Tammy Conroy, RPh, CCHP—Lead Project Pharmacist (licensed in Texas)
- Courtney Adams—Startup Coordinator
- Sharon Getty—Startup Specialist
- Christine Long—Director of Customer Care
- Jayme Shildt—Sapphire General Manager
- Vanessa Henry—Order Entry Technician Supervisor
- Sharon Bash—MAR Technician Supervisor
- Michelle Shawley—Billing Supervisor
- Tracey Stancombe—Reporting Supervisor
- Chuck Allison—Medication Cart Supervisor
- Anna Harrelson—Pharmacy Floor Operations
- Stacey Watkins—Pharmacy Floor Operations
- Dan Mock—Shipping Supervisor
- Theresa Coleman—Medical Supply Supervisor
- Over 1,000 additional corporate support personnel at your disposal

These members ensure that you and your staff receive thorough training regarding our ordering procedures, storage of pharmaceuticals, accounting procedures, pharmaceutical distribution, management and inventory, pharmaceutical troubleshooting, and online services in accordance with the agreed upon policy and procedures manual.

Upon contract award, we immediately begin to acquire the information necessary to assure a smooth transition of service. Our startup coordinator will send your facility administrator a facility information packet that you will complete and return to Diamond. This information is critical for establishing an initial database for your facility. Once you return the packet to Diamond, your pharmacist account executive will review the material and contact your facility administrator to obtain any missing information and arrange your on-site transition meeting and orientation.

Diamond Implementation Schedule

Our basic 30-day transition schedule will be customized to accommodate your facility-specific transition plan and goals quickly and easily.

Goal 1 Seamless transition in medication delivery services		
Task	**Responsible Person**	**Days Post Award**
Assign pharmacy team, including lead Clinical pharmacist, backup pharmacist, pharmacy technicians	Chief Operating Officer & Lead Project Pharmacist	Pre Award
Submit start-up schedule for approval by your facility	Lead Project Pharmacist	1
Send start-up information questionnaire to your facility	Start-Up Coordinator	3
Jointly determine formulary and how it will be enforced	Director of Pharmacy Operations, Formulary Development & Facility Medical Director	5
Select and contract backup pharmacies	Facility Pharmacy Manager & Lead Project Pharmacist	10
Facility orders stock medications and supplies	Facility Medical Director & Staff Pharmacists	20
Determine any special medication dispensing and labeling requirements	Pharmacy Technician	20
Coordinate with site to set date to transmit current MARs along with all cross faxes	Director of Pharmacy Operations	20-25
Ensure all provider licenses and site licenses are on file, as well as site specific lists of providers	Account Specialist	20-25
Determine which reporting systems will be used	Facility Medical Director & Lead Project Pharmacist	20-25
Photocopies of current MARs sent to Diamond	Facility	23
Facility faxes to current pharmacy and Diamond	Facility Pharmacy Staff	25-30
Diamond enters all active prescription data for complete patient profiles	Pharmacy Technician	25-30
Ship all medications, emergency kits and stock needed for first day of services	Facility Pharmacy Staff & Diamond Distribution	28

Goal 2 Prompt delivery of all manuals, forms, and startup equipment		
Task	**Responsible Person**	**Days Post Award**
Provide current policy and procedure manual for review	Facility Medical Director, Medical staff Director of Pharmacy Operations, & Lead Project Pharmacist	5
Ship startup kits to facility, including sample forms	Facility Pharmacy Staff & Startup Specialist	10
Modify P&P with facility's recommendations	Startup Specialists	15
Ship fax machines, med carts, computer equipment	Facility Pharmacy Staff & Diamond IT & Shipping Departments	20
Goal 3 **Training of facility staff in the use and implementation of all aspects of the medication receiving, distribution and tracking systems**		
Task	**Responsible Person**	**Days Post Award**
Thoroughly train all facility staff on all aspects of the start-up procedures.	Lead Project Pharmacist	15
Review the Diamond "Who to Call List"	Lead Project Pharmacist	15
Ensure each site is familiar with their primary technician and pharmacist	Lead Project Pharmacist	15
Goal 4 **Maintenance of a helpline for troubleshooting issues that arise**		
Task	**Responsible Person**	**Days Post Award**
Follow-up calls to ensure ongoing communication, quality of service, and Q&A	Director of Customer Service	30, 45, 60
Goal 5 **Assist staff in verifying technical requirements, coordinate data population, and train facility staff in the use of the Sapphire system**		
Task	**Responsible Person**	**Days Post Award**
Sapphire Guidelines accepted and returned to Diamond	General Manager SapphireHealth and Facility Administrator	10
Conference call to discuss site hardware, connectivity, and software requirements	Sapphire IT and Facility IT	11
Send Sapphire start-up packet to facility	Sapphire Transition Specialist	12
Web training for facility users	Facility Staff	15
Review any requirements for interfacing or software development changes necessary to accommodate contract	Sapphire IT staff	20-30
Onsite Training	Sapphire Trainers	27-30
System Implementation	Sapphire Transition Specialist & Facility Staff	30

This startup schedule covers the initial in-service of your staff by a registered pharmacist before the change of service as well as a period for all transitional activities and resolution of identified concerns.

Once the transition is complete to the satisfaction of the Williamson County Jail, your pharmacist account executive will continue to provide your team with written/email progress reports every two weeks for 30 days, then monthly for 30 days, then routinely as agreed upon by the Williamson County Jail. Reportable metrics and progress milestones will be determined and established during the transition phase by your account executive and your team leader.

As you can see, our transition plan is not complicated or cumbersome, but methodically planned to prevent any disruption to your normal operations and primary responsibility of patient care. Diamond's experience over the past three decades gives us the confidence that your facility also will enjoy a smooth transition to our services.

Orientation

When Diamond begins servicing a new customer, we implement a competency-based training schedule and orientation program for our pharmacists as well as any other Diamond personnel that will be involved with your contract management. Through our *New Facility Information Forms*, our startup coordinator and your assigned pharmacist account executive will obtain as much information as possible about your facility such as backup pharmacy information, physician license numbers, facility licenses, dispensing preferences, medication cart needs, technology assessment, and physician prescription stock responsibility forms.

Once our staff reviews your goals, policies and procedures, and expectations, we establish an initial facility meeting that typically involves the administrative personnel at the facility as well as any other personnel involved with pharmacy and medication management such as the director of nursing (DON), registered nurses (RNs), and any licensed practical nurses (LPNs).

Diamond's startup manual / policy and procedures manual contain detailed explanations of all procedures for medication dispensing and pharmacy program management. Electronic or web-based technologies or programs are supported by program-specific user manuals that are reviewed live during the initial training. During these orientation meetings, we will review all of the policies and procedures that are detailed in the startup manual regarding medication management.

Highlights of our orientation and training procedures include:

- Submitting new and refill prescriptions (manual and electronic)
- Ordering emergency prescriptions through a dedicated backup system
- Ordering controlled-substance medications and all the required components of the prescription order
- Requesting a non-formulary medication and a thorough review of the medication formulary
- Reporting errors and adverse drug reactions
- Accessing and mastering the daily electronic order reconciliation program
- Accessing and mastering our online reporting program

We also detail the following information:

- Pharmacy label and all the information contained on the label
- Procedures for returning medications and the electronic systems used to assist your staff
- Daily and monthly MAR updating procedures
- Items we review during pharmacy inspections
- Your delivery manifest and handling of any shortages or owed medications

We also provide a question-and-answer session during medication management training for your staff to alleviate any concerns they may have.

During the pharmacist's first on-site visit, the pharmacist will review the facility medication rooms to obtain an overview of the current process and offer any insight that may be helpful to providing optimal medication management The pharmacist will also look for any issues that may present a problem during a pharmacy inspection. This initial visit typically takes a half day, depending on availability of personnel, questions, and facility size.

Upon completion of the facility orientation and training, all individuals will understand the medication management system as well as the policies and procedures manual of the Williamson County Jail and of Diamond. We also provide additional training on-site or by phone, videoconference, or web-based conference, as needed at the discretion of your pharmacist account executive.

Each medication area will be provided with several copies of a *Who to Call List* that will be posted in several areas of your facility. This list provides the contact information at Diamond for personnel that will be servicing your facility. You will be provided with contact information for Diamond pharmacists whom you can contact 24/7/365 for any operational or clinical concerns including medication management. This list also provides contact information for Diamond personnel in key medication management positions such as your pharmacist account executive, your order entry technician, departmental supervisors, shipping supervisors, and medication cart supervisors.

Value-Added Services

340B Program

Section 340B of the Public Service Act allows Disproportionate Share Hospitals (DSH) and other healthcare-related entities to serve underprivileged populations more cost-effectively. The purpose of the 340B Program is to permit covered entities "to stretch scarce Federal resources as far as possible, reaching more eligible patients and providing more comprehensive services."[4] Section 340B requires drug manufacturers to provide outpatient medications at lower prices to eligible healthcare organizations or "covered entities" (CE). A 340B contract can provide tremendous savings potential on the pharmaceutical cost for eligible patient populations.

Diamond has invested significant time and resources to organize an experienced dedicated team who can properly oversee and operationalize **our already established 340B program for correctional facilities.** This team includes the best 340B attorney group in the country as well as knowledgeable 340B pharmacists, system developers, and accountants. Two Diamond pharmacists who lead this team regularly attend national 340B conferences and consult with our attorneys in order to keep pace with any changes in the guidelines to assure a compliant program. Our 340B pharmacists also are responsible for identifying suitable partnerships for our customers and are actively engaged in reaching out to those covered entities to assist in building relationships with the correctional facility. Diamond has partnered with several covered entities including a state correctional facility that is overseen by a medical vendor, a large county jail, and a program that required the legal repackaging of 340B stock medications.

Diamond is in the unique position of having connections with stakeholders, which would allow eligible products to be purchased under the 340B program, resulting in substantial savings per year. These funds could be used to increase healthcare services to the entire inmate population. 340B pricing is a great benefit to program participants, and the potential for cost savings is substantial. Diamond is committed to helping facilities seek out partnerships that are mutually beneficial for all stakeholders while maintaining program integrity.

[4] H.R. Rep. No. 102-384(II), at 12 (1992)

Cost Avoidance

Diamond believes in a proactive approach to cost containment by focusing on cost avoidance. We take action to **reduce anticipated costs before they actually occur** by targeting issues that would likely have a negative effect on your financial bottom line. Diamond provides price alerts and projects how situations may affect our customers' bottom line and their formulary management going forward.

As you know, the industry has recently seen extreme volatility in the generic market and a tremendous number of resultant price increases. Some inexpensive medications that have been on the market for quite a long time have recently increased in price at a rate not historically seen. In some cases, because we were alerted in advance to price increases, we could provide information to customers before the increases occurred. At other times, however, we were blindsided and learned about a price increase only after it occurred.

Diamond's efforts have resulted in managing prescription and clinician ordering trends while providing medically necessary cost-effective patient care. We collaborate with our customers through participation in P&T meetings, policy and procedures meeting, and protocol support discussions. We have reviewed reports and graphs to find facility utilization outliers and we have researched evidence-based literature specific to areas that affect utilization and cost -effectiveness of medications to develop and adjust the formulary. Further, since price change increases and decreases are monitored on a daily basis, any urgent clinical/operational issues are discussed during individual teleconference calls. All these efforts result in Diamond's staff helping your staff avoid unnecessary price increases.

Third Party Billing

With Diamond's direct third party invoicing, the cost of the respective medications are removed from your budget so you immediately realize cost avoidance.

Diamond directly invoices medical assistance (where permitted), private health insurance, federal agencies [U.S. Immigration and Customs Enforcement (ICE), U.S. Marshals Service (USMS)], or other sources of payment whenever a patient is eligible and when information is provided to Diamond at the time of dispensing.

Diamond will work with the facility to establish a liaison that can provide third party insurance information prior to the dispensing of prescription orders. If this information is available, then Diamond will attempt to bill the claim to the third party on your behalf. Medication claims not paid within 60 days become the responsibility of the facility.

Cost Containment

One of Diamond's goals is to keep your cost per patient within budget while providing quality care. Generic medication substitution, formulary implementation/management, alternative treatment recommendations, clinical services management, Diamond's monthly statistical reports, operational efficiencies and improvements, backup pharmacy control, and our unsurpassed industry purchasing power and discounts are all important tools used to reduce your costs and improve patient outcomes.

Measures that Diamond takes to reduce your costs include:

- Low-cost generic or brand name drugs are automatically substituted for therapeutically equivalent A- or AB-rated products unless requested otherwise by the prescribers.
- Clinical pharmacists that are well versed in making cost-effective recommendations and developing correctional specific drug formularies. Diamond's pharmacists are always available to answer questions regarding cost-effective therapy, and they can be contacted through your account representative or 24/7/365 by calling 800-882-6337.
- Monthly formulary management and other statistical reports show usage trends and prescriber ordering history as a tool in identifying areas to save money and identify outliers. For sites using our proprietary Online Reporting System (ORP), this information is provided and obtained in real time 24/7/365.
- We accept drug coupons and vouchers from pharmaceutical companies for a free supply.
- We directly invoice medical assistance (where permitted), private health insurances, federal agencies [such as U.S. Immigration and Customs Enforcement (ICE) and U.S. Marshals Service] or other sources of payment when a patient is eligible and the information is provided to Diamond at the time of medication dispensing. Our ability to directly invoice third parties removes the cost of these medications from your budget so you immediately realize cost savings.
- We participate in buying groups and purchase directly from manufacturers and generic companies to provide you with the most competitive pricing. As our industry has evolved, pharmacies have increasingly participated in buying groups and purchasing organizations to lower costs. Diamond is a member of several purchasing affiliations, and we negotiate directly with manufacturers. Our purchasing manager, who has been with Diamond for over 25 years, has a complete and thorough knowledge of the correctional pharmacy industry. Our massive prescription volume and purchasing power allows him to negotiate and dictate the best prices that we then pass on to you.

- Diamond is the only pharmacy that has significantly invested in providing true unit-dose blister card packaging to ensure the highest allowable credits on returned medications eligible for reclamation. Unit-dose labeling of each individual bubble of the blister pack on medications being reclaimed affords the Williamson County Jail available credit on a wider spectrum of returned medications. We committed substantial financial and personnel resources to ensure that medications eligible for reclamation sent to the Williamson County Jail have each bubble of the blister cards individually labeled with the medication's name and strength, NDC number, manufacturer's name, lot number, and expiration date. States such as Indiana, Maryland, New York, and Pennsylvania require this type of packaging before medications can be considered for reclamation.
- We scan literature and wholesaler websites to proactively determine when a generic medication will become available. We recommend therapeutic alternatives in advance of a generic release so our customers can receive the generics upon wholesaler availability.
- We provide routine poly-pharmacy patient medication reviews that improve clinical outcomes while reducing program costs.

Financial value is provided by Diamond in areas other than just pricing, such as the following:

- Preventing fines and disciplinary action by strict adherence to regulatory agencies and accrediting agencies regarding stock distribution and stock medication repackaging services that are not available from many pharmacies within our industry
- Strong formulary management and clinical services to lower expenditures while improving care
- Consistent pharmacist account managers and veteran order entry technicians
- Operational efficiencies through electronic ordering and electronic medication pass
- A generous **and legal process** for medication returns and credits
- Accurate and meaningful reporting that identifies prescriber ordering trends and high-cost medications

Drug Information Center

Diamond's Drug Information Center is a value-added resource that provides our customers with access to clinical pharmacists and programs that make a real difference. While our clinical pharmacists and pharmacist account managers are available for routine questions and research, Drug Information Center pharmacists specialize in drug- and disease-state management, clinical information services, and formulary management and reviews.

Our vision goes beyond simply dispensing low-cost medications; we focus on cost-effective and evidence-based treatments that deliver positive patient outcomes for the overall wellbeing of your patients. Diamond's Drug Information Center takes clinical care to the next level by facilitating proper care, improving treatments, optimizing patient health, and reducing overall costs through proper patient and disease-state management. This resource minimizes costly emergency and outpatient trips for conditions that can be managed in your facility.

We routinely provide your facility and clinicians with clinical and pharmaceutical information, which helps ensure that medications are not misused, over-ordered, or prescribed inappropriately. We also help manage drug costs by providing relevant information directly to your providers so they can improve their prescribing habits, which leads to cost savings and positive patient outcomes. As your clinical resource, Diamond will support your staff regarding drug utilization, medication therapy management, and overall formulary management.

Proper medication selection, reduction of polypharmacy prescribing habits, education, therapy management, reduction of off-site care, decreasing acute sick call visits, reducing adverse medication events, and accessibility to clinical pharmacists will reduce both short-term and long-term costs while improving outcomes. With over 700 combined years of correctional pharmacist experience and over 30 clinically trained and licensed doctors of pharmacy (PharmDs) on staff, we understand the importance of clinical services in the unique correctional healthcare environment. Our main goal is to constantly work toward improving the care of your patients.

Our recommendations and clinical initiatives are based on primary literature reviews, routine journal reviews, and community standards. In addition to applying NCCHC and ACA recommendations and standards, we work with our correctional partners such as the Williamson County Jail to exceed the standards, fulfill your organization's mission statement, and optimize delivery of care.

Diamond's Director of Clinical Services and our team of Drug Information Center pharmacists have the knowledge and experience necessary to improve patient safety and compliance, and they will partner with your facility personnel in the development and implementation of medical guidelines and clinical protocols. At the end of the day, our clinical pharmacists are there for you as a resource and as partners to manage and improve drug therapies while improving the quality of life of correctional patients entrusted to your care.

As medication experts, our clinical team embraces its role in helping ensure that your patients are receiving the proper medications at the proper times while minimizing any medication-related issues that would interfere with a patient's therapy.

Drug Information Center services include, but are not limited to, the following:

- Non-formulary/clinical recommendations for providers
- Development of OTC and legend formularies
- Development of recommended nursing and provider protocols
- Coordination of clinical activities and initiatives
- Formatting of statistical reports that are specific to your needs
- Hepatitis C therapy management including prescreen consultations, on-therapy dosing, and recommendations drug-drug interaction
- Pharmaceutical and budget forecasting
- HIV disease state management including review, consultations for initial and on-therapy dosing, and recommendations in case of drug-drug interaction
- Asthma and diabetes treatment reviews and recommendations
- Reviews of high cost psychotropic injectable utilization
- Reviews of anticoagulation utilization
- Disease-state clinical pharmacist webinars
- Polypharmacy reviews and alerts
- Disease state algorithms
- High-acuity patient consultations
- Continuing education (CE) and continuing medical education (CME) credit
- High-cost patient reports and analysis
- Evidence-based medical and scientific research
- Journal reviews

Whether you need assistance during or after normal business hours, our Drug Information Center and Diamond's 24/7/365 operation has clinical pharmacists available to fulfill your consulting needs. Our clinical initiatives and programs ensure that our clients such as your facility stay at the forefront of correctional healthcare.

Specialty Medications

As an additional value-added service, our Drug Information Center pharmacists supervise the procurement of specialty medications and limited-distribution pharmaceuticals along with the management of medication refills for patients on these specialty agents, which are typically expensive.

On a daily basis, Diamond takes a proactive approach to make sure a patient's therapy is properly initiated and, just as importantly, not interrupted. This often requires making sure that specialty forms are filled out accurately and correctly, patients are properly enrolled, and prescribers unfamiliar with these agents are educated that procurement of such agents can possibly take time for the specialty pharmacy to get the medication to the facility. Before a refill is due, we check if the drug is to be continued, put on hold, or even discontinued according to the discretion of the prescriber to curb unnecessary costs. Our pharmacists review alternative treatments recommendations if applicable.

Our specialty team has all the appropriate facility-level contacts for sites housing inmates on specialty medications and they regularly follow up with these sites, the specialty pharmacy, and our Director of Clinical Services to help ensure the greatest patient-centered positive outcome.

Emergency Prescriptions

Emergency prescriptions for stat orders are provided through Diamond's on-site emergency kit/starter packs or by a pre-arranged, subcontracted local backup pharmacy of your choice in your immediate area.

Local Backup Pharmacies

Emergency medications not found in the emergency medication kit or the first-dose starter packs and unavailable from Diamond in sufficient time are provided in a minimum quantity to your facility by a local backup pharmacy in your immediate area. Due to Diamond's size and volume, we have aggressive national contracts with most chain pharmacies and are willing to negotiate with any pharmacy of your choice, as over 99.5% of all retail pharmacies in the United States are already part of our network.

As a family-owned business, we fully embrace the entrepreneurial spirit of local independent pharmacies. We make every attempt to contract with independent pharmacies when possible. The use of local, independent pharmacies helps provide economic benefits to your local community by supporting local businesses.

Diamond proposes the following backup pharmacies for your facility:	
CVS #6894 900 N Austin Ave #109 Corner of Williams Dr Georgetown TX 78626 512-863-2581 Mon-Fri 8:00 a.m. – 9:00 p.m. Sat 9:00 a.m. – 6:00 p.m. Sun 10:00 a.m. – 6:00 p.m. 1 mile from site	Gallagher's Pharmacy 3201 S Austin Ave Georgetown TX 78626 512-763-4400 Mon-Fri 8:30 a.m.—5:30 p.m. Sat & Sun Closed 1 mile from site

If you prefer to use a particular backup pharmacy, such as your current backup pharmacy, for emergency services, we can certainly negotiate to contract with that pharmacy.

When your facility needs an emergency prescription, your staff faxes or electronically transmits your prescription using Diamond's Stat Line, which is staffed and available 24/7/365. When Diamond receives the order, we contact the backup pharmacy and arrange for the emergency prescription.

By submitting stat/emergency orders to Diamond, you can be sure to receive these prescriptions in the agreed-upon quantities at the agreed-upon, contracted rate. Diamond's ability to provide direct electronic claim transmission from the local backup pharmacy keeps your costs at a minimum and ensures that your facility does not incur a charge if your employees pick up emergency orders.

Emergency prescriptions also can be delivered directly to your facility using the local pharmacy's delivery service or a taxi or courier service that has been pre-arranged by Diamond, at your request.

If your staff phones Diamond with an emergency order, they are immediately transferred to a dedicated customer service technician or a pharmacist who can expedite your stat/emergency need. If you call after hours, Diamond's answering service patches your call through to one of our on-site pharmacists. We staff pharmacists at our pharmacy 24 hours a day.

Invoices for Backup Charges

The backup pharmacy will invoice Diamond, and Diamond will invoice your facility. The amount of the charge is a discounted rate that is negotiated with the local service provider. These charges are simply passed through at the negotiated rate, without any additional margin or markup. Charges may include but are not limited to the cost of the local pharmacy's prescription, if above Diamond's contract price, plus any delivery, on-call, taxi, or courier charges. Detailed reports of all emergency prescriptions are provided with Diamond's monthly invoice.

Management of Emergency Medications

Diamond realizes the importance of receiving emergency medications in a timely fashion and does everything within our power to expedite processing, filling, and delivery. We also realize that emergencies are costly in terms of both the patient's wellbeing and the expense of providing emergency care. Consequently, and on an ongoing basis, Diamond collaborates with your medical director to determine which medications need to be added to the emergency stock supply list to help minimize future emergency orders.

Equipment & Supplies

Fax Machine

Diamond provides your facility with a plain paper fax machine, upon request, for transmitting and receiving information between your facility and ours. Diamond programs the fax machine specifically for your facility with our toll-free number on speed-dial and with a fax confirmation sheet after every transmission. Your facility has the option of purchasing fax cartridges on your own or through Diamond.

Fax machines are provided on loan at no additional cost for the duration of the agreement when you fax all medication orders to Diamond. If your facility deploys our Sapphire system, fax machines are needed only rarely when the electronic system is offline or when a controlled substance order needs to be faxed to Diamond for dispensing.

Scanner

Diamond will provide a handheld tethered scanner on loan at no additional cost, upon request. The scanner is used to electronically reconcile your daily order, return medications, and initiate refills.

The scanner will help your staff save time and improve efficiency when you deploy and use our free web-based software. The provision of a scanner is another value-added service innovated by and provided by Diamond.

Laptops

To facilitate the deployment of Sapphire CPOE and eMAR—our innovative and proprietary web-based order entry, reconciliation, inventory management, and eMAR system—Diamond will provide your facility with two laptops on loan used for med pass at no additional cost.

Hardware replacement is covered according to the original manufacturer's warranty. Should any laptop or scanner not covered under the original manufacturer's warranty be damaged due to negligence or misuse, your facility will be responsible for its replacement.

Formulary

✓ Diamond's drug information center and formulary management process are some of the ways Diamond can help you achieve your goals regarding cost control, cost avoidance, and positive patient outcomes based on evidence-based literature and clinical research.

Formulary Development

Correctional facilities, private insurance companies, and government healthcare agencies all use formularies to manage costs and ensure safe prescription ordering practices. A formulary helps a prescriber identify more cost-effective alternatives for high-priced medications and avoid medications that could pose safety concerns. Our formulary vision incorporates both principles.

Diamond routinely conducts comprehensive reviews of our customer formularies and works with the medical director to discuss adding or deleting medications. Our goal is to develop a formulary that comprises primarily generic and cost-effective brand name medications to encourage cost containment without compromising the quality of care. **In many cases, our formulary management has saved new Diamond customers up to 20% in cost.**

The Williamson County Jail will benefit from the value provided by our clinical pharmacist and doctoral-level pharmacist (PharmD) staff and their decades of clinical experience in the area of formulary development. Your pharmacist account executive, who has written formularies for numerous departments of corrections and county jail facilities over the years, will provide regular recommendations to the medical director for consideration and implementation at their discretion. Diamond will never make a formulary change without the approval of your medical director.

While utilization is important for formulary management and development, other ideals are just as important. Your pharmacist account executive will review evidence-based literature specific to areas that affect utilization and the cost-effectiveness of medications and will provide the information to your staff.

Although an annual review of your formulary is standard with many industry providers, Diamond reviews your formulary **on a daily basis** as your pharmacist account executive is alerted of daily medication price changes. We will immediately contact your facility and medical director to assess stat formulary changes that provide cost avoidance to the Williamson County Jail.

Pricing is monitored daily to detect significant increases and decreases. Our pharmacists review daily price-change reports and receive weekly information from Diamond's wholesaler when they anticipate the FDA approval of new generic medications. This information is provided to the medical director for review when assessing a medication's formulary status.

Duration-Based Formulary

A unique feature of Diamond's formulary management is our ability to provide a duration-based formulary in addition to a list of approved medications. A duration-based medication entry is coded in our dispensing software so that the medications formulary status is of limited duration. For example, a medication can be coded as non-formulary if prescribed for up to 10 days, but coded as formulary if prescribed for more than 10 days. Diamond currently uses a duration-based formulary to manage costs, and patient safety, with non-steroidal anti-inflammatories (NSAIDs), muscle relaxants, and proton pump inhibitors (PPIs).

Formulary Management

Formulary models now require the engagement of a pharmacist with formulary management at the ground level to make alternative treatment recommendations to your providers. Historically, the pharmacy's role was for informational support, trend analysis, cost avoidance, operational support, and analysis of utilization data.

Diamond was instrumental in innovating the correctional pharmacy industry with our formulary management. We have over 30 clinically trained doctoral-level (PharmD) pharmacists on staff as well as four compounding specialists, a diabetes educator, an anticoagulation specialist, two certified AAHIVE expert pharmacists (whereas many pharmacies have none), and an adverse drug reaction coordinator. Our clinical and operational pharmacists have well over 700 years of combined experience in the correctional pharmacy industry.

In correctional facilities, formulary utilization with strict compliance is shown to significantly decrease total monthly pharmacy expenditures while fostering positive patient outcomes. Our formulary experts combine decades of correctional pharmacy experience with clinical excellence that is simply unavailable from other providers in the industry. Using our formulary enforcement process and alternative treatment recommendations, **your medical director can spend more time on clinical and administrative needs while leaning on Diamond pharmacists for initial non-formulary medication reviews** based on our decades of formulary knowledge and expertise specific to the correctional pharmacy industry**.**

Urgent Formulary Changes for Cost Avoidance

Unexpected increases in the price of medication can greatly affect your costs. Diamond's clinical consultant pharmacists are instrumental in minimizing the impact of any price jumps. When the price of a formulary medication increases suddenly and significantly, Diamond swiftly responds by recommending necessary changes that can control costs and ensure your staff maintains access to therapeutically appropriate products.

In the past, Diamond has acted quickly to recommend appropriate formulary changes (see table) to ensure formulary compliance and help facility staff practice cost avoidance. Diamond's account executive pharmacists are notified daily of any price changes. Based on this information and your specific utilization data, they generate reports that are emailed to your facility staff and medical director. The reports convey the impact of the price change so we can discuss your options.

Examples of Medications Prompting Formulary Changes	
Amitriptyline	Haloperidol decanoate
Carbamazepine	Mirtazapine
Chlorpromazine	Nasal steroids
Clobetasol	Nystatin cream
Gabapentin	Permethrin cream

Alternative Treatment Recommendations (ATRs)

Alternative treatment recommendations (ATRs) are provided by Diamond's clinical pharmacists for non-formulary medication orders that best meet your clinical and cost-avoidance goals. **Diamond listens to your needs and provides the services you want.** Should the Williamson County Jail wish to have routine ATRs provided by a Diamond clinical pharmacist, this is a higher-level clinical review and professional service. If requested, Diamond will provide unlimited monthly routine ATRs for the Williamson County Jail at a negotiable rate per month.

We provide ATRs for non-formulary medication orders Monday through Friday from 9:00 a.m. to 5:00 p.m. EST/EDT (on non-holidays) where a clinical pharmacist review module is contained within the current electronic health record (EHR) system used at the facility. A Diamond clinical pharmacist will review these orders for clinical appropriateness, patient safety, correctional abuse potential, and cost-effective prescribing based on evidence-based medicine and current clinical disease state consensus guidelines.

Through our pharmacist ATR continuum, educating facility-level providers regarding clinical pharmacy is one of the pillars of our design in terms of our impact on appropriate cost-effective prescribing habits. Our team welcomes routine communication by the client outside of the EHR to assist in designing a clinical ATR program that works for all parties. For example, our clinical pharmacists may apply standard client-driven non-formulary disease-state protocols/ideals when they recommend a cost-effective alternative treatment.

Depending on your health record's design, the first-line pharmacist ATR will be accessible to the provider and the medical director for their review. Our clinical pharmacists will not deny any therapy. If the prescriber does not accept the pharmacist's ATR, the prescriber always can discuss the case with the medical director. If the pharmacist reviewing the non-formulary request deems that no ATR is available and that the cost of the order is greater than the client's agreed-upon amount, the pharmacist will communicate this information to the prescriber and higher authority for a final decision on the dispensing. Depending specifically on the EHR's design, at any point in the ATR process, a designated higher authority may intervene to immediately approve or deny a prescriber's request.

If your facility does not have an EHR that can communicate medication ATRs completely electronically within the EHR, that is not a problem as Diamond can offer the following solutions:

- Deploy our Sapphire CPOE/eMAR software to accommodate ATR medication management at no additional cost for software access
- Deploy Sapphire EHR software to accommodate ATR medication management along with comprehensive healthcare record management and electronic ordering at a price to be negotiated
- Utilize an offline reporting program developed by Diamond that twice daily generates a report of all non-formulary medication orders the facility submits to Diamond that request a pharmacist first-line non-formulary medication ATR
  - ✓ The report will be reviewed by Diamond's Drug Information Center pharmacists for clinical appropriateness, patient safety, correctional abuse potential, and cost-effective prescribing based on evidence-based medicine and current clinical disease-state consensus guidelines.
  - ✓ ATR recommendations will then be provided by email to a facility-specific distribution group created by Diamond that includes facility-level personnel, facility-level prescribers, and the medical director or designee assigned to the non-formulary medication-approval process.

If these solutions are not appropriate, Diamond will collaborate with the Williamson County Jail to develop an acceptable process or program to best fulfill the pharmacist ATR initiative.

Non-formulary requests submitted after 5:00 p.m. EST/EDT on Friday will be reviewed by Diamond as a priority request on Monday morning. If the situation cannot wait until a review is conducted on Monday, the request may be faxed or transmitted to the Diamond emergency prescription request line for an immediate fill from a local backup provider or can be submitted to Diamond as a bridge request in accordance with your facility's policy and procedures.

Diamond will track recommendations made to your facility over time to provide statistical reports on the program's impact on non-formulary usage and cost, if requested. **Diamond's Drug Information Center clinical pharmacists conduct over 5,000 ATRs per month, which saves Diamond customers over $2.5 million annually or approximately $42.00 per recommendation per prescription.**

Formulary Reports

✓ Web-file access to reporting is one of the many ways Diamond has innovated correctional pharmacy as the industry first-mover regarding reporting capabilities.

Formulary management reports (FMRs) are provided monthly. They are a modular combination of Excel spreadsheets and charts that illustrate monthly expenditures, usage, prescribing habits, and trends. The FMR system contains nearly 400 custom reports and charts and over 400 yearly trend figures. Diamond customizes your facility's FMR to your specific needs and the specific parameters you want to target as indicators. After the custom FMR is created, the file can be immediately posted to our web file manager account for instant retrieval by designated members of your team. Access to the web file manager is secured with usernames and passwords. Web file manager access is a value-added service provided free-of-charge by Diamond.

Diamond also provides a formulary exception report that lists all non-formulary medications prescribed during a particular period and the data can be sorted by prescriber, medication name, and patient. The report contains the medication's name and strength, dispense date, inmate name and number, prescriber, cost per prescription, order stop date, primary therapeutic class, secondary therapeutic class, formulary status indicator, and total cost per medication dispensed. This information is always accessible in our free Online Reporting Program (ORP).

We also created specialty reporting that is auto-generated and emailed to facilities daily to alert your staff of all non-formulary items that are to expire within 10 days of the report. This report allows your staff to procure and submit a new order and a new non-formulary request in advance of the current order expiring. Your facility can use this daily report to prevent delays resulting from a current non-formulary authorization not being on file at the time of order dispensing.

Information and Education

✓ Keeping your providers and staff informed is one of the many ways Diamond provides the greatest value to our clientele.

Diamond provides medication information and educational materials to prescribers, nurses, officers, and administration on topics such as medication therapies, side effects, and proper administration of medications.

Customized In-Service Training

Diamond provides training for nurses, technicians, prescribers, and officers on a wide variety of topics. The training is tailored to ensure operational and regulatory compliance and enhance staff knowledge. The topic list is virtually unlimited. Some of the most popular topics include pharmacy service procedures, medication pass, medication utilization, medication charting, accountability, medication storage and security, new medication updates, medication management, medication side effects and interactions, proper medication disposal or destruction, and management of controlled substances.

Educational Library

Your facility can borrow any of over 300 titles from Diamond's extensive healthcare lending library. Materials can be borrowed, viewed by your facility personnel, copied, and returned to Diamond when finished, free of charge.

The educational library includes various medical topics. Some of the most popular topics include IV infusion, medication information, nursing skills, respiratory issues, universal precautions, HIV, and diabetes. They are suitable for various educational levels and contain information appropriate for inmates, security, nurses, and prescribers.

Product and Regulation Announcements

Diamond provides routine information on new medications, generic medications, backordered medications, therapies, side effects, proper administration of medications, etc. In addition, Diamond automatically sends memos to your facility when a medication's color or imprint changes or when new generics are released. Regulatory information is sent to your facility as soon as it is issued.

Monographs

Facility personnel can print patient medication information monographs directly from our free web-based Online Reporting Program (ORP) 24/7/365 in either English or Spanish. These monographs outline the medications' classification, usage, administration, and side effects. They provide the most accurate and timely information about medication classifications, usage, administration, and side effects in an easy-to-read format.

Reference Manuals

Diamond can provide your facility with medication reference materials such beyond-use reference guides and lists of the following medications:

- Controlled-substance medications
- Should-not-be-crushed medications
- Medications that cause heat sensitivity
- Medications that cause photosensitivity

We also can provide metric conversions, information on poison antidotes, and poison prevention hotline information. Books and publications can be purchased on behalf of your facility and billed as a pass-through charge.

Information Exchange

Because of Diamond's large customer base, we can provide you with contacts from other facilities to initiate the exchange information between facilities. When you have questions or want to interact with healthcare professionals from other facilities, let Diamond know and we will match your request with an appropriate person at another facility.

Issue Escalation & Resolution

We truly believe that your business is earned through trust and responsiveness, and Diamond has the proper levels of issue escalation in place to meet those demands.

If you have any facility-level concern that cannot be addressed to the satisfaction of facility management by your veteran order entry technician(s), your staff has direct access to Technician Department Supervisor Vanessa Henry. Vanessa serves as the primary supervisory contact for issue escalation. She has been employed by Diamond for 19 years, and she has served as departmental supervisor for 18 years. She is well versed in order entry, order transmission, and facility reporting.

In rare cases when facility administrators and personnel require an additional response, your pharmacist account executive, Tammy Conroy, RPh, is available. She will be the primary point person for any issues or concerns generated at the administrative level and will address all concerns and provide suggested solutions.

Issue Escalation & Resolution

Technician

↓

Technician Department Supervisor
Vanessa Henry

↓

Pharmacist Account Executive
Tammy Conroy, RPh

↓

Diamond's Owner & COO
Mark J. Zilner, RPh

In the highly unlikely event that your pharmacist account executive does not provide an amicable resolution to your concern, you always have direct access by cell phone or email to Diamond's Owner and Chief Operating Officer, Mark Zilner, RPh. Running a family-owned business, the Zilner family of pharmacists remain fully engaged with daily operations. Mark is readily available to ensure that concerns are resolved and your facility experiences the highest level of customer service and satisfaction.

Pharmacy and Therapeutics (P&T)

Tammy Conroy, RPh, will serve as an active member of your facility's Pharmacy and Therapeutics (P&T) committee and will chair the meetings upon request. Participation in these meetings is a vital component of Diamond's cost-containment and formulary management program. **We recommend a quarterly P&T meeting.**

P&T meetings allow our organizations to work collaboratively as a team, continually raising the standard of excellence through improvements to your policies and procedures. We also focus on reducing the cost of care by comprehensively analyzing clinician-prescribing trends during the past quarter. Your pharmacist account executive will assist your P&T committee in forecasting pharmaceutical utilization and medication costs so you can stay within or below budget.

You will have access not only to your experienced pharmacist account executive, but also to Diamond's exceptional Clinical Consulting Department and Drug Information Center. Our clinical team comprises several Doctors of Pharmacy, registered pharmacists with extensive correctional pharmacy experience, two AAHIVE expert pharmacists, a Certified Diabetes Educator, a Certified Registered Nurse Practitioner (CRNP), a certified Anticoagulation Specialist, and two pharmacists with expertise in 340B program management.

We will truly enjoy participating as a member of your P&T committee. These meetings provide an excellent forum to do the following:

- Review overall medication costs and utilization
- Review the costs and proper usage of non-formulary medications
- Review inspection findings
- Review compliance with regulatory standards
- Focus on traditionally high-cost therapeutic categories such as HIV, Hep C, injectable psychotropics, factor products, immunologicals, and specialty medications
- Discuss industry news that may have an effect on your facility operations and overall pharmacy program management
- Present evidence-based research and disease-state management protocols and updates

Diamond's customers appreciate the work we do to save them money, improve patient outcomes, and increase operational efficiencies, particularly during this time when financial resources are limited. During our P&T meetings, Diamond also reserves a small segment for new or emerging market trends in pharmacy. We present or discuss with the committee a sample of new pharmaceuticals by medication or therapeutic class that have or will soon be released by the FDA.

A prime example of market trend analysis is the field of specialty pharmacy, which covers newer biological agents for multiple sclerosis (MS), oncology, peripheral arterial hypertension (PAH), HIV/HCV, neurology, and rheumatology. Diamond produces a presentation for the newer agents coming to the market and covers dosing, side effects, monitoring, monthly cost, and potential budgetary impact to the Williamson County Jail over time. New pharmaceuticals could potentially increase your overall pharmacy costs tremendously if not properly managed.

Pharmacy Forecasting

As a true pharmacy partner, we realize that our customers need reliable and accurate forecasting to alleviate their budgetary concerns. Diamond developed a reporting tool that allows our customers to project future medication costs based on their clinicians' current prescribing practices. The tool compares current costs to the costs of the same medications dispensed at earlier times to determine highly accurate inflationary indices.

Your pharmacist account executive receives daily price alerts so when a price increase is expected or identified, he or she will run additional reports to estimate the financial impact on your operations and to recommend therapeutic alternatives that can be utilized.

Diamond's Drug Information Center pharmacists stay abreast of industry trends and clinical news. This allows us to alert our customers to brand name medications that will soon become available generically and to alert our customers when medications whose prices have recently increased will soon be made by single-source manufacturers.

By staying ahead of the industry curve, we help our customers forecast accurately and stay on budget despite unforeseen pricing volatility.

Recalls and Backorders

Diamond has four staff pharmacists dedicated to addressing manufacturers' recalls and medication backorders.

When Diamond is notified of a recall, the team immediately reviews Diamond's current inventory and removes the item identified in the recall. In addition, our software provides reports that list patients who received the recalled medication. Diamond's quality assurance team then notifies all relevant prescribers and other facility personnel according to pre-established protocols and procedures. When the recall is issued, Diamond notifies all customer facilities by fax and email.

Our pharmacists also check backordered items on a daily basis. If a backorder appears to be lengthy, pharmacists investigate alternative supply lines. In addition, alternative medications are presented to your prescribers for consideration. Backorder memos are automatically sent to your facility each month. This documentation serves as a guide to alert prescribers before they write new prescriptions of backorder status and available alternatives.

Additional Services & Products

In addition to medication dispensing and comprehensive pharmaceutical services and products detailed in our proposal, Diamond offers a complete line of competitively priced ancillary services including the following:

Individualized Development of Patient Care Plans

With appropriate access to the patients' full medication chart, Diamond will work to help manage high-risk and high-cost patients on a **case-by-case** basis with the development of individualized care plans, if requested. Our goal is to develop a care plan that will reduce unnecessary hospitalizations, reduce adverse medical events and drug reactions, reduce poly-pharmacy, and increase positive clinical patient outcomes. If the Williamson County Jail is seeking individualized development of patient care plans, Diamond offers this service at a negotiable price.

Tele-pharmacy

Diamond will provide targeted tele-pharmacy clinical consultations through videoconference for complex and high-acuity patients when requested, including direct adherence counseling for patients. This program would typically be used in areas where the client believes a specific provider or patient needs these specific services and with high-cost avoidance potential. These consultations are billed per request at a negotiable price

On-Site Clinical Pharmacists

Our experience over the past 35 years indicates that on-site clinical pharmacists at correctional facilities will add unnecessary budgetary costs to a well-managed pharmacy program. However, we have seen cases over the years where systems will request a regularly scheduled on-site pharmacist (or several on-site pharmacists) for clinical services.

In these cases, Diamond will work with your team to assess the true needs of the customer. As previously mentioned, this program would typically be used in areas where the client feels that a specific provider or patient needs these specific services with high-cost avoidance potential and direct live on-site visits are deemed necessary. If we determine that an on-site clinical pharmacist is required either through law, accreditation, contract requirement, or the high-cost avoidance potential, the costs for providing on-site pharmacists will be negotiated based upon the specific client needs and the number of pharmacists needed in the system. Pricing will be negotiated on a case-by-case basis if coordinated through Diamond.

Medical Equipment and Supplies

Diamond offers latex gloves, exam table paper, bandages, test strips, braces, crutches, wound care products, walkers, wheelchairs, hospital beds, urologicals, etc.

Healthcare Products

Diamond offers aspirin, acetaminophen (Tylenol), shampoo, soap, hand lotions, disinfectant cream, toothpaste, individual unit-dose packets, etc.

Respiratory Therapy Services

Diamond provides access to our staff of respiratory therapists and technicians and a complete line of products and equipment.

Correctional-Specific Electronic Health Record (EHR) / Electronic Medical Record (EMR) System

If the Williamson County Jail is interested in a complete electronic health record (EHR) / electronic medical record (EMR) system, Diamond offers a full correctional-specific EHR at a price to be negotiated.

InnovaHealth

InnovaHealth is a Diamond subsidiary that provides mail-order prescription dispensing services at a separately negotiated price.to employee group benefit programs and other clients in need of mail-order patient prescription services

Diamond Software Systems

Electronic Ordering with Sapphire

Diamond is offering the Williamson County Jail a proprietary web-based software application—Sapphire computerized provider order entry (CPOE)—that provides a professional, easy-to-use, innovative computerized medication order-entry system. Your staff and administrators will enjoy the extensive features and numerous benefits of ordering online through our user-friendly Sapphire system.

Hosted Solution

Sapphire is a completely hosted solution, which means that no on-site hardware server is required to access and use the system. Sapphire has a robust backup, recovery, and redundancy system to deal with power outages, hardware issues, offsite storage, threat protection, and network outages.

Benefits of a Hosted Solution

Reliability – Our hosted solution brings with it a load balanced architecture, redundancy across data centers, and 99.95% up time. In other words, we are responsible for ensuring that our software is always running and the application is available to our customers.

Maintenance – Ongoing maintenance, upgrades, and system monitoring require IT resources and an internal commitment to maintain new releases and patches. With a hosted software solution, you can keep your internal resources focused on important projects and leave the ongoing maintenance items to our team.

Help Desk – Reduce the incoming calls to your IT help desk and/or give them access to our support, for ideas and best practices along with support.

Cost – Traditional software implementations can cost large sums of money after adding up implementation fees, hardware, licensing, and ongoing maintenance costs. Hosted software solutions help facilities realize a lower total cost of ownership with benefits such as the followings:

- No need to hire extra IT staff
- Faster implementation time
- Little to no involvement from your IT department

Lower risks – Since the initial costs of starting a hosted project are much lower than are those of locally installed software, the financial considerations are limited, and a decision to rollback or switch to different software is easier. The investment made in a hosted system is minimal. You are not burdened with the hardware, operating systems, software, and IT personal if you decide to switch to another solution at some point in the future.

Features & Benefits of Diamond's Sapphire CPOE System

In-house development, maintenance, upgrades, and support through our on-site programmers and IT professionals

- One point-of-contact versus multiple vendors to provide solutions
- Software provided free-of-charge when your facility purchases all medications from Diamond and submits all orders to Diamond using the Sapphire system

No software contract

- Not being locked into a system allows flexibility to your administration with any change of vendors

Cooperative development, **s**tandard customizations, upgrades, and enhancements

- System that meets your needs and specifications
- No additional fees for requested enhancements and software updates
- Diamond making all necessary modifications and enhancements to software on a regularly scheduled 6-week sprint—based on suggestions and requests from our customers and

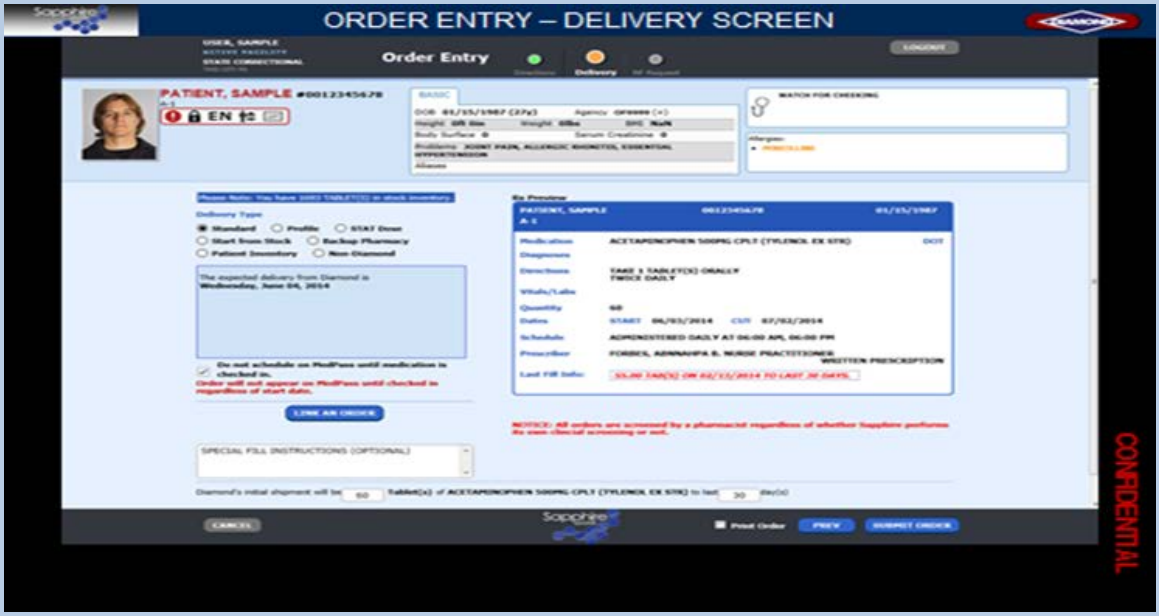
Secure Internet server and 256-bit encryption of all offline med pass data

- Full compliance with HIPAA regulations
- Secure and private data submissions and storage
- Exchange of data and information secured by HTTPS protocol

Password-protected access from any web-based computer

- Users can access Sapphire from any web-based computer, whether on-site at the facility or off-site, giving full access to patient profiles, medication orders and history

Diamond provides system access, routine upgrades on a 6- to 8-week cycle, on-site training, 24/7/365 support, and a jail management system (JMS) interface free-of-charge.



Sapphire provides a user-friendly interface.

User-friendly interface

- Faster ordering of new prescriptions and stock medications
- Easy reordering, extending, or discontinuing all medications
- No more peel-off labels that need faxed to the pharmacy for refill processing

Real-time electronic order transmission

- Easy initiation and documentation of OTC, stock, and emergency medications
- Improved clarity over paper orders and elimination of transcribing errors
- Increased accuracy over faxed order sheets that are difficult to read and interpret
- Time savings from the elimination of paper physician order sheets (that are traditionally faxed throughout the day by your staff who could be performing other healthcare related activities)
- Increased efficiency in the medication ordering, packaging, and delivery workflow process, allowing sooner deliveries and increased operational efficiency at your facility

Drug utilization review at the point-of-order entry

- Providers can clinically screen the order and prevent delays in initiating therapy
- Decreased drug-drug interactions, allergic reactions, duplicate medications, and other therapeutic interactions as your clinicians see the same consultative software as our pharmacists

Viewing patient profiles before transmitting an order

- Prescribers can quickly and clearly view a patient's active and inactive medication profile before prescribing new medications

You can view patient profiles at any time, including before prescribing new medications.

Most commonly used directions for specific medications provided during ordering

- Users can increase their data entry efficiency by viewing and selecting the most commonly used directions for the medication selected (for example, insulin sliding scales and complicated directions)

Protocol orders containing both medication orders and patient vitals

- Prescribers can enter their own standing orders and protocols for complicated therapy medication protocols (opiate withdrawal or alcohol withdrawal)

Quick reorder and refill queues

- Increased efficiency by giving users daily snapshot of what medications soon need to be rewritten or refilled

Barcode-enabled batch refills

- Allows users to either start or continue to refill medications based on barcodes to increase productivity and ensure a smooth workflow process

Automatic non-formulary alerts sent to the prescriber's queue

- Eliminates fax and/or paper formulary approval process
- Decreases the possibility of lost forms
- Improves turnaround time for approving non-formulary medications
- Allows our pharmacist to communicate completely electronically with your providers and medical director regarding alternative treatment recommendations

Advanced medication taper/titration orders

- Easily enter medication orders with tapered or titrated doses over a 30-day period

Completion of non-formulary requests online and forwarding of the approval to Diamond with the order

- Creates a faster non-formulary approval and medication distribution process
- Allows approved users to view previous and current approval log
- Eliminates the possibility of approvals becoming lost in the process
- Provides complete electronic documentation of every step of the non-formulary process

Integration with EHR systems

- Diamond currently works with several EHR companies to provide integrated systems
- The ability to use Sapphire for order entry and med pass through a single user log in while using other medical record options in a separate electronic health record (EHR)

eMAR integration designed specifically to work with our pharmacy applications

- Easy transmission of data across multiple platforms

Interface with your laboratory services provider

- Easy importation and viewing of laboratory values in Sapphire

Multi-stock order forms and electronic emergency stock order templates

- Easier and faster ordering of stock medications

OTC requests and administration recording

- Users can quickly view, administer, and document OTC medications from a pre-approved and customizable OTC medication list

Maintenance of all patient-specific and stock medication inventory

- Users can easily view and maintain patient specific and stock medication inventories through Sapphire and quickly refill stock medications
- Users can also set minimum, par, and maximum levels of stock medications

Inventory management for both patient-specific and stock medications is easy with Sapphire.

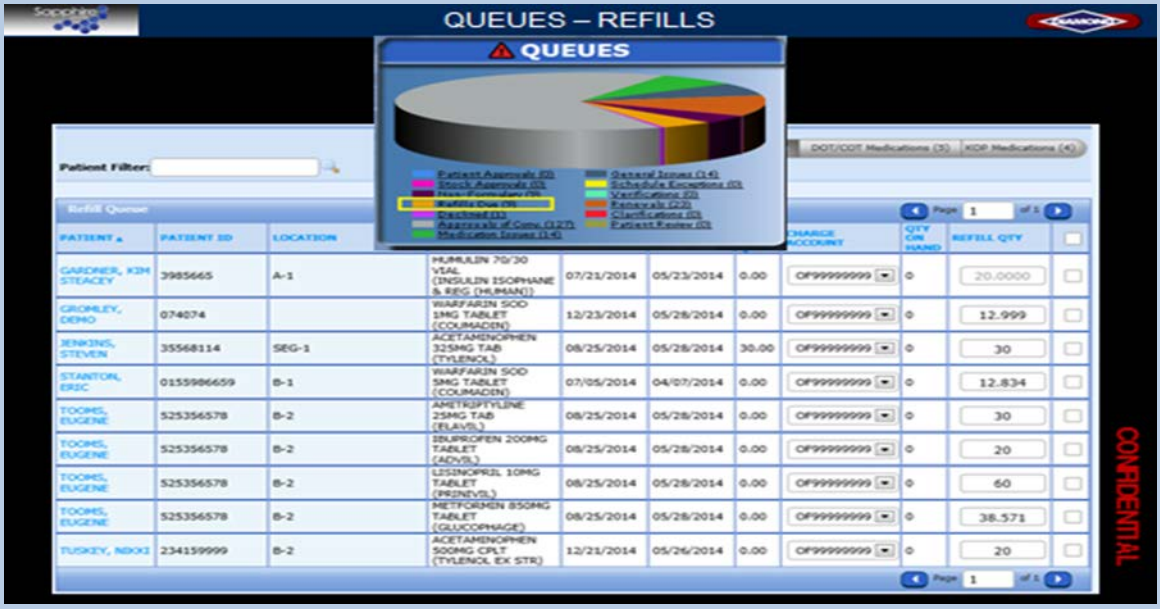
Documentation and review of vaccination and immunization records

- Logging of patient refusals on immunizations with stated reasons
- Tracking of specific medication lot numbers administered to each patient in the event of medication recalls

Sapphire Refill Process

If you use Sapphire, **the medication's actual refill due date is calculated based on the previous quantity dispensed and based on documentation of utilization from actual dispensing throughout the month that is recorded in the eMAR**. Once the agreed upon reorder point is reached, Sapphire prompts the user to submit the refill request and the order is then transmitted to Diamond.

Although most correctional systems we service prefer to have a staff member review all refill requests prior to submitting them, we have completely automated this process for customers who desire their refills to be submitted without staff intervention.

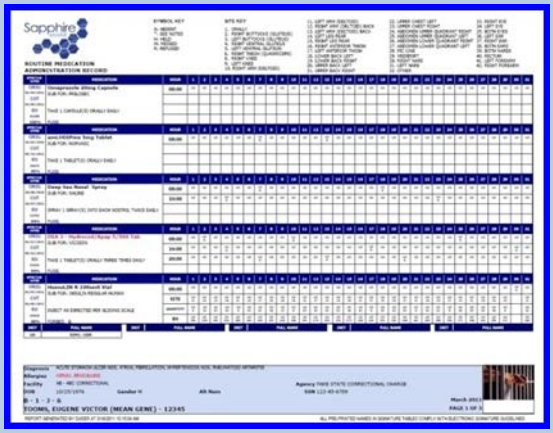


Refills are easy and efficient with Sapphire.

Sapphire eMAR (Electronic Medication Administration Record)

Sapphire eMAR is a paperless electronic medication administration record that enables your nursing staff to efficiently administer and track all medication administration functions. This software has extensive capabilities and is a significant upgrade from paper MARs. **We offer Sapphire eMAR at no charge when your facility purchases all medications from Diamond and transmits all orders using the Sapphire CPOE system.**

The software displays on screen all medications that are due for a selected med pass by patient, location, and medication (for example, patients in a particular cellblock using risperidone). This functionality eliminates the need for nursing staff to search for the appropriate paper MAR in a binder and locate the proper medications or schedule.



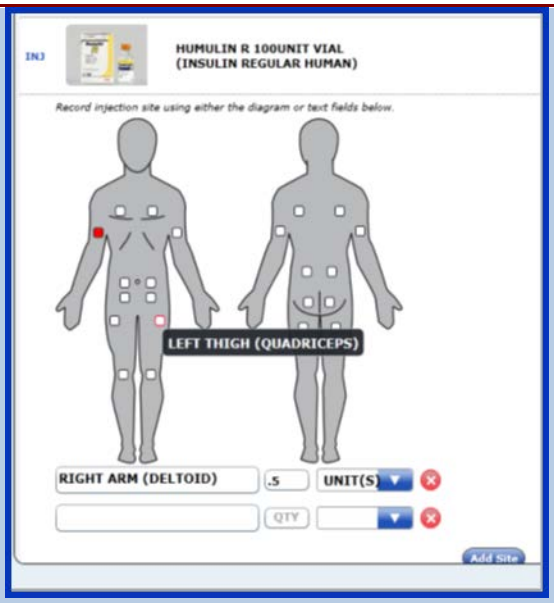
***Sapphire eMAR** is a paperless electronic medication administration record that your nursing staff can use to efficiently track all medication administration functions.*

✓ Sapphire is provided free-of-charge to the Williamson County Jail when all medications are purchased from Diamond and all orders are submitted using the Sapphire system.

The Sapphire eMAR medication management system provides several other easy-to-use medication-recording features:

- The barcode on the medication and patient's wristband/badge can be scanned to provide an electronic recording of the actual medication administration date, administration time, and the nurse's initials.
- For specialty units such as a psychiatric unit housing patients without wristbands/badges, the system allows the patient's number to be entered manually.
- KOP charting is available for the duration of the prescription, with custom KOP policies for your facility to keep staff informed of the medications that are KOP-eligible.
- A paper med pass list can be printed in an easy-to-use grid format, sorted by patient and unit, and providing all medications and administration times. (A paper med pass list is an efficient way to inform security staff of patients who need to report to the med line for stock medications.)
- A list of patients who missed the regularly scheduled med pass can be generated so those patients can be easily identified and called to receive their medications prior to the nurse leaving the area.
- Your staff can indicate reasons a medication was not administered (for example, a patient refused or dropped the medication, a patient did not show up, and a patient was at court).

- Throughout the med pass process, the system provides you with the percentage of the med pass that has been completed, by entire population and individual cellblock.
- For remote med pass or in areas without Wi-Fi, staff can work off-line with a laptop and synchronize later, when Internet access is restored.
- Sapphire archives 24 hours of previous med pass information in the case of power outage or Internet down time.
- Injection location is electronically charted.



*Sapphire eMAR can chart **injection locations**.*

Sapphire will quickly become an integral part of your quality assurance process. With Sapphire, you monitor compliance levels customized by your preference across any parameter or time. For example, you can examine a list of patients who missed three doses in the last month, the reasons they missed med pass, and their locations.

Sapphire eMAR eliminates month-end MAR changeovers, saving you time and money.

Diamond's Sapphire eMAR medication management system will save you and your staff a significant amount of time. **Our software eliminates the month-end paper MAR changeover because all medication orders and changes are automatically updated throughout the month.** Several of Diamond's largest customers such as the Pennsylvania, Virginia, and Minnesota DOCs have reduced med pass time by 50% or more and have eliminated the time—**and associated personnel costs**—previously devoted to monthly MAR changeovers. With Sapphire eMAR, reviewing MARs for accuracy or arranging them in new binders at the end of every month is simply unnecessary.

Five Rights of Medication Administration

Sapphire eMAR helps your nurses comply with established nursing standards regarding the "Five Rights of Medication Administration."

- **Right patient** is achieved by scanning patient wristbands and viewing patient profile photos at the time of administration.
- **Right drug** is achieved by scanning the barcode label on each blister card.
- **Right dose** and **right route** are achieved at the point-of-order entry by using the integrated Medi-Span consultative database.
- **Right time** is controlled by Sapphire, in that only medications ordered at a specific medication pass can be displayed during that medication pass time. Administering a medication not ordered for that medication pass is not possible.

Online Reporting with Sapphire

Nurses, executive prescribers, administrators, pharmacists, and other authorized users can easily look up patient profiles using our Sapphire web-based medication management system. On-call prescribers with an assigned user name and password can view patient histories from their home or remote office without needing to speak to nurses or manually search for paper documents**.** From any web-based computer, your staff has immediate access to all dispensing information. You can search by patient, prescriber, formulary status, medication, drug class, etc.

Sapphire can export results to Microsoft® Excel for you to sort data and to Adobe® Acrobat for you to print reports on-demand. Because Sapphire was designed internally by Diamond's IT staff, its reporting function can be customized and upgraded specifically to meet your facility's needs.

Almost any type of medication usage report can be quickly and easily generated using Sapphire.

Sapphire is not a substitute for Diamond's monthly management reports or any impromptu reports that the company provides. However, it greatly enhances your reporting capabilities by providing **on-demand** reports for your staff.

Your facility staff can generate the reports you need and use, such as this active compliance report, at any time using Sapphire.

Sapphire Training

If your facility wishes to implement our Sapphire computerized provider order entry (CPOE) and eMAR system for medication management, you will be introduced to a Sapphire transition specialist who will oversee your facility's transition and training. Sapphire is not a beta-system; **Diamond has successfully implemented this training and orientation at over 250 facilities nationwide.** Our transition specialists typically are on-site for 3 days, which allows them to exceed the training requirements of your staff.

Initial training consists of web-based training modules that are specific to each Sapphire task. Once users complete the modular training, they continue our web-based training in a simulated sandbox atmosphere. The sandbox remains available to any associate who later wants to participate in refresher training. When the modular training is complete, transition specialists visit each facility so they can be **on-site** for the transition and go-live of the Sapphire system. Additional training is conducted on-site to ensure facility staff and facility power users have the most complete understanding of all aspects of the electronic medication management system.

Sapphire Customer Support

Our 24/7/365 toll-free support line is available to help you with any concern your facility's power users cannot resolve. Throughout the day, overnight, on weekends, and on holidays, our customer service representatives are always available to address your concerns.

Sapphire Demonstration

An onsite or online (webinar) demonstration of our Sapphire system will gladly be provided to your staff during the evaluation process or prior to award. During this comprehensive demonstration, you will see first-hand how Sapphire is the most dynamic and robust CPOE and eMAR system in the correctional pharmacy industry.

Electronic Delivery Reconciliation & Inventory Management

✓ Our free, web-based electronic order reconciliation system is one of the many ways Diamond delivers operational efficiencies and provides additional value to customers using our technological solutions.

Diamond pioneered the concept of web-based electronic reconciliation software and was the industry first mover in deploying this software. Competitors, in an effort to keep up with Diamond's innovative spirit, have tried to piece together systems to offer their clients, but none is as dynamic, robust, or comprehensive as Diamond's system. Our **value-added standard** includes:

- Technology solutions for electronic daily order reconciliation (medication check-in)
- Electronic processing of medication returns and credits
- Electronic submission of prescription refill requests
- Electronic viewing of your daily delivery manifest throughout the day and before your order is shipped from Diamond
- Electronically management of your patient-specific and stock inventory

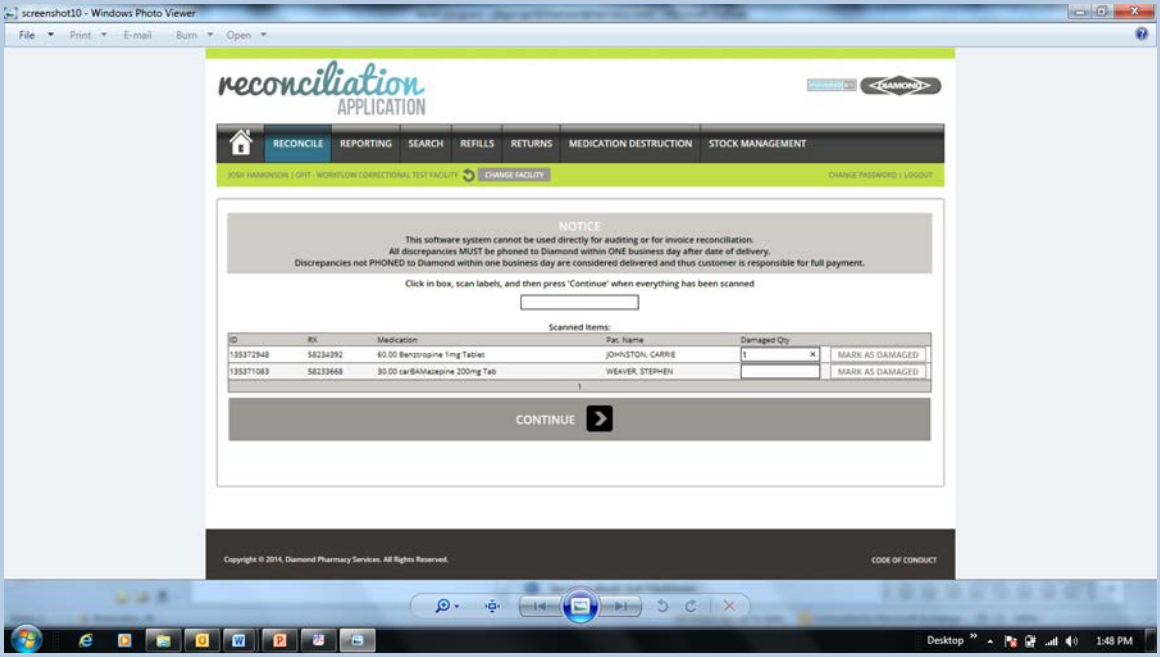
Diamond believes that technology solutions that **improve facility-level operations, decrease costs, and decrease your reliance on time-consuming manual and paper processes** provide tremendous value to your operation and your ability to effectively deliver healthcare to the inmate patients entrusted to your care.

Electronically tracking and reconciling your daily medication orders, returns, and credits will provide tremendous value by virtually eliminating the diversion of received and returned medications, as all transactions and system users are captured electronically. You will know who checked-in a particular order and who processed medication returns so you have immediate and reliable accountability of your staff. A comprehensive user manual is provided that details every aspect of the program's functionality along with additional staff training during facility orientation and transition.

Demonstration

Diamond would be pleased to provide the Williamson County Jail with a comprehensive demonstration of our technology solutions if time permits during your evaluation process.

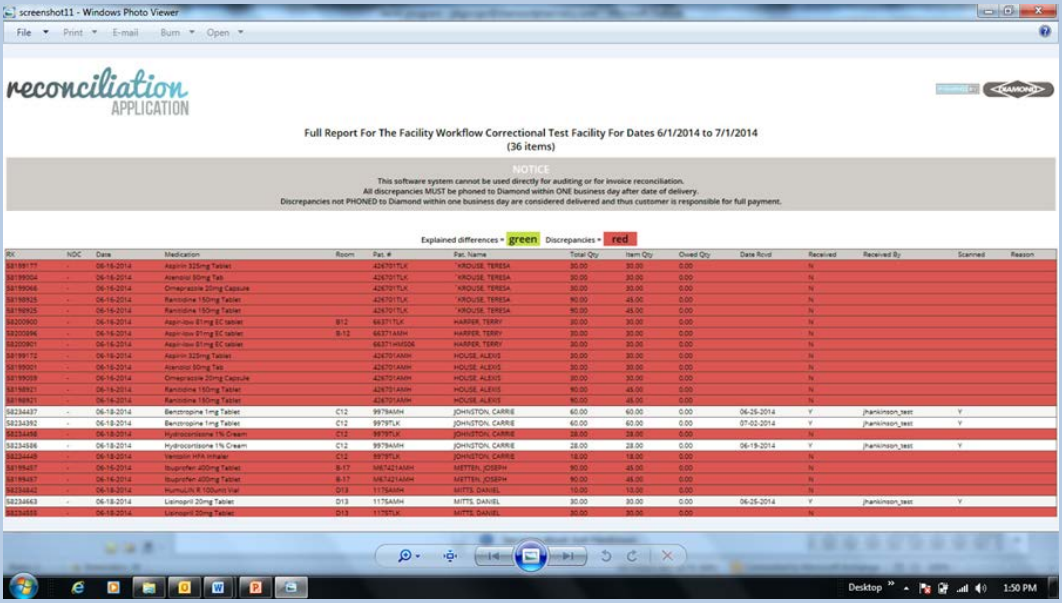
We provide these solutions to our customers a**t no additional cost**.



Your facility will proactively manage your medication orders with Diamond's electronic delivery reconciliation and inventory management system.

Reconciliation Process

With our reconciliation module of the program, you can view your order and see it as it builds during the day. It will show the items due to ship from Diamond and the items that cannot be shipped. Reasons why an item might not be shipped include the refill being ordered too soon, the medication not having any remaining refills, the medication being on manufacturer's backorder, or an order needing non-formulary approval.



With our reconciliation program, you can view your daily order and see it as it builds during the day, with the items due to ship and the items that cannot be shipped.

For order reconciliation, the process works as follows:

- Each day as your orders are received at Diamond, the medications move through Diamond's workflow management system until they are prepared for shipping.
- Each medication is assigned a prescription number and a unique identifier that is embedded in the barcoded label.
- When a medication is processed through the final workstation at our pharmacy, our electronic reconciliation program will start tracking that medication.
- As your daily shipment builds at Diamond, the prescription numbers and identifiers are fed into the reconciliation program.
- Once your order is completely filled, the medications are shipped to your facility.
- When your order arrives at your facility the next day, a staff member uses their secure username and password to log in to the system to access the reconciliation process.
- Your staff member scans each medication's barcode until the entire delivery is reconciled.
- At the end of the process, the system generates a report that lists all medications billed to your facility and notes any exceptions (medications not scanned in) from your actual reconciliation at your facility.

Resolving Shortages and Exceptions

Any medication not scanned in to the system at the facility level is listed on an exception report. Any shortages are to be resolved within 24 hours of order reconciliation. If no action is taken by your staff within 24 hours, a Diamond supervisor calls your facility with follow-up actions to close out any exceptions or to enquire why a medication was not scanned in by facility personnel.

Electronic Invoices

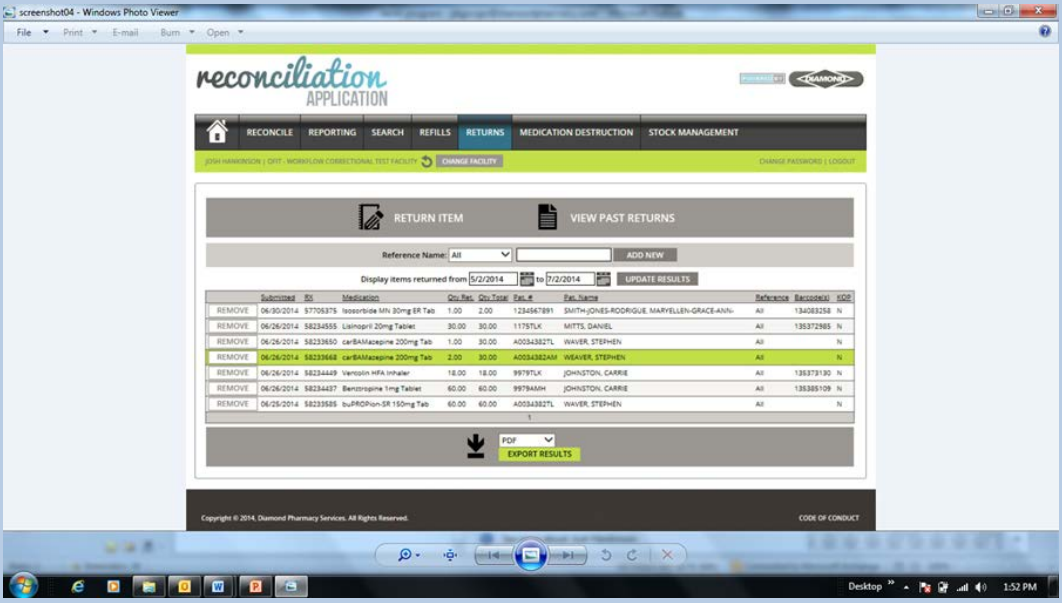
Each month, Diamond can provide your invoices electronically in Excel. You can use the invoice to compare the items Diamond billed to your facility with the items you electronically reconciled (scanned) when they were received at your facility. Any exceptions are reported to our billing department for immediate follow-up and resolution.

Medication Return Process

The medication return process also uses scanned barcodes and works the same as the reconciliation process.

- When you are ready to return medications that are eligible for credit, your staff opens that function in the reconciliation program.
- Your staff member scans the label on each medication you are sending back to Diamond for credit
- Our system captures the information, stores it perpetually, and provides you with an electronic record of all items processed under that particular medication return session.
- The data can be exported to Excel, and you can print a hard copy document for your records if you wish.
- Each month, we can electronically send our credit report to your facility in Excel.
- You can compare our credit report to your electronic file that lists your returned medications to ensure you are receiving the credit anticipated.
- Of note, although Diamond cannot take back medications for destruction and disposal, our electronic reconciliation program was enhanced to allow for medications disposed of at the facility level to be scanned into the system and accounted for to comply with security requirements.

By electronically handling all medication reconciliation and returns, your facility has an audit trail of all medications received at the facility and a complete accountability of all medications returned for processing.



By electronically handling all medication reconciliation and returns, your facility has an audit trail of all medications received at the facility and a complete accountability of all medications returned for processing

Stock Accountability

Your facility also can use our program to electronically track the assignment of stock medication cards removed from your on-site inventory, so that all utilization is concisely documented and all medications are accounted for at all times. This enhancement is a direct result of **our proactive approach to NCCHC patient safety standards that requires accredited facilities to have a mechanism in place to account for stock distribution and recordkeeping.**

Electronic Refill Submittal

Your staff can quickly submit electronic refill requests when using our program. You simply open the refill icon in the program and begin scanning the barcoded labels. **Your staff will no longer need to manually peel off a refill sticker from your prescription label, manually affix those to paper, manually copy the sheet prior to faxing, and then have to fax in a refill request that can stick to other refill sheets or get lost once received at the pharmacy.** With our electronic refill solution, orders are electronically submitted to Diamond for processing.

An added benefit of electronic refill submittal is our ability to alert your staff at the time of refill submittal if there are any issues with the refill order such as the refill was submitted too soon, the prescription is out of refills, or the refill was submitted after the cutoff date. Historically, your facility would not know until the delivery arrived at your facility if the submitted refill order was processed for dispensing. At Diamond, you will know at the point of order entry so your staff can proactively manage the refill request. Many times this results in the nursing staff needing to obtain a new order to ensure continuity of patient care. **Electronic refill capability means fewer missed medications, fewer grievances, and better patient outcomes.**

Data Storage

Our reconciliation system records the username of the individual processing any transaction (reconciliation, returns, inventory, and refills) within the system along with the exact date and time each line item is processed to allow for **proper documentation and complete accountability**. All reconciliation and return information (including prescription number, unique barcoded identifiers, date shipped, and medication name) is stored perpetually in our system to allow your management team and administration to easily search all reconciled medications for self-auditing and security purposes.

Advantages over Manual Reconciliation

Our electronic system provides tremendous value and has many advantages over manual reconciliation as we have detailed above.

Summary

✓ As you have seen throughout our proposal, Diamond works extremely hard to provide customers with quality services and tremendous value regarding customer service, pharmacy operations, clinical services, computerization, cost avoidance, and compliance with regulations.

Diamond has studied the Williamson County Jail's solicitation and we fully understand all requirements, specifications, and expectations. In fact, Diamond has similar processes in place at numerous other facilities in Texas, regionally, and nationwide.

Diamond has worked hard over the past several years on operational efficiencies, clinical innovations, and technological solutions in anticipation of Williamson County releasing this bid for pharmacy services. We have used the information and experience gained on your past procurement from 2014 to solidify our resolve, and we have committed substantial resources over the past several years to strengthen our operations while continuing to grow as a company so at this time we could provide Williamson County with the best possible bid and value.

Our proven methodologies and innovative approaches to your scope-of-work specifications will certainly provide **enhanced value and improved outcomes** in areas such as formulary management, clinical services, program support, regulatory compliance, and medication dispensing services. Diamond also delivers even **more value** to your program and mission by providing technological superiority in the areas of electronic order reconciliation and return processing; online reporting, electronic workflow reporting, electronic prescription order entry, and electronic medication pass (eMAR) capability. We also provide the most comprehensive monthly financial reporting in the industry.

Diamond will ensure continuity of patient care, a reliable delivery model, experienced pharmacist and order entry technicians—who will establish sincere relationships with your staff—and the commitment to work hard every day to greatly exceed your expectations. While other national and local bidders may promise you the world to obtain or retain your business, they honestly cannot deliver the operational, clinical, and technological services that Diamond provides.

We are excited with the possibility of transitioning your facility to Diamond and providing your staff with our products and services. With over three decades of experience and expertise in the correctional pharmacy industry, we know any transition to a new pharmacy vendor from the incumbent can be a time of unnecessary apprehension and anxiety for your staff. Diamond is the industry's longest tenured pharmacy provider. We make transitions smooth and seamless to eliminate any worries. Many times a comfort zone develops from working with a pharmacy vendor over time, and although their service may be adequate, this comfort can overshadow exciting opportunities that exist with changing pharmacy vendors and starting anew.

Your staff will not be adversely affected by a transition of service to Diamond, as the Williamson County Jail is already accustomed to an off-site pharmacy management program and many of the procedural aspects of your current operation will be the same regardless of pharmacy vendor. Orders will be transmitted to Diamond, as they are now, by the established order cutoff time. Diamond will process your orders that are received prior to your cutoff time or late orders that are phoned in, and they

will be delivered six days a week, Monday through Saturday, as they are now. Emergency orders will continue to be filled from facility first-dose starter stock or through local backup pharmacies, as they are now. As you can see, the Williamson County Jail will experience very little, if any, disruption to your current processes, but you will immediately gain **numerous enhancements and value with Diamond**.

With any new opportunity, our primary focus is to apply our 35 years of correctional pharmacy experience and expertise to best help the staff and administration at the Williamson County Jail. Throughout our proposal, we have detailed our services and capabilities. As a true partner to the Williamson County Jail, we wish to work at an even deeper level to gain full insight into your needs and current issues. Our products and services are aligned to accomplish the kind of results the Williamson County Jail seeks and expects from a pharmacy vendor.

The sincere and long-term relationships that Diamond has created with our existing clients is a result of our willingness to listen, discuss, and discern what issues really matter to our customers and then provide timely solutions. **We care about the issues our customers care about** and the problems they face, along with benefits and gain that will come to our customer from our collaborative successes in addressing those issues and solving those problems.

We understand that medication dispensing and pharmacy program management is a professional service, unlike commodity or product for which solicitations often are decided solely by the lowest price. Your evaluation team has been charged with the responsibility of analyzing and evaluating proposals to determine the strongest differentiators and best value among bidders. They will focus on factors—such as methodology, best practices, systems, and processes—that most likely have an impact over the long term. **Diamond will meet your requirements and exceed your expectations** in the delivery of high quality pharmacy services and program management to the Williamson County Jail.

With over three decades of correctional-specific pharmacy experience—not to mention decades more long-term care and retail pharmacy experience—Diamond is a vendor you can trust to properly manage your pharmacy program, to quickly and effectively deal with the unexpected, and to ensure compliance with regulatory and accrediting bodies to avoid unpleasant surprises. With Diamond, you will get more of the results that the Williamson County Jail desires the most.

We are independent and family-owned, which allows us to offer facilities the friendliest, most accurate, most cost-effective service in the correctional pharmacy industry. We do not need to report to shareholders or cut corners to meet the obligations of a publically traded company. The focus of your assigned pharmacist account executive, your order entry technicians, and our corporate administrative and technology support staff will be the Williamson County Jail.

Our proposal details several innovations, defines our qualifications, and establishes our credibility through our current and past performance serving regional, state, and local facilities of all sizes. Diamond is the firm that truly will **best serve the interests** of the Williamson County Jail to accomplish this project as defined in your solicitation.

We truly appreciate the opportunity available through your procurement to earn your trust and we hope to earn the award to become your correctional pharmacy services provider.

DIAMOND PHARMACY SERVICES

Diamond Pharmacy Services Bid

to

Williamson County, TX

September 18, 2017

Each prescription and stock piece will be billed as follows

The lower of Diamond's Usual & Customary (U&C) Price

or the following bid rate of

Brand-name and Single-source Medications = AWP less 22%

Generic Multi-source Medications = AWP less 95%

Regarding the Above Price

- On the Supplier Response From Price Sheet provided with the RFP and submitted via bid sync, please note that non-oral solids are priced per base unit metric quantity (per gram, per mL, etc.)
- Diamond's usual and customary (U&C) pricing is a more aggressive price over our proposed bid rate, as we can offer exceptionally low pricing on several commonly utilized medications due to our volume purchasing power. Our U&C pricing on certain medications can be as low as AWP less 98%.
- AWP is defined as Average Wholesale Price at the time of dispensing, as updated by Medi-Span®.
- Since AWP is a published rate, it may fluctuate (increase and decrease); however, our proposed discount to AWP will remain fixed and firm throughout the term of the contract.
- Single-source medications are generic entities that are provided from a single manufacturer.
- Maintenance medications are dispensed in a routine 30-day supply.
- Acute medications are dispensed in the quantity as written by the prescriber
- Medications are dispensed in 30-count blister cards with one unit per bubble.
- Stock and OTC stock medications can be dispensed in manufacturer bottles, if requested

The Above Bid Rate Includes:

- All services outlined in our proposal
- Any costs associated with the dispensing and delivery of medication to your facility from Diamond
- Startup in-service training, orientation, and ongoing training
- A pharmacist serving as the primary contact and account manager
- A pharmacist for onsite quarterly inspections where required by law or accreditation, if requested
- Pharmacist participation in quarterly P&T meetings via teleconference or webinar
- 24-hour a day, 7-day a week, and 365-day a year (24/7/365) telephone consulting
- Medication carts on loan for the duration of the contract
- Fax machine on loan for the duration of the contract
- Accurate and meaningful monthly, routine, and ad hoc reports
- No additional software charges for electronic ordering and electronic medication administration records (eMARs) if you choose our Sapphire computerized physician order entry (CPOE) and eMAR solution when all medications are purchased from Diamond and all medications are transmitted electronically via Sapphire. Please recall from our proposal that Sapphire is a web-based hosted solution, which means you do not have to purchase or provide onsite hardware or servers or increase your IT staff to deploy our system.
- No additional charges for Sapphire CPOE/eMAR routine software updates, initial training, initial jail management system (JMS) interfacing, and 24/7 IT support. Williamson County will be responsible for charges related to internet access and any ongoing JMS fees (if they are even assessed by the JMS company).
- No additional cost for two laptops provided on loan for the deployment of Sapphire CPOE/eMAR. Hardware replacement will be covered according to the original manufacturer's warranty. Replacement of any laptops not covered under original manufacturer's warranty or damaged due to negligence or misuse will be the responsibility of the facility.
- Access to Diamond's free web-based electronic reconciliation (medication check-in and credit) program
- No additional cost for one handheld tethered scanner provide on loan to be used for electronic medication reconciliation (check-in) and medication return processing, if requested
- Access to Diamond's free web-based Online Reporting Program (ORP) and utilization dashboard

Additionally:

- If Williamson County is seeking a comprehensive electronic health record (EHR) / electronic medical record (EMR) solution, Diamond offers an EMR/EHR at a negotiable price.
- For any pharmacy interfaces, including those for prescription transmission, with other EMRs/EHRs or third party vendors, Diamond will be responsible only for interface charges and programming required on Diamond's end of the interface.
- Any transmission fees or submisison fees or other fees and charges which are charged by an EHR/EMR, switch company, or any other company not specific to the above will be billed as a pass-through charge
- Diamond will retain and reserves all rights, title, use, control, interest in and ownership of its assets including, but not limited to, its software, reporting, packages, and user documentation; operations, procedures, and strategies; formulary and clinical services; manufacturer, wholesaler, group purchase, and vendor contracts and resultant data and information; patient, claims, and drug utilization information; trademarks and service marks.
- Backup pharmacy services will be billed as a pass-through charge at the contracted backup pharmacy's rate—as billed through a pharmacy benefit management (PBM) company—plus the backup pharmacy's delivery charge or on-call charge, or the taxi or courier charge, if applicable.
- Inspections or facility visits more frequent than quarterly will be billed as a pass-through charge.
- If your facility requires fewer days' worth of medication in a routine supply, or if you require packaging other than blister cards, a newer rate will be negotiated.
- All medications and over-the-counter (OTC) items that the facility purchases, except backup orders that Diamond submits to local pharmacies on your behalf, must be purchased from Diamond.
- Durable medical equipment (DME) and medical supplies are billed at Diamond's correctional pricing, and prices will be quoted on a case-by-case basis, when requested.
- Medications will not be discounted and sold below cost. If our proposed discount to average wholesale price reduces the price of the medication below Diamond's actual acquisition cost, the medication will be dispensed at Diamond's actual acquisition cost plus a dispensing fee of two dollars and ninety-five cents.
- Specialty pharmaceutical items - those items that are not available through primary wholesalers that must be ordered through specialty channels, drop shipped, and/or that require pharmacist or other intervention to procure, such as, but not limited to plasma products, factor products specialty vaccines, medications with REMS requirements, limited distribution medications, and chemotherapy agents are invoiced at the price charged to Diamond from the specialty pharmacy plus ten percent.
- IV Medications are billed at the Average Wholesale Price (AWP) per ingredient as published by Medi-Span, plus five dollars per piece.
- Total Parenteral Nutrition (TPN) Products will be billed at Diamond's Actual Acquisition Cost per ingredient plus a dispensing fee of seventy five dollars per bag.
- Non-sterile compounded medications will be billed at Diamond's Actual Acquisition Cost per ingredient plus compounding labor plus twenty dollars per piece.

- With appropriate access to the patient's full medication chart, Alternative Treatment Recommendations (ATRs) as detailed in our proposal response are provided by Diamond's clinical pharmacists for non-formulary medication orders. If requested, Diamond will provide unlimited monthly routine ATRs for the Williamson County Jail at a rate to be negotiated.
- With appropriate access to the patients' full medication chart, Diamond will work to help manage high-risk and high-cost patients on a case-by-case basis with the development of individualized care plans, if requested. Diamond offers this service at a rate to be negotiated.
- Diamond will provide targeted tele-pharmacy clinical consultations through videoconference for complex and high-acuity patients. If requested, these consultations are billed at a rate of seventy five dollars per hour with a one hour minimum required.
- If it is determined that an on-site clinical pharmacist is required either through law, accreditation, contract requirement, or the high-cost avoidance potential, the costs for providing on-site pharmacists will be negotiated based upon your specific needs and the number of pharmacists needed in the system.
- Medications dispensed under a 340B program will be billed under a separately negotiated rate (to be determined) if we are able to successfully establish a program with your facility and a covered entity.
- If the services of a reverse distributor become necessary for the disposition of controlled substances, those charges will be billed as a pass-through charge at the reverse distributor's contracted rate or at Williamson County's expense if you contract directly with the reverse distributor.
- If the services of a waste company become necessary for the disposition of hazardous and non-hazardous pharmaceutical waste, those charges will be billed as a pass-through charge at the waste company's contracted rate or at Williamson County's expense if you contract directly with the waste company.
- Shipping costs are included as part of our bid rate. Diamond utilizes a preferred shipping partner. If a common carrier other than our preferred shipping partner is requested, those costs for shipping will be billed as a pass through charge.
- Payment by credit card or purchase card will be assessed a three percent convenience fee.
- Invoicing will occur monthly. Payment shall be made by wire transfer from Williamson County to Diamond within thirty days of receipt of invoice by County. A finance charge of one and one-quarter percent per month will be charged on all amounts received thirty days past the end of the billing cycle.
- Williamson County is responsible for all applicable sales, use, lease, ad valorem, and any other tax that may be levied or assessed by reason of this transaction, unless your facility provides a tax exemption certificate (blanket or transaction specific) to Diamond in a timely manner.

Credit on Returns

Due to the costs resulting from inmate turnover and medication changes and due to the rising price of medications, Diamond realizes the importance of issuing credit on returned medications. We are offering credit on oral solid medications in full and partial blister cards at 100% of the medication actual acquisition cost at the time of dispensing less a ninety-five cent processing fee per returned card. **There is no card value minimum cost for a medication to be eligible for return.**

Acting as your partner in helping reduce waste and costs, when and where permitted by the State Board of Pharmacy and the U.S. Food and Drug Administration (FDA), Diamond offers credit on oral solid medications in full and partial blister card medications returned to us, provided the medications:

- Remain in their original sealed blister packs
- Have been stored under proper conditions
- Are not defaced or have been adulterated
- Are not within 3 months of expiration
- Are packed as one full unit per blister
- Have not been released to the inmate population or labeled/dispensed as keep on person
- Are not controlled substances
- Have not been billed to a private insurance, third party, USM, ICE, 340B, or Medicaid

Diamond offers credit on full and partial blister cards.

Diamond is responsible for shipping costs for all returned medications and provides your facility with prepaid preaddressed FedEx Package Returns Program (PRP) or UPS Authorized Return Service (ARS) labels. These labels are simply affixed to the return box, which is handed to express delivery personnel during their normal pickup/delivery to your facility.

In 2016, Diamond provided $18.9 million in credit to our customers.

Controlled substance medications and opened partial stock medications cannot be credited per federal regulations. Credits are issued on medications based upon the professional judgment of a Diamond pharmacist and not exceeding the current market value of the medication. Liquids, injections, topicals, medications dispensed in vials, and inhalers are not eligible for credit. Blister cards that are dispensed with half tablets or with more than one single unit per individual bubble of the blister card are not eligible for return. Oral solid medications dispensed as Brand Medically Necessary or Dispense as Written will be credited at the actual acquisition cost of the generic equivalent. Oral solid medications returned in originally sealed manufacturer's containers will be eligible for credit in accordance with the policy above. Returns received at Diamond, during the term of the contract, by the 15th of each month will be credited on the next invoice for that calendar month. Credit memos will be deducted from payment of the oldest outstanding invoices. Medications ineligible for credit will not be returned.

Final Note

Diamond is offering a very aggressive discount to AWP, hoping to secure a contract opportunity with your facility. We believe that Williamson County will find Diamond to be the most advantageous pharmacy services provider that will best serve the interests of the Williamson County Jail.

We truly believe that our clinical services, operational efficiencies, technological innovations, proactive pharmacist-centered formulary management, comprehensive ad hoc and web-based reporting, web-based reconciliation and credit processing, 340B program management, and Sapphire electronic ordering and eMAR solutions—detailed in our proposal—set Diamond apart from other national or local correctional pharmacy services providers bidding on this solicitation.

Diamond is the largest provider of correctional pharmacy services and has the largest purchasing power within the industry. With Diamond's unprecedented growth, we increased our customer base by 35% over the past couple years, and this has allowed us to negotiate even lower rates with our suppliers on both brand name and generic medications. This is the reason we can offer additional savings on select medications at our usual and customary pricing that is below our proposed discounts to AWP.

Your pharmacist account manager also receives a daily price file that allows us to swiftly notify you of significant price changes. We will maximize cost avoidance to your facility while maintaining the highest clinical standards with available alternative therapies that maintain positive patient outcomes. Please also realize that Diamond provides financial value in areas other than just pricing, such as:

- Preventing fines and disciplinary action by adherence to regulatory agencies and accrediting agencies in regard to stock distribution and repackaging services
- Strong formulary management and clinical services
- Operational efficiencies through electronic ordering and electronic medication pass
- A generous and legal process for medication returns and credits, and
- Accurate and meaningful reporting that identifies prescriber ordering trends and high cost medications

We hope there is an opportunity during the evaluation process for a live presentation to your team so we can further discuss in greater detail our innovative proposal recommendations and aggressive pricing model that is being offered.

Thank you again for your time and consideration of our proposal.

MASTER PHARMACY SERVICES AGREEMENT

THIS AGREEMENT is effective the _____ day of _____ 20____ by and between _____, located at _____, (hereinafter referred to as "___") and Diamond Drugs, Inc., aka Diamond Pharmacy Services, and/or Diamond Medical Supply, RemedyRepack, SapphireHealth, and InnovaScript, a Pennsylvania FACILITY having principal offices at 645 Kolter Drive, Indiana, PA 15701-3570 (hereinafter referred to as "DIAMOND").

WHEREAS, (FACILITY) is obligated to provide healthcare services for its correctional patients;

WHEREAS, DIAMOND contracts to provide services to correctional healthcare services companies and correctional facilities;

WHEREAS, (FACILITY) wishes to engage DIAMOND to provide services to their correctional patients;

WHEREAS, DIAMOND wishes to provide such services to FACILITY as agreed to between the Parties;

WHEREAS, in consideration of the mutual agreements and covenants contained herein and other good and valuable consideration, receipt of which is hereby acknowledged, the Parties hereto, intending to be legally bound, hereby agree as follows:

2. **DIAMOND RESPONSIBILITIES** - DIAMOND agrees to provide prescription dispensing services, pharmacy benefit management services, software services, and medical supplies to FACILITY and to furnish all qualified personnel, equipment, materials and services in consultation with (FACILITY), necessary to perform the services described under the terms of this Agreement.

3. **(FACILITY) RESPONSIBILITIES**:

a. To pay to DIAMOND all fees for services rendered as outlined in Attachment "A" to this Agreement.

b. To furnish all legally required medication and product order information to DIAMOND on any Formulary and Non-Formulary Medications prescribed for inmates of the FACILITY.

c. (FACILITY) acknowledges that some Pharmacy Services may be billable to separate agencies including but not limited to: Federal Bureau of Prison, U.S. Marshall Service, ICE, compensation, Medical Assistance, ADAP, other counties, or other "outside sources", depending on patient eligibility. If requested in writing by (FACILITY), DIAMOND will submit eligible bills to such outside sources, and prescriptions will be billed at the Medicaid rate. In the event that any amounts billed to an outside source remain unpaid after sixty (60) days, (FACILITY) remains responsible for payment to DIAMOND. Such responsibility is independent of whether or not (FACILITY) has received payment from outside sources for any such charges.

d. It is (FACILITY)'s responsibility to provide DIAMOND all appropriate and accurate patient and billing information prior to submitting orders. Billing other agencies is provided by DIAMOND as a courtesy and DIAMOND will not be responsible for any third Party claims which are not invoiced accurately due to (FACILITY)'s failure to provide the correct patient billing information.

e. It is (FACILITY)'s responsibility to verify its invoices monthly to assure claims were billed to the proper agency on a monthly basis and inform DIAMOND of any discrepancies within fifteen (15) days of receipt of invoices.

f. (FACILITY) is responsible for all applicable sales, use, lease, ad valorem, and any other tax that may be levied or assessed by reason of this transaction, unless (FACILITY) provides a tax exemption certificate (blanket or transaction specific) to DIAMOND in a timely manner.

g. Pay all invoices and other payments due to DIAMOND via EFT or to:

Diamond Drugs, Inc.
Diamond Pharmacy Services
P.O. Box 200796
Pittsburgh, PA 15251-0796

4. EQUIPMENT - In the event that a RFP or bid and bidding procedures require such, DIAMOND shall provide an adequate number of medication carts for each facility serviced to accommodate their respective needs, and one (1) fax machine that will be dedicated solely for use with operations related to DIAMOND's services. This equipment will remain the property of DIAMOND throughout performance of the terms of this Agreement. Upon termination or expiration of this Agreement, (FACILITY) agrees to return such equipment to DIAMOND within fifteen (15) days of service termination or expiration. (FACILITY) will be charged for any damages of said equipment while in (FACILITY)'s possession up through DIAMOND's receipt of the returned equipment. If (FACILITY) fails to return the equipment within fifteen (15) days, (FACILITY) will be responsible for paying DIAMOND an amount equal the replacement cost for new equipment equivalent to the equipment retained by (FACILITY).

5. INTELLECTUAL PROPERTY - (FACILITY) agrees that DIAMOND and its affiliated company SapphireHealth, LLC retains all rights, title, interest in and ownership, and reserves the right to use and control the use of its intellectual property rights in its assets including, but not limited to, its software, reporting packages and user documentation; operations, procedures and strategies; formulary and clinical services; manufacturer, wholesaler, group purchase, vendor contracts and resultant data and information; patient, prescription claim and drug utilization submission; trademarks and service marks. This Agreement creates no express or implied license for (FACILITY) to use such intellectual property for any purpose other than carrying out its responsibilities under this Agreement.

6. TERM AND TERMINATION - The initial term of this Agreement shall commence on _____ _____, 20____, and continue for a period of five (5) years, at which point the contract shall automatically renew for consecutive five (5) year periods unless either Party provides notice of its intent not to renew this Agreement AT LEAST one hundred twenty (120) days prior to the automatic renewal date.

Either Party may terminate This Agreement for significant breach of the terms and conditions of this Agreement by the other party by using the following procedure provided that the non-breaching party shall deliver a detailed, written notice of such breach that allows the breaching Party sixty (60) days to cure said breach. If the Breach is not cured to the reasonable satisfaction of the non-breaching Party within sixty (60) days, this agreement shall terminate upon delivery, by the non-breaching Party, of a final written notice that the Breach has not been cured to the reasonable satisfaction of the non-breaching Party. DIAMOND has the right to terminate this Agreement immediately for payment delays of more than thirty (30) days past any invoice date. The Parties may, by mutual consent, terminate this Agreement at any time only under circumstances and terms mutually agreed upon. Terminations for convenience will not be permitted.

7. INSURANCE, INDEMNIFICATION, AND FINES

a. **Insurance** - Both DIAMOND and (FACILITY) shall maintain professional and general liability insurance coverage at a minimum in the amount of one million dollars per occurrence, and five million dollars aggregate, naming the other as an additional insured. This insurance will be fully applicable to all services rendered by Party under this Agreement subject to the normal terms and exclusions of the

policy. Each Party will provide the other with a certificate evidencing that the insurance is in place upon this execution of this Agreement. Each policy will provide for at least thirty (30) days written notice before any cancellation or alteration in policy terms before any term can be changed, or the policy cancelled. Each Party agrees to send the other copies of any notices of cancellation or alteration, and that they will do so within ten (10) days of the receipt of any notice.

b. **Indemnification** – Negligent Acts of Either Party - (FACILITY) agrees to indemnify, defend, and hold harmless DIAMOND, its agents, officers, and independent DIAMONDs individually or collectively, from any and all claims, demands, liabilities, loss, costs or expenses for any loss, damage or injury, caused by the negligent acts or omissions of (FACILITY) or any of its employees, subcontractors, and agents.

DIAMOND agrees to indemnify, defend, and hold harmless (FACILITY), its agents, officers, and independent DIAMONDs individually or collectively, from any and all claims, demands, liabilities, loss, costs or expenses for any loss, damage or injury, caused by the negligent acts or omissions of DIAMOND or any of its employees, subcontractors and agents. This indemnification includes all costs and expenses, including reasonable attorney fees.

Either Party or any Party affected by this contract shall be entitled, at their own expense, to participate or have their agents or attorneys participate in the defense of any suit against the other where the Party wishing to participate has, or may have, an indemnification obligation to the other Party. Each understands and agrees that any settlement, compromise or consent judgment of any claim, loss or damage asserted against either Party, or anyone contracting under either Party who provided services under this Agreement, shall not be binding against the other, unless that Party has expressly approved the settlement, compromise or consent judgment in writing.

The indemnification and hold harmless provisions of this Agreement shall survive the termination of this Agreement for a period not to exceed that period upon which a claim for loss or damages could be brought against either DIAMOND or (FACILITY) under the statute of limitation applicable to any act or acts by either Party. If any complaint or litigation arising out of the terms and conditions of this Agreement is filed against either Party, the Party served will notify the other Party in writing by providing the other Party with a copy of the complaint or notice of claim at which point the indemnification provisions of this Agreement will become enforceable.

c. **Indemnification for Civil Fines, Penalties or other Monetary Assessments** - Any fine, penalty or other monetary assessment ("Fines") issued against either Party by any State Board of Pharmacy, DEA, FDA, Facility, State, County or any other federal or state entity with jurisdiction over (FACILITY) shall be the responsibility of the Party whose conduct is the subject of such Fines, regardless of which Party to this Contract is named and against whom the Fine is actually assessed. Thus, (FACILITY) will indemnify Diamond with respect to any Fines assessed by the State Board of Pharmacy or other agency against DIAMOND based on the acts or omissions of the (FACILITY); and Diamond will indemnify (FACILITY) with respect to any Fines assessed by the State Board of Pharmacy or other agency against (FACILITY) based on the acts or omissions of DIAMOND for non-compliance or arising from the failure of DIAMOND to provide services in accordance with this Agreement.

8. NOTICE - All notices, designations, consents, offers, acceptance or any other communication provided for herein required to be in writing will be given by registered, certified mail, return receipt requested, overnight courier addressed to the Parties as shown below:

(FACILITY):	_____	DIAMOND:	Diamond Drugs, Inc.
	_____		Attn: Mark J. Zilner
	_____		645 Kolter Drive
	_____		Indiana, PA 15701

9. **GOVERNING LAW AND VENUE** - The laws of the Commonwealth of Pennsylvania shall govern this Agreement as to the interpretation, construction and performance of the Parties. Any dispute that should arise between the Parties as related to performance of this Agreement or in any way relating to this Agreement shall be resolved in the courts of Indiana County, Pennsylvania.

10. **AMENDMENTS** - This Agreement may be amended, changed or modified only in writing, signed by authorized representatives of each of the Parties hereto.

11. **REPRESENTATIONS** - BOTH PARTIES will comply with all applicable laws and regulations related to providing services under this Agreement, including ensuring that Both Parties and all employees of BOTH PARTIES comply with any and all licensing requirements, any and all applicable environmental laws and regulations, any and all federal, state, and local regulations and all state non-discrimination requirements.

12. **CONFIDENTIALITY** - The Parties acknowledge that in carrying out their obligations under this Agreement, the Parties may have to exchange or otherwise divulge Confidential Business information, including, but not limited to, FACILITY lists, vendor lists, pricing, proprietary procedures, software programs, and business processes, the formulary, etc. The Party receiving such proprietary information SHALL NOT DISCLOSE such information to any third-Party individual organization or entity without the prior, express, written approval from the original Disclosing Party. Each Party certifies that they have policies and procedures in place that will protect the Disclosing Party from the re-Disclosure of any such Confidential Information. If a Party believes they are required by law to re-Disclose such information, that Party has a Duty to notify the original Disclosing Party, in writing, of the need for such re-disclosure within such time that allows the Other Party to file objections or to otherwise defend against such re-disclosure.

    DIAMOND and (FACILITY) each agree to maintain and ensure the confidentiality, privacy, and security of patient information to the extent required by law and each Party's policy. Without limiting the generality of the foregoing, The Parties agree to comply with the Health Insurance Portability and Accountability Act of 1996 with respect to the privacy and security of "protected health information" (as defined by HIPAA) created, transmitted, maintained or received pursuant to, or in connection with, the performance of DIAMOND obligations under this Agreement.

    The Parties acknowledge that federal regulations relating to the confidentiality of individually identifiable health information require covered entities to comply with the privacy standards adopted by the U.S. Department of Health and Human Services as they may be amended from time to time (codified at 45 C.F.R. Parts 160 and 164) ("Privacy Standards"). The Privacy Standards require covered entities to ensure that business associates who receive confidential information in the course of providing services comply with certain obligations regarding the confidentiality of health information.

13. **SEVERABILITY** - If any provision of this Agreement shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court finds that any provision of this agreement is invalid or unenforceable, but that by limiting such provision it would become valid and enforceable, then such provision shall be deemed to be written, construed and enforced as so limited.

14. **WAIVER OF CONTRACTUAL RIGHT** - The failure of either Party to enforce any provision of this Agreement shall not be construed as a waiver or limitation of that Party's right to subsequently enforce and compel strict compliance with every provision of this Agreement.

15. **SCOPE OF AGREEMENT** - By execution of this Agreement, Both Parties agree to the terms and conditions set forth herein. This Agreement supersedes any and all other agreements, either oral or in writing,

between the contracting Parties with respect to the subject matter covered by this Agreement, and no other agreement, statement, or promise relating to the subject matter of this Agreement that is not contained in this Agreement shall be valid or binding unless in writing as an amendment and signed by Both Parties.

16. **COOPERATION** - Both Parties agree to use their best efforts to cooperate with each other in providing all information pertaining to all legal and regulatory compliance requirements when providing services under this Agreement, and will duly investigate and comply with any complaints brought to the other's attention by the other Party immediately. DIAMOND and (FACILITY) agree to work with each other in good faith to rectify any problems that may arise between Parties.

17. **FORCE MAJEURE -** Neither Party shall be in breach of this Agreement if the failure to perform arises out of causes beyond the control and without the fault of that Party. Such causes may include, but are not restricted to strikes or labor disputes, inmate disturbances, acts of God, acts of civil and military authority, acts of public enemy, fires, explosions, earthquakes, supplies, manufacturers, and floods. Such non-performing Party shall immediately notify the other Party in writing of its inability to perform by specifying all reasons constituting the cause or causes beyond its control and without its fault.

IN WITNESS WHEREOF, intending to be legally bound, the Parties have caused their authorized representative to execute this Agreement on the date set forth above.

DIAMOND:	**FACILITY:**
Diamond Drugs, Inc., **a Pennsylvania FACILITY, a.k.a. Diamond Pharmacy Services**	
By: _____	**By:** _____
Title: _____	**Title:** _____
Date: _____	**Date:** _____

This certifies that the pharmacy named below is hereby licensed to operate as a Class **ES** pharmacy.

License No. **16925** Expiration Date: **1/31/2018**

Balances: **0**

DIAMOND PHARMACY SERVICES
645 KOLTER DR
INDIANA PA 15701

Gay Dodson, R.Ph.
Executive Director/Secretary

MUST BE DISPLAYED IN FULL PUBLIC VIEW

TEXAS DEPARTMENT OF STATE HEALTH SERVICES
REGULATORY LICENSING UNIT

DIAMOND DRUGS INC DBA
DIAMOND PHARMACY SERVICES
665 KOLTER DR
INDIANA, PA 15701

Pursuant to Health and Safety Code Chapter 431 (Food, Drug, Device, and Cosmetic Act) and Title 25 of the Texas Administrative Code, and in reliance on statements and representations made by licensee, the licensee shall be subject to all applicable rules, regulations and orders of the Texas Department of State Health Services now or hereafter in effect. The above licensee is authorized to engage in the following activities:

OUT OF STATE WHOLESALE DISTRIBUTOR OF PRESCRIPTION DRUGS

License # 0076023
Expires: June 30, 2018

NON-TRANSFERABLE

Commissioner

508230

REMEDYREPACK INC
625 KOLTER DR STE 4
INDIANA PA 15701

TEXAS DEPARTMENT OF STATE HEALTH SERVICES
REGULATORY LICENSING UNIT

REMEDYREPACK INC

625 KOLTER DR STE 4
INDIANA, PA 15701

Pursuant to Health and Safety Code Chapter 431 (Food, Drug, Device, and Cosmetic Act) and Title 25 of the Texas Administrative Code, and in reliance on statements and representations made by licensee, the licensee shall be subject to all applicable rules, regulations and orders of the Texas Department of State Health Services now or hereafter in effect. The above licensee is authorized to engage in the following activities:

OUT OF STATE WHOLESALE DISTRIBUTOR OF PRESCRIPTION DRUGS

License # 1001536
Expires: November 24, 2018

NON-TRANSFERABLE

Commissioner

508641

Sapphire—Diamond Pharmacy Services' innovative pharmacy management software—increases staff efficiency and productivity, eliminates paper and manual processes, reduces ordering/dispensing errors, and saves you money. By using Sapphire, your staff can better manage time and workflow while improving the delivery of high-quality care centered on positive patient outcomes.

Diamond's focus is the correctional pharmacy industry. As our client list has grown and industry demands have changed, our extensive knowledge of the correctional pharmacy industry dictated that we grow and meet these demands accordingly.

In 2005, Diamond recognized that the correctional industry was lacking a comprehensive computerized physician order entry (CPOE) and electronic medication administration record (eMAR) system. We began evaluating off-the-shelf systems that possibly could meet the unique needs of correctional facilities. We realized, however, that commercially available products were not true solutions, capable of being deployed in a correctional setting and meeting the specialized needs of the correctional pharmacy and healthcare industry.

Instead of trying to customize an off-the-shelf system with perpetual upgrades and enhancements, Diamond embarked on a mission to develop an easy-to-use, dynamic, robust, correctional-specific CPOE and eMAR system. During the past 10 years, Diamond has fulfilled this mission through SapphireHealth, our wholly owned subsidiary that supports our Sapphire's CPOE, eMAR, and electronic health record (EHR) systems.

Customer feedback from clinicians, administrators, and nurses who work in the correctional healthcare industry guided Sapphire's development. To this day, we continue to welcome suggestions from our customers for enhancements. We incorporate these enhancements—which increase efficiency, provide clinical solutions, and reduce liability in medication ordering and administering processes—into Sapphire.

Sapphire reduces human error, eliminates paper-processing, assists with inventory management, provides unparalleled reporting, and helps you control drug costs. Sapphire is a complete system, designed to eliminate time spent by nurses on faxing, transcribing orders, clarifying orders, conducting monthly MAR changeovers, and handling other manual or paper tasks. Thus, Sapphire increases your staff's productivity and their time available for patient care. Sapphire provides accurate and reliable reporting, drug-utilization-review alerts, formulary management capabilities, importation of laboratory values, and displays of vital signs.

In Sapphire, your healthcare team has real-time access to patient records and pharmacy information that was previously available only in paper charts; you do not need to write paper orders and fax the orders to the pharmacy. Sapphire also dramatically improves order accuracy by transmitting orders electronically through an HL7 interface and not through file transfers or emails that are features of other systems. Our system also decreases medication errors that were often seen in the past due to poor handwriting or incorrect transcription of an order by the nursing staff.

Electronic Ordering with Sapphire

Benefits of a Hosted Solution

Sapphire is a completely hosted solution. You do not need an onsite server any additional system hardware to access and use the system, and you do not need to hire additional IT staff to deploy and maintain the system.

Reliability – Our hosted solution brings with it a load-balanced architecture, redundancy across data centers, and 99.95% up time. In other words, we are responsible for ensuring that our software is always running and the application is available to our customers. Sapphire has a robust backup, recovery, and redundancy system to deal with power outages, hardware issues, offsite storage, threat protection, and network outages.

Maintenance – Ongoing maintenance, upgrades, and system monitoring require IT resources and an internal commitment to maintain new releases and patches. With a hosted software solution, you can keep your internal resources focused on your important projects and leave the ongoing maintenance items to our team.

Cost – Traditional software implementations can cost large sums of money in terms of fees and costs related to implementation, hardware, licensing, and ongoing maintenance. Hosted software solutions help you realize a lower total cost of ownership with benefits such as the following:

- You will not need to hire extra IT staff.
- Implementation will be faster.
- Your IT department needs to be involved very little or not at all.

Lower risks – The investment made in a hosted system is minimal. You are not burdened with the hardware, operating systems, software, and IT personal if you decide to switch to another solution at some point in the future.

Development and Support

Sapphire provides in-house development and support through our 20 onsite programmers and additional 25 IT professionals. We do not rely on outsourcing for our programming needs.

Over a decade ago, one of our biggest concerns with off-the-shelf systems was timely upgrades and enhancements to meet the needs of our clientele. Early on, we discovered that with these systems, you would be placed on a development list, and upgrades would be done at the convenience of the outsourced, third-party programming company, not based on the needs of our customers. This was not acceptable or tolerable. As a result, Diamond's owners embarked on our own development project, and we now employ some of the brightest minds and skilled programmers in the correctional pharmacy industry. Our Sapphire system development team provides routine system enhancements on a 6- to 8-week sprint, with emergency requests handled on a priority basis.

Cost

Sapphire's software is provided free-of-charge when you purchase all medications from Diamond and submit all orders to Diamond using Sapphire.

We are offering this turnkey, out-of-the-box Sapphire CPOE and eMAR system at no cost, which gives you a tremendous value. Currently available correctional-specific systems can cost over $10,000 to purchase, deploy, and maintain, yet they are not as robust or dynamic as Sapphire.

Diamond provides system access, upgrades, onsite training, 24/7/365 support, and a jail management system (JMS) interface free-of-charge.

Most other systems offered in the correctional industry charge fees for system access, upgrades, training (which is usually remote through a webinar and not onsite as we provide), after-hours support, and interfacing with your current jail management system. Other solutions rely heavily on outsourced programming and third parties that charge for these services. Sapphire provides these benefits at no additional charge and without hidden costs.

Other Benefits

No software contract means you are not locked into a system

- You are not committed to a long-term contract.
- If you ever wish to change systems, Sapphire allows you to walk away.

Cooperative development, standard customizations, upgrades, and enhancements

- No additional fees for requested enhancements and software updates as detailed above
- Sapphire makes all necessary modifications and enhancements to software on a regularly scheduled 6-week sprint—based on suggestions and requests from our customers that are correctional industry specialists.

Secure internet server and 256-bit encryption of all offline med pass data

- Full compliance with HIPAA regulations
- Secure and private data submissions and storage
- Exchange of data and information secured by HTTPS protocol

Password-protected access from any web-based computer

- Users can access Sapphire from any web-based computer, whether on-site at the facility or off-site, giving full access to patient profiles, medication orders and history. This is of tremendous value to prescribers that are on call or to your medical director that may need to reference patient information while off site.

User-friendly interface

- Faster ordering of new prescriptions and stock
- Easy reordering, extending, or discontinuing all medications
- No more peel-off labels that take time to fax to the pharmacy

Real-time electronic order transmission

- Easy initiation and documentation of OTC, stock, and emergency medications
- Improved clarity over paper orders and elimination of transcribing errors
- Increased accuracy over faxed order sheets
- Time savings from the elimination of paper physician order sheets (that are traditionally faxed throughout the day by your staff who could be performing other healthcare related activities)
- Increased efficiency in the medication ordering, packaging, and delivery workflow process, allowing sooner deliveries and increased operational efficiency at your facility

Drug utilization review at the point-of-order entry

- Providers can clinically screen an order and prevent delays in initiating therapy.
- Decreased incidents of drug-drug interactions, allergic reactions, duplicate medications, and other therapeutic interactions

Viewing patient profiles before transmitting an order

- Prescribers can quickly and clearly view a patient's active and inactive medication profile before prescribing new medications.

Protocol orders containing both medication orders and patient vitals

- Prescribers can enter their own standing orders and protocols for complicated therapy medication protocols (opiate withdrawal or alcohol withdrawal) so they do not need entered each and every time. Your providers simply point and click on the protocol and the prescription is completed.

Quick reorder and refill queues

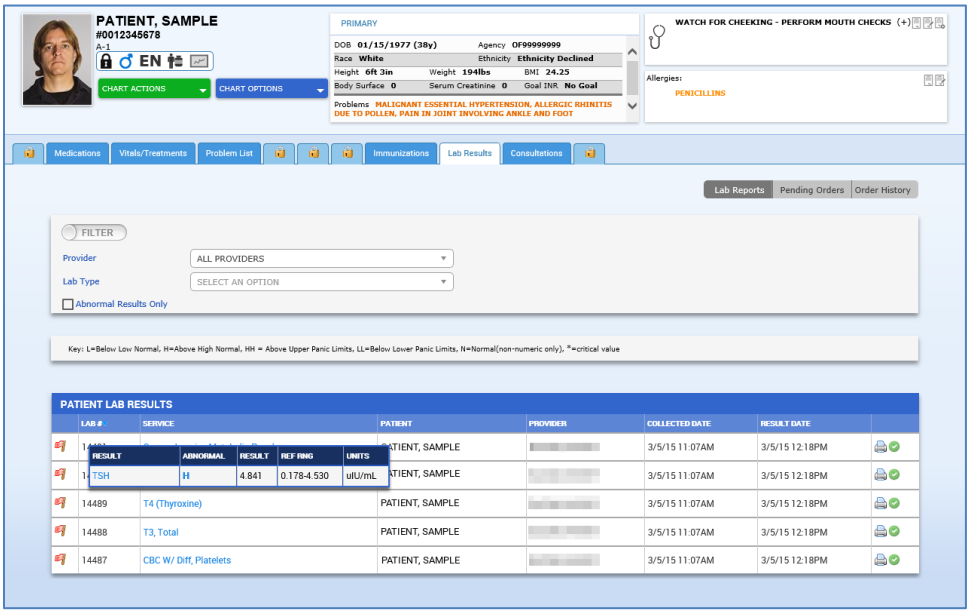
- Increased efficiency by giving users a daily snapshot of the medications that need to be rewritten or refilled soon based on actual administration recorded in Sapphire.
  - ✓ This is a valuable function, as continuity of patient care is maintained and orders that have not been renewed are not lost due to an expiration date. This is an example of a customer request that was accommodated and became reality.

Integration with EHR systems

- Sapphire currently works with several EHR companies to provide integrated systems.
- Sapphire can be used for order entry and med pass while using other medical record options in a separate EHR if you are already invested in or under contract with an EHR company.

Interface with your laboratory services provider

- Full HL7 inbound lab result support so you can import lab results from your lab company to allow results to be viewed in real time from the patients chart.
- Print fully formatted labs reports for external review.
- Force lab sign-offs by nursing and clinicians so crucial lab results are not missed.
- Abnormal Result Flagging – View abnormal lab results, which are flagged and called out for special review.



OTC requests and administration recording

- Users can quickly view, administer, and document OTC medications from a pre-approved and customizable OTC medication list directly from your med pass line while a nurse is on a unit

Maintenance of all patient-specific and stock medication inventory

- Users easily view and maintain patient specific and stock medication inventories through Sapphire and quickly refill stock medications
- Users can also set minimum, par, and maximum levels of stock medications

Documentation and review of vaccination and immunization records in Sapphire

- Logging of patient refusals on immunizations with stated reasons
- Tracking of specific medication lot numbers administered to each patient in the event of medication recalls
- CDC vaccine list – View vaccine types and manufacturers collated from CDC data source so you always have an accurate, up-to-date list of vaccines and manufacturers.
- Export a complete patient immunization history.

Non Formulary Medication Management in Sapphire

When using Sapphire, your staff knows upon order entry if a medication is non-formulary. The formulary programmed into Sapphire is updated during facility setup and with the addition or deletion of medications. If a prescriber wants to order a formulary medication, he or she simply enters the order and sends it to the pharmacy for dispensing.

The non-formulary approval/rejection process is completed electronically and is communicated on the Sapphire dashboard. Non-formulary alerts go to the prescriber's queue, so he or she can easily complete the non-formulary process online and automatically forward the request to our pharmacy along with the order. The electronic non-formulary process in Sapphire reduces incidents of non-formulary orders and offers a tremendous cost savings because your staff knows immediately if a medication is not on your approved formulary list.

Sapphire:

- Creates a faster non-formulary approval and medication distribution process
- Allows approved users to view previous and current approval log
- Eliminates the possibility of approvals becoming lost in the process

Drug Utilization Reviews in Sapphire

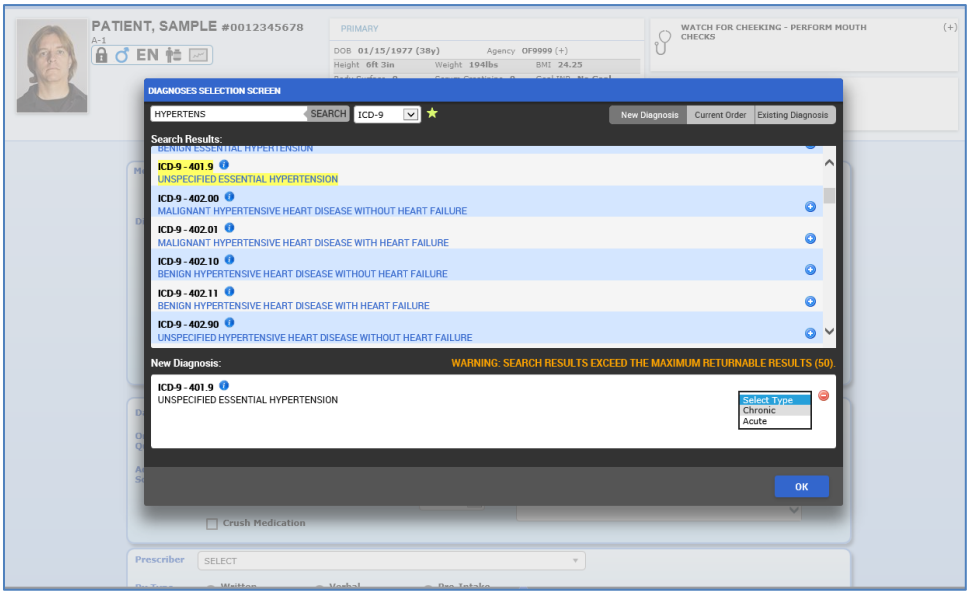
Sapphire provides a complete end-to-end clinical order screening capability at the point-of-order entry:

- Duplicate therapy screening
- Drug-to-drug contraindication screening
- Drug-to-age screening
- Drug-to-pregnancy screening
- Drug-to-lactation screening
- Drug-to-gender screening
- Max dose screening (coming soon)
- Drug utilization reviews (DURs) at the point-of-order entry

DURs will alert your providers of drug-drug, allergies, duplicate medication warnings, and therapeutic interactions which allows for provider clinical screenings and therefore prevents delays in therapy initiation.

Diagnosis Association

Sapphire provides you with either the option or the requirement to associate a diagnosis with all orders. Both ICD-9 and ICD-10 diagnoses lists are supported. Sapphire also is capable of tracking and saving un-coded problems on patient charts.

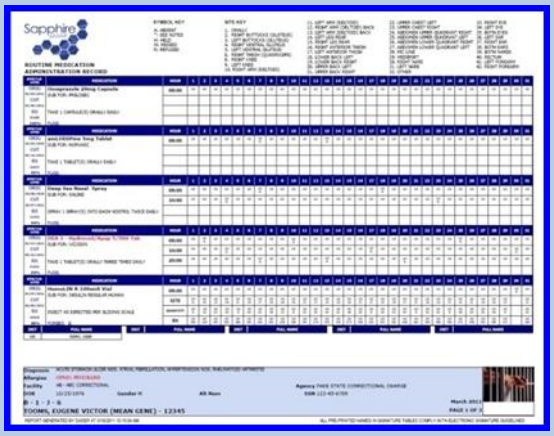


Sapphire eMAR

Sapphire is a paperless electronic medication administration record (eMAR) that enables your nursing staff to efficiently administer and track all medication administration functions. This software has extensive capabilities and is a significant upgrade from paper MARs and other systems offered in the industry.

We offer Sapphire eMAR at no charge when you purchase all medications from Diamond and transmit all orders using the Sapphire CPOE system.

Our software provides an on-screen display of all medications that are due for a selected med pass by patient, location, and medication. This functionality eliminates the need for nursing staff to search for the appropriate paper MAR in a binder and locate the proper medications or dosing schedule.



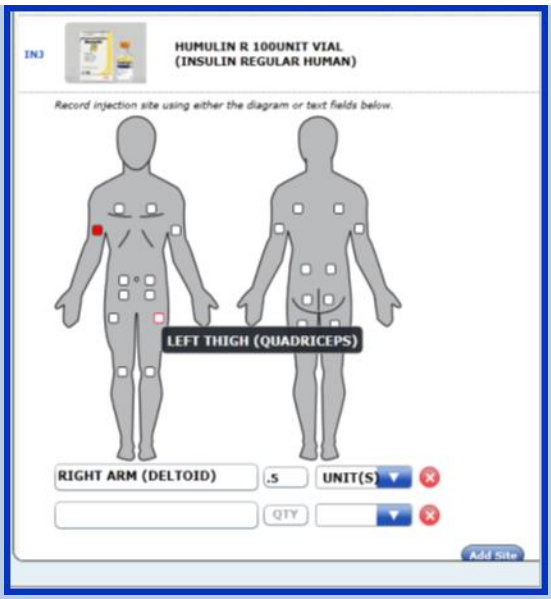
Sapphire eMAR *is a paperless electronic medication administration record that your nursing staff can use to efficiently track all medication administration functions.*

✓ Sapphire is provided free-of-charge when all medications are purchased from Diamond and all orders are submitted using the Sapphire system.

The Sapphire eMAR medication management system provides easy-to-use medication-recording features:

- The barcode on the medication and patient's wristband/badge can be scanned to provide an electronic recording of the actual medication administration date, administration time, and the nurse's initials.
- For specialty units such as a psychiatric unit housing patients without wristbands/badges, the system allows the patient's number to be entered manually.
- Keep-on-person (KOP) and as-needed (PRN) charting is available for the duration of the prescription, with custom KOP policies for your facility to keep staff informed of the medications that are KOP-eligible.
- A paper medication pass list can be printed in an easy-to-use grid format, sorted by patient and unit, and listing all medications and administration times. This list is an efficient way to inform security staff of patients who need to report to the med line for stock medications or specialty administrations.
- An electronic list of patients who missed the regularly scheduled med pass can be generated while the nurse is still in the unit, so those patients can be easily identified and called to receive their medications before the nurse leaves the area.
- Your staff can indicate the reason a medication is not administered (for example, the patient refused or dropped the medication, the patient did not show up, or the patient was at court).

- Throughout the med pass process, the system shows you the percentage completion of the med pass by entire population and individual cellblock.
- For remote med pass or in areas without Wi-Fi, staff can work offline with a laptop and synchronize later when internet access is restored.
- Sapphire archives 24 hours of previous med pass information in case of power outage or internet down time.
- Injection location is electronically charted.



*Sapphire eMAR can chart **injection locations**.*

Sapphire will quickly become an integral part of your quality assurance process. With Sapphire, you monitor compliance levels customized by your preference across any parameter or time. For example, you can examine a list of patients who missed three doses in the last month, the reasons they missed med pass, and their locations so that your nursing and clinician staff can do the proper follow up to ensure patient care.

Sapphire eMAR eliminates month-end MAR changeovers, saving you time and money.

Diamond's Sapphire eMAR medication management system will save you and your staff a significant amount of time. Our software eliminates the month-end MAR changeovers because all medication orders and changes are automatically updated throughout the month. Several of Diamond's facilities have reduced med pass time by at least 50% and have eliminated the time and associated personnel costs previously devoted to monthly MAR changeovers. With Sapphire eMAR, reviewing MARs for accuracy or arranging them in new binders at the end of every month is simply unnecessary as that manual process has been eliminated.

Sapphire is a true eMAR that allows you to conduct an electronic medication pass online in units with internet access or offline by downloading the medication pass to a laptop prior to leaving your medication room.

Many other systems allow you to electronically print paper MARs each month, or they generate stickers with new medication orders or changes that are then affixed to a paper MAR. With these other systems, your staff will still have to use and maintain a manual, time-consuming, paper medication pass. A paper MAR that is printed onsite from a computer is nonetheless a paper-driven process that is inefficient and time consuming.

Five Rights of Medication Administration

Sapphire eMAR helps your nurses comply with established nursing standards regarding the "Five Rights of Medication Administration."

- **Right patient** is achieved by scanning patient wristbands and viewing patient profile photos at the time of administration.
- **Right drug** is achieved by scanning the barcode label on each blister card.
- **Right dose** and **right route** are achieved at the point-of-order entry by using the integrated Medi-Span consultative database.
- **Right time** is controlled by Sapphire, in that only medications ordered at a specific medication pass can be displayed during that medication pass time. Administering a medication not ordered for that medication pass is not possible.

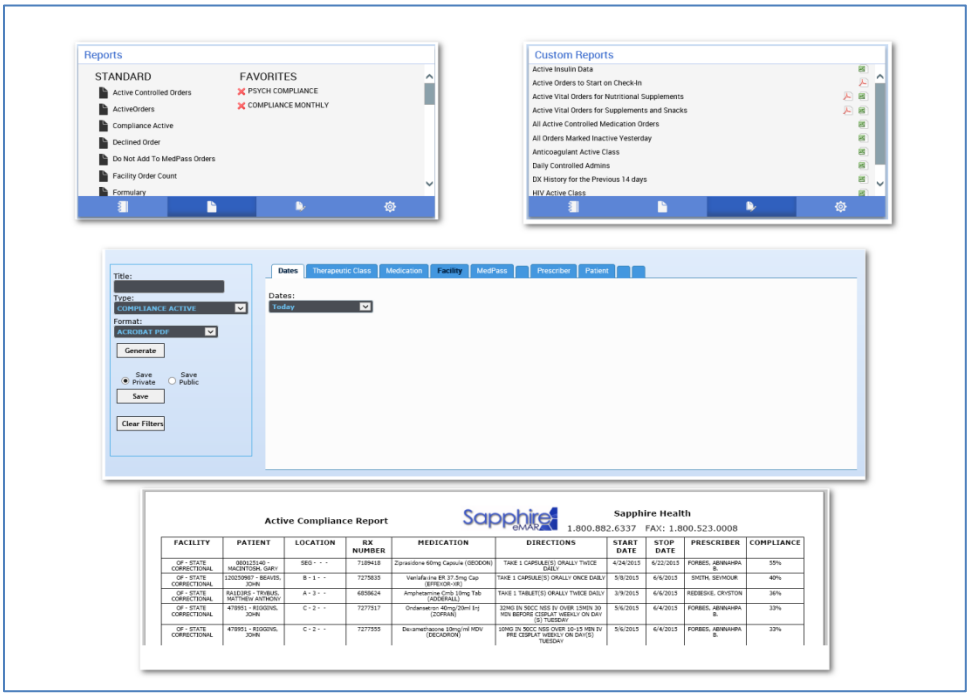
Online Reporting

Nurses, executive prescribers, administrators, and other authorized users can easily look up patient profiles and generate reports using our Sapphire web-based medication management system. On-call prescribers with an assigned user name and password can view patient histories and reports from their home or remote office without needing to speak to nurses or manually search for paper documents**.** From any web-based computer, your staff has immediate access to all dispensing information and reporting capabilities. You can search by patient, prescriber, formulary status, medication, drug class, etc. to construct a report that meets your needs.

Our reports will allow you to monitor key metrics such as medication utilization, prescriber habits, cost control, and formulary management and to generate other statistical reports to be used for projections and budgetary purposes. We can customize hundreds of reports for you and set up one-click access on your Sapphire dashboard, which you can use to generate the report.

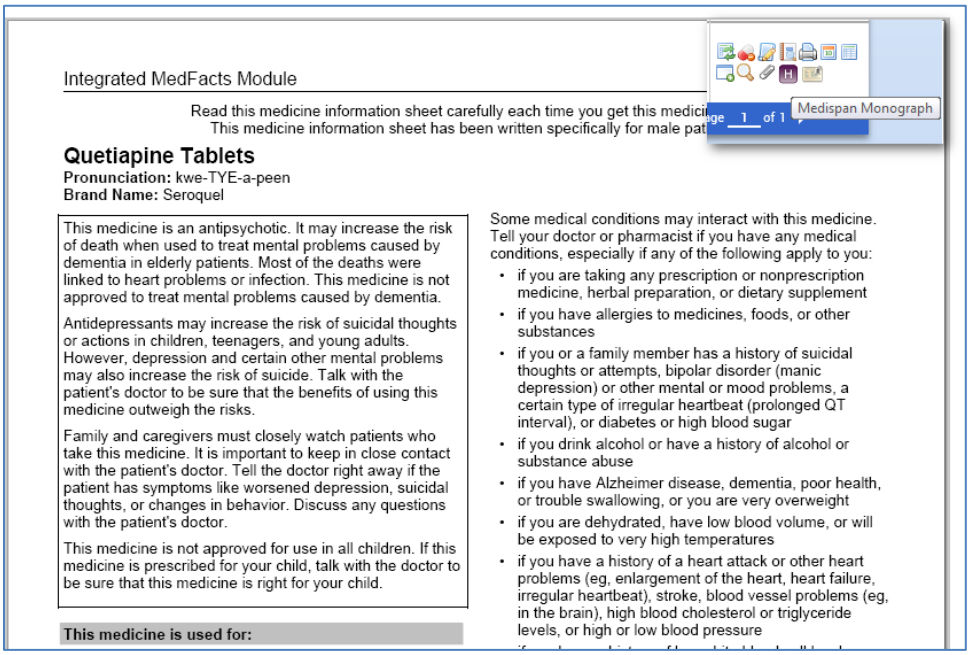
Sapphire exports the results to Microsoft Excel for you to sort data and to Adobe Acrobat for you to print reports on demand. Because Sapphire was designed internally by Diamond's IT staff, its reporting function can be customized and upgraded to specifically meet your facility's needs.

Sapphire greatly enhances your reporting capabilities by providing **on-demand** reports that are available 24/7/365 for your staff.



Patient Monographs

Patient medication monographs are available in both English and Spanish.



Electronic Delivery Reconciliation & Inventory Management

With Sapphire's electronic delivery reconciliation and inventory management module embedded in the Sapphire platform, you can proactively manage your medication orders that are shipped from Diamond. Electronically tracking and reconciling (checking in) your daily medication orders will help your staff minimize the diversion of received medications and provide your finance department with full accountability of all medications billed and received.

Our reconciliation program allows you to view your daily order as it builds throughout the day. You can see the items due to ship and, more importantly, the items that cannot be shipped. Reasons why an item might not be shipped include the refill being ordered too soon, the medication not having any remaining refills, the medication being on manufacturer's backorder, and an order needing non-formulary approval. Knowing this in advance will allow your staff to proactively manage these scenarios to avert possible delays in medication delivery and preserve your ability to maintain continuity of patient care.

Order Reconciliation

- Each day as your orders are received at Diamond through the Sapphire system, the medications move through Diamond's workflow management system until they are prepared for shipping.
- Each medication is assigned a prescription number and a unique identifier that is embedded in the barcode label.
- When a medication is processed through the final workstation at Diamond, the electronic reconciliation program will start tracking that medication.
- As your daily shipment builds at Diamond, the prescription numbers and identifiers are fed into the reconciliation program.
- Once your order is completely filled, the medications are shipped to your facilities.
- When your order arrives at your facility the next day, a staff member uses their secure user ID and password to login into Sapphire and access the reconciliation process.
- Your staff member scans each medication's barcode until the entire delivery is reconciled.
- At the end of the process, the system generates a report that lists all medications billed to your facility and notes any exceptions from your actual reconciliation at your facility.

Medication Return Process

The medication return process uses scanned barcodes and works the same as the reconciliation process.

- When you are ready to return medications for credit or disposition, your staff opens that function in Sapphire's reconciliation module.
- Your staff scans the label on each medication you are sending back to Diamond for credit or disposition.
- Our system captures the information, stores it perpetually, and provides you with an electronic

record of all items processed under that particular medication return session.

- The data can be exported to Excel, and you can print a hard copy document for your records if desired.
- Each month, we can electronically send our credit report to your facility in Excel.
- You can compare our credit report with your electronic file that lists your returned medications.

By electronically handling all medication reconciliation and returns, you have an audit trail of all medications received at the facility and a complete accountability of all medications returned for processing and disposition.

Medication Destruction in Sapphire

Sapphire's inventory management capabilities ensure that you can track medication utilization and destruction easily and efficiently with the innovative Sapphire design. This is important both operationally and financially. With Sapphire, a medication can be tracked from the point of order entry, through receipt, and to return and/or destruction.

To account for the destruction of prescription drugs (including controlled substances, when permitted by state law) and over-the-counter (OTC) medications that are not eligible to be returned for credit, you simply scan the barcode label from the packaging. A log is then generated and archived in Sapphire to give you a readily retrievable record for auditing and accounting of destroyed medications. With Sapphire, you no longer need to manually record this information, and retrieving it later for audits and inspections is now easy.

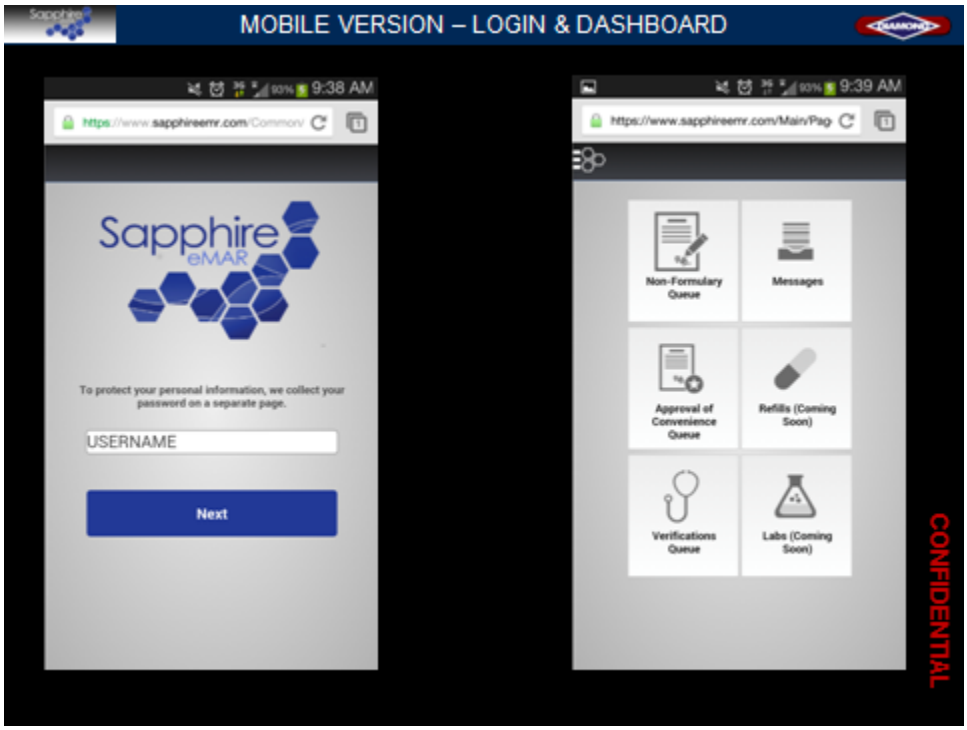
Tracking of Stock Medications in Sapphire

You can use Sapphire to electronically track the assignment of stock medication cards, so that utilization is documented and all medications are accounted for electronically. This enhancement is a direct result of our proactive approach to NCCHC patient safety standards that require the accountability of all stock medication doses.

The process begins when a stock item is received by your staff through a reconciliation scan. Stock items are then moved to a separate queue in the reconciliation module. Once that stock item is assigned to a patient or to a specific medication cart, your staff will scan that barcode, and the tracking of the card to its final destination will be recorded. As you can see, the efficiencies realized through Sapphire are numerous and are available as a single turnkey solution to meet all your needs, which are unique to the correctional pharmacy industry.

Sapphire Mobile

Sapphire provides mobile access to select application features, which offers more flexibility to the prescribers so that they have immediate information at all times even when away from a computer. Providers can review, respond to, and approve non-formulary medication orders from their smartphones. They also can review and approve orders in the co-sign or verification queues. Through this mobile app, you can read internal messages sent to your Sapphire user account.



Sapphire Training

Implementation and deployment of our software is seamless and fully supported by our Sapphire team. If you wish to implement our Sapphire computerized provider order entry (CPOE) and eMAR system for medication management, you will be introduced to an experienced Sapphire transition specialist who will oversee and customize your transition and training. Diamond has successfully implemented this training and orientation at nearly 200 facilities nationwide. Our transition specialists typically are onsite for three days, which allows them to exceed the training requirements of your staff while providing the support you need before, during, and after your go-live date.

Initial training consists of web-based training modules that are specific to each Sapphire task. Once users complete the modular training, they continue our web-based training in a simulated sandbox atmosphere. The sandbox remains available to any associate who later wants to participate in refresher training. When the modular training is complete, transition specialists visit your facility so they can be **onsite** for the transition and go-live day of the Sapphire system. Additional training is conducted onsite to ensure facility staff and power users completely understand all aspects of the system.

Sapphire Customer Support

Our 24/7/365 toll-free support line is available to help you with any concern your facility's power users cannot resolve. Throughout the day, overnight, on weekends, and on holidays, our customer service representatives are always available to address your concerns.

Sapphire Demonstration

An onsite or online (webinar) demonstration of our Sapphire system will gladly be provided to your staff during the evaluation process or prior to award, if requested. During this comprehensive demonstration, you will see firsthand how Sapphire is the most dynamic and robust CPOE and eMAR system in the correctional pharmacy industry.

Sapphire Electronic Health Record (EHR)

The expansion of Sapphire to a full EHR was a natural progression, driven by requests from correctional partners who were accustomed to Sapphire CPOE and eMAR and wanted a comprehensive product with the same intuitive and efficient design. Continuing to utilize input from medical professionals who specialize in the correctional arena, Sapphire created a full EHR that is uniquely capable of handling the specific requirements of jails and prisons.

Sapphire hinges on a custom form generator, where questions prompt answers and answers trigger tasks. Facilities can replicate data collection from paper forms they currently use, and they can use that information to streamline scheduling all necessary patient actions. In other words, we convert your current paper forms to digital images, which allows for continuity of operations. This also lowers your staff's learning curve because they are already familiar with the forms they will use electronically.

Sapphire can capture all notes, results, documentation generated from any patient encounter, and every action taken in the system is logged to ensure complete accountability. Your paper charting is now handled electronically. The result is a full EHR, created and supported with the same attention to customer needs that Diamond has provided its pharmacy customers for the past 45 years.

We offer Sapphire EHR at a negotiable price. The CPOE and eMAR components are offered at no cost when all medications are purchased from Diamond and all orders are transmitted by the CPOE module of Sapphire.

Confidential & Proprietary

This document contains sensitive, confidential, and proprietary information regarding Sapphire CPOE, Sapphire eMAR, and Sapphire EHR. SapphireHealth and its parent company, Diamond Drugs, declare that this document and the information contained herein are **not** to be shared or disclosed beyond its intended recipient. We are a privately owned family business with no obligation to provide this information publicly.

The components and functionality of our systems differ from other commercially available products. We have devoted substantial hardware, software, and personnel resources to their development. We also have made a significant financial commitment to these projects. Releasing any related information to our competitors or others in the industry would be detrimental to the continued growth potential of both Sapphire and Diamond.

Supplier: **Diamond Drugs, Inc.**

Williamson County – Request for Proposal (RFP)

SECTION 1 - DEFINITIONS

Addendum/Addenda – means any written or graphic instruments issued by the County prior to the consideration of Proposals which modify or interpret the Proposal Documents by additions, deletions, clarifications, or corrections.

Agreement/Ensuing Agreement(s) – means the Successful Respondent may be required by the County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and the Respondent's Proposal. Such Ensuing Agreement(s) shall contain the Proposal specifications, terms and conditions that are derived from the RFP.

Contract – means this RFP and the Proposal of the Successful Respondent shall become a Contract between the Successful Respondent and the County once the Successful Respondent's Proposal is properly accepted by the Williamson County Commissioners Court (sometimes referred to herein as the Commissioner's Court").

Commissioner's Court – means the Williamson County Commissioners Court.

County – means Williamson County, a political subdivision of the State of Texas.

Executive Summary – means the document submitted by Respondent that represents a concise summary of the contents of the Proposal. It does not include any information concerning costs.

Proposal Documents – means the Legal Notice, RFP including attachments, and any Addenda issued by the County prior to the consideration of any Proposals.

Proposal – means the complete, properly signed document, and ALL required forms and documentation listed in the proposal package which have been submitted in accordance with this RFP package. A Proposal submitted in accordance with this RFP is irrevocable during the specified time period for evaluation and acceptance of Proposals, unless a waiver is obtained from the Williamson County Purchasing Agent.

Respondent – means a person or entity who submits a Proposal in response to this RFP.

Request for Proposals (RFP) – means this document, together with the attachments thereto and any future Addenda issued by the County.

Successful Respondent– means the responsible Respondent who, in the County's sole opinion, submits the Proposal which is in the best interest of the County, taking into account factors identified

herein, and to whom the County intends to award the Contract.

SECTION 2 - RESPONSE FORMAT AND SUBMISSION

2.1 INTRODUCTION

Each Proposal submitted in response to this RFP should clearly reference the numbered sections of this RFP that require a response. Failure to arrange the Proposal as requested may result in the disqualification of the Proposal.

Though there is not a page limit for Proposals, to save natural resources including paper, and to allow the County staff to efficiently evaluate all submitted Proposals, the County requests that Proposals be orderly, concise, but comprehensive in providing the requested information. Conciseness and clarity of content are emphasized and encouraged. If mailed or delivered in person, please limit additional, non requested information.

Please provide your Proposal response using:

A. 8 ½" x 11" pages, inclusive of any cover letter or supporting materials.

B. The least amount of plastic/laminate or other non-recyclable binding materials.

C. Single-sided printing.

Vague and general Proposals will be considered non-responsive, and may, at the County's sole discretion, result in disqualification. Proposals must be legible and complete. Failure to provide the required information may result in the disqualification of the Proposal. All pages of the Proposal should be numbered and the Proposal should contain an organized, paginated table of contents corresponding to the sections and pages of the Proposal.

2.2 ORGANIZATION OF PROPOSAL CONTENTS AND TABLE OF CONTENTS

Each Proposal should be submitted with a table of contents that clearly identifies and denotes the location of all enclosures of the Proposal. The table of contents should follow the RFP's structure as much as is practical.

Each Proposal should be organized in the manner described below:

A. Transmittal Letter. Please see Section 2.3, Transmittal Letter, for more information.

B. Table of Contents.

C. Executive Summary. Please see Section 2.4, Executive Summary.

D. Proposal Response to Criteria. (Please see the sections in this RFP package that list the Specifications & Cost Proposal, Experience and Qualifications, References, and Implementation Strategy to respond to our criteria in a clear and concise manner)

E. Price Sheet.

F. References: Identification of three (3) references within the last four (4) years, for which the Respondent is providing, or has provided, the goods and/or services (public sector) of the type requested in this RFP. Include the name, position/title, and telephone number of a contact person at each entity.

G. Conflict of Interest Questionnaire.

H. Proposal Affidavit (Signature Page).

I. Attach your entities sample Contract, if applicable, for the County's review and consideration. This should include any additional terms or conditions. The County is not required to use the sample Contract submitted.

2.3 TRANSMITTAL LETTER

The Respondent should submit a Transmittal Letter that provides the following information:

A. Name and address of individual or business entity submitting the Proposal.

B. Respondent's type of business entity (i.e., Corporation, General Partnership, Limited Partnership, LLC, etc.). See Section 3.5, Signature of Respondent, for more information.

C. Place of incorporation or organization, if applicable.

D. Name and location of major offices and other facilities that relate to the Respondent performance under the terms of this RFP.

E. Name, physical address, email address, business and fax number of the Respondent's principal contact person regarding all contractual matters relating to this RFP.

F. The Respondent's Federal Employer Identification Number.

G. A commitment by the Respondent to provide the services required by the County;

H. A statement that the Proposal is valid for the time specified on page three (3), under the section named *Prices Good for*, of this Proposal packet. Any Proposal containing a term of less than the required amount, may at the County's sole discretion, be rejected as non-responsive.

I. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.40, Air Quality for more information.

The Transmittal Letter should be signed by a person legally authorized to bind the Respondent to the representations in the Transmittal Letter and the Proposal. In the case of a joint Proposal, each party must sign the Transmittal Letter.

2.4 EXECUTIVE SUMMARY

The Respondent should provide an Executive Summary of its Proposal that asserts that the Respondent is providing in its response all of the requirements of this RFP. The Executive Summary should not include any information concerning the cost of the Proposal, but instead must represent a full and concise summary of the contents of the Proposal. It is recommended the Executive Summary include the following information:

A. Identify any goods and/or services that are provided beyond those specifically requested. If the Respondent is providing services and/or goods that do not meet the specific requirements of this RFP, but in the opinion of the Respondent are equivalent or superior to those specifically requested, any such differences should be noted in the Executive Summary. However, the Respondent must realize that failure to provide the goods and/or services specifically required, at the County's sole discretion, may result in disqualification of the Proposal.

B. Indicate why the Respondent believes that it is the most qualified Respondent to provide the services described in this RFP. The Successful Respondent must demonstrate extensive experience and understanding of the intent of this project. The Respondent should describe in detail the current and historical experience the Respondent and its subcontractors have that would be relevant to completing the project. References must contain the name of key personnel and telephone numbers for each contact, as described in Section 3.14, References.

C. Briefly state why the Respondent believes its proposed goods and/or services best meet the County's needs and RFP requirements, and the Respondent also should concisely describe any additional features, aspects, or advantages of its goods and/or services in any relevant area not covered elsewhere in its Proposal.

2.5 CONFLICT OF INTEREST

No public official shall have interest in a contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code, Title 5, Subtitle C, Chapter 171, as amended.

As of January 1, 2006, all Respondents are responsible for complying with Local Government Code, Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County's website at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en-US/Default.aspx

Each Respondent must disclose any existing or potential conflict of interest relative to the performance of the requirements of this RFP. **Examples of potential conflicts of interest may include an existing business or personal relationship between the Respondent, its principal, or any affiliate or subcontractor with the County or any other entity or person involved in any way with the project that is subject to this RFP**. Similarly, any personal or business relationship between the Respondent, the principals, or any affiliate or subcontractor with any employee, or official of the County or its suppliers must be disclosed. Any such relationship that might be perceived or represented as a conflict must be disclosed. Failure to disclose any such relationship or reveal personal relationships with the County employees or officials may be cause for termination.

The County will decide if an actual or perceived conflict should result in Proposal disqualification.

By submitting a Proposal in response to this RFP, all Respondents affirm they have not given, nor intend to give, at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a the County public servant or any employee, official or representative of same, in connection with this procurement.

Each Respondent must provide a Conflict of Interest Statement with their Proposal Package. Package may be deemed incomplete without this form.

2.6 CERTIFICATE OF INTERESTED PARTIES – FORM 1295

As of January 1, 2016, all Respondents are responsible for complying with the Texas Government Code, Section 2252.908. The law states that the County may not enter into certain contracts with a Respondent unless the Respondent submits a disclosure of interested parties to the County at the time the Respondent submits the signed contract. The law applies only to a contract of the County on or after January 1, 2016 that either:

A. Requires an action or vote by the Commissioners Court before the contract may be signed (all contracts that fall under the jurisdiction of the Commissioners Court approval, such as contracts resulting from an Initiation for Bid (IFB), RFP, Request for Qualifications (RFQ), etc., excluding,

but not limited to, certain Juvenile Service contracts, contracts funded with Sheriff's seized fun monies, etc.); or

B. Has a value of at least $1,000,000.

By January 1, 2016, the Texas Ethics Commission will make available on its website, a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

A Respondent must:

A. Use the online application to process the required information on Form 1295.

B. Print a copy of the form which will contain a unique certification number.

C. An authorized agent of the Respondent must sign the printed copy of the form.

D. Have the form notarized.

E. File the completed Form 1295 and certification of filing (scanning and emailing form is sufficient) with Williamson County Purchasing Agent at the time the signed Contract is submitted for approval.

After the Commissioners Court award of the contract, the County shall notify the Texas Ethics Commission, using the Texas Ethics Commission's filing application, of the receipt of the filed Form 1295 and certification of filing not later than the 30th day after the date the contract binds all parties to the contract. The Texas Ethics Commission will post the completed Form 1295 to its website within seven business days after receiving notice from the County.

2.7 PROPOSAL SUBMITTAL DEADLINE

The Proposal is due no later than the submittal date and time set forth in the Public Announcement and General Information listed in this RFP package. Contents of each Proposal shall be submitted in accordance with this RFP.

2.8 ETHICS

The Respondent shall not accept or offer gifts or anything of value, nor enter into any business arrangement with any employee, official or agent of the County.

2.9 DELIVERY OF PROPOSALS

The County uses BidSync to distribute and receive bids and Proposals. It is preferred that Proposals be submitted electronically through BidSync; however, Respondents can submit a hard copy.

Refer to www.bidsync.com for further information on how to submit electronically.

If mailed or delivered in person, Proposal and Proposal Addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed in this RFP package, to:

Williamson County Purchasing Department

Attn: **Proposal Name and Number**
901 South Austin Avenue
Georgetown, Texas 78626

Also, all Respondents should list their Name and Address, and the Date of the Proposal opening on the outside of the box or envelope and note "Sealed Proposal Enclosed." Williamson County will not accept any Proposals after the submittal deadline, and shall return such Proposals unopened to the Respondent. The County will not accept any responsibility for Proposals being delivered by third party carriers.

Proposals will be opened publicly; however, in a manner to avoid public disclosure of contents, only names of Respondents will be read aloud: no pricing will be announced at the opening.

SECTION 3 - INSTRUCTIONS AND GENERAL REQUIREMENTS

3.1 INSTRUCTIONS

Read this document carefully, and follow all instructions and requirements. All Respondents are responsible for fulfilling all requirements and specifications. Be sure to have a clear understanding of this RFP.

General requirements apply to all advertised RFPs; however, these may be superseded, in whole or in part, by the proposal specifications, Addenda and modifications issued as a part of this RFP. Be sure your Proposal package is complete.

3.2 AMBIGUITY, CONFLICT, OR OTHER ERRORS IN THIS RFP

If a Respondent discovers any ambiguity, conflict, discrepancy, omission or other error in this RFP, the Respondent shall immediately notify the County Purchasing Department of such error in writing and request modification or clarification of the document.

Modifications will be made by issuing Addenda. If the Respondent fails to notify the County prior to the date and time fixed for submission of Proposals of an error or ambiguity in the RFP known to the Respondent, or an error or ambiguity that reasonably should have been known to the Respondent, then the Respondent shall be deemed to have waived the error or ambiguity or its later resolution.

The County may also modify the RFP, no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals, by issuance of an Addendum. All Addenda will be numbered consecutively, beginning with one (1).

3.3 NOTIFICATION OF MOST CURRENT ADDRESS

All Respondents in receipt of this RFP shall notify the Williamson County Purchasing Department of any address changes, contact person changes, and/or telephone number changes no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals.

3.4 SIGNATURE OF RESPONDENT

A Transmittal Letter, which shall be considered an integral part of the Proposal as stated in Section 2.3, Transmittal Letter, shall be signed by an individual who is authorized to bind the Respondent contractually.

A. If the Respondent is a Corporation or Limited Liability Company, the legal name of the Corporation or Limited Liability Company shall be provided together with the signature of the officer or officers authorized to sign on behalf of such entity.

B. If the Respondent is a General Partnership, the true name of the firm shall be provided with the signature of each partner authorized to sign.

C. If the Respondent is a Limited Partnership, the name of the Limited Partner's General Partner shall be provided with the signature of the officer authorized to sign on behalf of the General Partner.

D. If the Respondent is a Sole Proprietor(s) (individual), each Sole Proprietor(s) shall sign.

E. If signature is by an agent, other than the Sole Proprietor(s) or an officer of a Corporation, Limited

Liability Company, General Partner or a member of a General Partnership, a power of attorney equivalent document must be submitted to the Williamson County Purchasing Department.

3.5 ASSUMED BUSINESS NAME

If the Respondent operates business under an Assumed Business Name, the Respondent must have file with the Williamson County Clerk a current Assumed Name Certificate and provide a file marked copy of same prior to contract award.

3.6 ECONOMY OF PRESENTATION

Proposals should not contain promotional or display materials, except as they may directly answer in whole or in part questions contained in the RFP. Such exhibits shall be clearly marked with the applicable reference number of the question in the RFP. Proposals must address the technical requirements as specified in the RFP. All questions posed by the RFP must be answered concisely and clearly. Proposals that do not address each criterion may be, at the sole discretion of the County, rejected and not considered.

3.7 PROPOSAL OBLIGATION

The contents of the RFP, Proposal, and any clarification thereof submitted by the Successful Respondent shall become part of the contractual obligation and incorporated by reference into the Contract and any Ensuing Agreement(s).

3.8 COMPLIANCE WITH RFP SPECIFICATIONS

It is intended that this RFP describe the requirements and the Proposal format in sufficient detail to secure comparable Proposal. Failure to comply with all provisions of the RFP may, at the sole discretion of the County, result in disqualification.

3.9 EVALUATION

The County reserves the right to use all pertinent information (also learned from sources other than disclosed in the RFP process) that might affect the County's judgment as to the appropriateness of award to the best evaluated Respondent. This information may be appended to the Proposal evaluation process results. Information on a Respondent from reliable sources, and not within the Respondent Proposal, may also be noted and made part of the evaluation file. The County shall have sole discretion for determining the reliability of the source. The County reserves the right to conduct written and/or oral discussions/interviews after the Proposal opening. The purpose of such discussions/interviews is to provide clarification and/or additional information to make an award that is in the best interest of the County.

3.10 WITHDRAWAL OF PROPOSAL

The Respondent may withdraw its Proposal by submitting a written request with the company letterhead and the signature of an authorized individual, as described in Section 3.4, Signature of Respondent, to the Williamson County Purchasing Department any time prior to the submission deadline.

The Respondent may submit a new Proposal prior to the deadline. Alterations of the Proposal in any manner will not be considered if submitted after the deadline. Withdrawal of a Proposal after the deadline will be subject to written approval of the Williamson County Purchasing Agent.

3.11 RESPONSIBILITY

It is expected that a Respondent will be able to affirmatively demonstrate responsibility. A prospective Respondent should be able to meet the following requirements:

A. Have adequate financial resources, or the ability to obtain such resources as required;
B. Be able to comply with the required or proposed delivery schedule;
C. Have a satisfactory record of performance that can be determined thru references provided; and
D. Be otherwise qualified and eligible to receive an award.

The County may request representation and other information sufficient to determine the Respondent ability to meet these minimum standards listed above.

3.12 PURCHASE ORDERS

If required by the Williamson County Purchasing Department, a purchase order(s) may be generated to the Successful Respondent for goods and/or services. If a purchase order is issued, the purchase order number must appear on all itemized invoices and/or requests for payment.

3.13 SILENCE OF SPECIFICATIONS

The apparent silence of any RFP specifications as to any detail or to the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

3.14 REFERENCES

Respondents shall furnish a list of contracts where similar responsibilities and goods and/or services have been required and/or performed for the past five (5) years, to include names, titles, phone numbers and email addresses of reference contacts, contract numbers and dates of performance.

Also, Respondents shall include a list of any contracts that have been cancelled or terminated within the last five (5) years, along with an explanation of the cancellation and the names, email address and phone number of a reference person with that institution.

The County may contact some or all of the references in order to determine the Respondent performance record on work similar to that described in this RFP. The County reserves the right to contact references other than those provided in the response and to use the information gained from them in the evaluation process.

References should be provided in accordance with this RFP. Proposal may not be deemed complete without the inclusion of requested references.

SECTION 4 - TERMS AND CONDITIONS

4.1 VENUE AND GOVERNING LAW

The Respondent hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this RFP, the Contract and any Ensuing Agreement(s), shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this RFP, the Contract and any Ensuing Agreement(s) is governed by the laws of the United States, this RFP, the Contract and any Ensuing Agreement(s) shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

4.2 INCORPORATION BY REFERENCE AND PRECEDENCE

A. The Contract shall be derived from the RFP and its Addenda (if applicable), and the Respondent Proposal. In the event of a dispute under the Contract, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The RFP and its Addenda (if applicable); and

   2. The Respondent's Proposal.

B. In the event the County requires that an Ensuing Agreement be executed following award and a dispute arises between the terms and conditions of the Ensuing Agreement, the RFP and its Addenda (if applicable), and the Respondent's Proposal, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The terms and conditions of the Ensuing Agreement;

   2. The RFP and its Addenda; and

   3. The Respondent's Proposal.

4.3 OWNERSHIP OF PROPOSAL

Each Proposal shall become the property of the County upon submittal and will not be returned to Respondents unless received after the submittal deadline.

4.4 DISQUALIFICATION OF RESPONDENT

Upon signing and submittal of the Proposal, a Respondent offering to sell supplies, materials, services, or equipment to the County, certifies that the Respondent has not violated the antitrust laws of the State of Texas codified in Business & Commerce Code, Section 15.01, or the Federal Antitrust Laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged such line of business. Any or all Proposals may be rejected if the County believes that collusion exists among the Respondents.

4.5 FUNDING

The County intends to budget and make sufficient funds available and authorize funds for expenditure to finance the costs of the Contract. All Respondents understand and agree that the County's payment of

amounts under the Contract shall be contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to make payments under this Contract.

4.6 ASSIGNMENT, SUCCESSORS AND ASSIGNS

The Successful Respondent may not assign, sell, or otherwise transfer the Contract or any other rights or interests obtained under the Contract without written permission of the Williamson County the Commissioners Court. The Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the contracting parties hereto and their respective successors and permitted assigns.

4.7 IMPLIED REQUIREMENTS

Products or services not specifically described or required in the RFP, but are necessary to provide the functional capabilities described by the Respondent, shall be implied and deemed to be included in the Proposal.

4.8 TERMINATION

A. **Termination for Cause:** The County reserves the right to terminate the Contract and/or any Ensuing Agreement(s) for default if the Successful Respondent breaches any of the Proposal specifications, terms and conditions, including warranties of the Respondent, if any, or if the Successful Respondent becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies the County may have at law or equity or as may otherwise be provided hereunder. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all other requirements to the County's satisfaction, and/or to meet all other obligations and requirements.

B. **Termination for Convenience:** The County may terminate the Contract and/or any Ensuing Agreement(s) for convenience and without cause or further liability, upon no less than thirty (30) calendar days written notice to the Successful Respondent. The County reserves the right to extend this period if it is in the best interest of the County. In the event the County exercises its right to terminate without cause, it is understood and agreed that only the amounts due to the Successful Respondent for goods, commodities and/or services provided and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for the County's termination for convenience.

4.9 NON-PERFORMANCE

It is the objective of the County to obtain complete and satisfactory performance of the requirements set forth herein. In addition to any other remedies available at law, in equity or that may be set out herein, failure to perform may result in a deduction of payment equal to the amount of the goods and/or services that were not provided and/or performed to the County's satisfaction.

In the event of such non-performance, the County shall have the right, but shall not be obligated, to complete the services itself or by others and/or purchase the goods from other sources. If the County elects to acquire the goods or perform the services itself or by others, pursuant to the foregoing, the Successful Respondent shall reimburse the County, within ten (10) calendar days of demand, for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting the nonperformance which the Successful Respondent fails to meet pursuant to the requirements set out herein. In the event the Successful Respondent refuses to reimburse the County as set out in this provision, the County shall have the right to deduct such reimbursement amounts from any amounts that may be then owing or that may become owing in the future to the Successful Respondent.

4.10 PROPRIETARY INFORMATION AND THE TEXAS PUBLIC INFORMATION ACT

All material submitted to the County shall become public property and subject to the Texas Public Information Act upon receipt. If a Respondent does not desire proprietary information in the Proposal to be disclosed, each page must be clearly identified and marked proprietary at time of submittal or, more preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary. Failure to clearly identify and mark information as being proprietary as set forth under this provision will result in all unmarked information being deemed non-proprietary and available to the public. For all information that has not been clearly identified and marked as proprietary by the Respondent, the County may choose to place such information on the County's website and/or a similar public database without obtaining any type of prior consent from the Respondent.

The County will, to the extent allowed by law, endeavor to protect from public disclosure the information that has been identified and marked as proprietary. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General.

To the extent, if any, that any provision in this RFP or in the Respondent's Proposal is in conflict with Texas Government Code, Chapter 552, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood, and agreed, that the County, and its officers and employees, may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to the County as to whether or not the same are available to the public. It is further understood that that the County, and its officers and employees, shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that the County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to the County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

4.11 RIGHT TO AUDIT

The Successful Respondent agrees that the County or its duly authorized representatives shall, until the expiration of three (3) years after termination or expiration of the services to be performed, have access to and the right to examine and photocopy any and all books, documents, papers and records of the Successful Respondent, which are directly pertinent to the services to be performed or goods to delivered for the purposes of making audits, examinations, excerpts and transcriptions. The Successful Respondent agrees that the County shall have access during normal working hours to all necessary facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give the Successful Respondent reasonable advance notice of intended audits.

4.12 TESTING AND INSPECTIONS

The County reserves the right to inspect and test equipment, supplies, materials and goods for quality and compliance with this RFP, and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the County can deem the Respondent to be in breach and terminate the Contract and/or any Ensuing Agreement(s).

4.13 PROPOSAL PREPARATION COSTS

The cost of developing Proposals is the sole responsibility of the Respondents and shall not be charged to the County. There is no expressed or implied obligation for the County to reimburse the Respondents for any expense incurred in preparing a Proposal in response to this RFP and the County will not reimburse the Respondents for such expenses.

4.14 INDEMNIFICATION

The Successful Respondent shall indemnify, defend and save harmless, the County, its officials, employees, agents and agent's employees from, and against, all claims, liability, and expenses including reasonable attorneys' fees, arising from activities of the Respondent, its agents, servants or employees, performed hereunder that result from the negligent act, error, or omission of the Respondent or any of the Respondent's agents, servants or employees, as well as all claims of loss or damage to the Respondent's and the County's property, equipment, and/or supplies.

Furthermore, the County, its officials, employees, agents and agents' employees shall not be liable for damages to the Successful Respondent arising from any act of any third party, including, but not limited to, theft. The Successful Respondent further agrees to indemnify, defend and save harmless, the County from its officials, employee, agents and agents' employees against all claims of whatever nature arising from any accident, injury, or damage whatsoever, caused to any person, or the property of any person, occurring in relation to the Successful Respondent's performance of any services requested hereunder during the term of the Contract and/or any Ensuing Agreement(s).

The Successful Respondent shall timely report all claims, demands, suits, actions, proceedings, liens or judgements to the County and shall, upon the receipt of any claim, demand, suit, action, proceeding, lien or judgement, not later than the fifteenth (15th) day of each month; provide the County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of the County required by the Successful Respondent in the defense of each matter. The Successful Respondent's duty to defend, indemnify and hold the County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of the Contract and/or any Ensuing Agreement(s), unless otherwise agreed by the County in writing. The provisions of this section shall survive the termination of the Contract and shall remain in full force and effect with respect to all such matters no matter when they arise.

In the event of any dispute between the parties, as to whether a claim, demand, suit, action, proceeding, lien or judgement, that appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of the County, the Respondent shall nevertheless fully defend such claim, demand, suit or action, proceeding, lien or judgement, until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of the Respondent are not an issue in the matter.

The Successful Respondent's indemnification shall cover, and the Successful Respondent agrees to, indemnify the County, in the event the County is found to have been negligent for having selected the Successful Respondent to perform the work described in this request. The provision by the Successful Respondent of insurance shall not limit the liability of the Successful Respondent under the Contract and/or any Ensuing Agreement(s).

4.15 WAIVER OF SUBROGATION

The Successful Respondent and the Successful Respondent's insurance carrier waive any and all rights whatsoever with regard to subrogation against the County as an indirect party to any suit arising out of personal or property damages resulting from the Respondent's performance under this Contract and any Ensuing Agreement(s).

4.16 RELATIONSHIP OF THE PARTIES

The Successful Respondent shall be an independent contractor and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions herein which may appear to give the County the right to direct the Successful Respondent as to details of doing work herein covered, or to exercise a measure of control over the work, shall be deemed to mean that the Successful Respondent shall follow the desires of the County in the results of the work only. The County shall not retain or have the right to control the Successful Respondent's means, methods or

details pertaining to the Successful Respondent's performance of the work. The County and the Successful Respondent hereby agree and declare that the Successful Respondent is an independent contractor and as such meets the qualifications of an "Independent Contractor" under Texas Workers Compensation Act, Texas Labor Code, Section 406.141, that the Successful Respondent is not an employee of the County, and that the Successful Respondent and its employees, agents and subcontractors shall not be entitled to workers compensation coverage or any other type of insurance coverage held by the County.

4.17 SOLE PROVIDER

The Successful Respondent agrees and acknowledges that it shall not be considered a sole provider of the goods and/or services described herein and that the County may contract with other providers of such goods and/or services if the County deems, at its sole discretion, that multiple providers of the same goods and/or services will serve the best interest of the County.

4.18 FORCE MAJEURE

If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

4.19 SEVERABILITY

If any provision of this RFP, the Contract or any Ensuing Agreement(s) shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision thereof, but rather the entire RFP, Contract or any Ensuing Agreement (s) will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this RFP, the Contract or any Ensuing Agreement(s) is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this RFP, the Contract or any Ensuing Agreement(s) and be deemed to be validated and enforceable.

4.20 EQUAL OPPORTUNITY

Neither party shall discriminate against any employee or applicant for employment because of race, color, sex, religion or national origin.

4.21 NOTICE

Any notice to be given shall be in writing and may be distributed by personal delivery, or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

The County: Williamson County Purchasing Department
Attn: Purchasing Agent
901 South Austin Avenue
Georgetown, Texas 78626

The Respondent: Address set out in Respondent's Transmittal Letter

Notices given in accordance with this provision shall be effective upon (1) receipt by the party to which notice is given, or (2) on the third (3rd) calendar day following mailing, whichever occurs first.

4.22 SALES AND USE TAX EXEMPTION

The County is a body, corporate and politic, under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code, Section 151.309, as amended, and the services and/or goods subject hereof are being secured for use by the County.

4.23 COMPLIANCE WITH LAWS

The County and the Successful Respondent shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any Ensuing Agreement(s), including, without limitation, Workers' Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the Successful Respondent shall furnish the County with certification of compliance with said laws, statues, ordinances, rules, regulations, orders, and decrees above specified.

4.24 INCORPORATION OF EXHIBITS, APPENDICES AND ATTACHMENTS

All of the Exhibits, Appendices and Attachments referred to herein are incorporated by reference as if set forth verbatim herein. Any conflicting terms in the Contract documents will be resolved at the sole discretion of the Commissioners Court.

4.25 NO WAIVER OF IMMUNITIES

Nothing herein shall be deemed to waive, modify or amend any legal defense available at law or in equity to the County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. The County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

4.26 NO WAIVER

The failure or delay of any party to enforce at any time or any period of time any of the provisions of this RFP, the Contract or any Ensuing Agreement(s) shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

4.27 CURRENT REVENUES

The obligations of the parties under the Contract and any Ensuing Agreement(s) do not constitute a general obligation or indebtedness of the County for which the County is obligated to levy, pledge, or collect any of taxation. It is understood and agreed that the County shall have the right to terminate the Contract and any Ensuing Agreement(s) at the end of any the County fiscal year if the governing body of the County does not appropriate sufficient funds as determined by the County's budget for the fiscal year in question. The County may effect such termination by giving written notice of termination to t Successful Respondent at the end of its then-current fiscal year.

4.28 BINDING EFFECT

This Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the parties and their respective permitted assigns and successors.

4.29 ASSIGNMENT

The Successful Respondent's interest and duties hereunder may not be assigned or delegated to a third party without the express written consent of the County.

4.30 SAFETY

The Successful Respondent is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with any services to be provided hereunder. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

4.31 GENERAL OBLIGATIONS AND RELIANCE

The Successful Respondent shall perform all services and/or provide all goods, as well as those reasonably inferable and necessary for completion and provision of services and/or goods required hereunder. The Successful Respondent shall keep the County informed of the progress and quality the services. The Successful Respondent agrees and acknowledges that the County is relying on the Successful Respondent's represented expertise and ability to provide the goods and/or services described herein. The Successful Respondent agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of the County in accordance with the County's requirements and procedures. The Successful Respondent's duties, as set forth herein, shall at no time be in any way diminished by reason of any approval by the County, nor shall the Successful Respondent be released from any liability reason of such approval by the County, it being understood that the County at all times is ultimately relying upon the Successful Respondent's skill and knowledge in performing the services and providing any goods required hereunder.

4.32 CONTRACTUAL DEVELOPMENT

The Commissioners Court may award the Contract on the basis of the initial Proposals received, without any further or additional discussions. Therefore, each initial Proposal should contain the Respondent best terms and offer. The contents of the RFP and the selected Proposal will become an integral part of the Contract, but may be modified, at Williamson County's sole discretion, by provisions of an Ensuing Agreement. Therefore, the Respondent must agree to inclusion in an Ensuing Agreement of t Proposal specifications, terms and conditions of this RFP. Williamson County may, at its discretion, opt to conduct further discussions with responsible offerors and request the highest ranked firm's Best and Final Offer (BAFO).

4.33 ENTIRE AGREEMENT

The Contract and any Ensuing Agreement(s) shall supersede all prior Agreements, written or oral between the Successful Respondent and the County and shall constitute the entire Agreement and understanding between the parties with respect to the services and/or goods to be provided. Each of the provisions herein shall be binding upon the parties and may not be waived, modified, amended or altered, except by writing signed by the Successful Respondent and the County.

4.34 SURVIVABILITY

All applicable agreements that were entered into between the Successful Respondent and the County, under the terms and conditions of the Contract and/or any Ensuing Agreement(s), shall survive the expiration or termination thereof for ninety (90) days unless a new contract has been awarded.

The County may exercise, by written notice to the Successful Respondent no later than ten (10) calendar days of the Contract expiration, this clause for emergency cases only.

4.35 PAYMENT

The County's payment for goods and services shall be governed by the Texas Government Code, Chapter 2251. An invoice shall be deemed overdue the thirty-first (31st) day after the later of the following:

A. The date the County receives the goods under the Contract;
B. The date the performance of the service under the Contract is completed; or
C. The date the Williamson County Auditor receives an invoice for the goods or services.

Interest charges for any overdue payments shall be paid by the County in accordance with Texas Government Code, Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of the County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one (1) percent and the prime rate published in the Wall Street Journal on the first (1st) day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by the Successful Respondent, the County shall notify the Successful Respondent of the error not later than the twenty-first (21st) day after the date the County receives the invoice. If the error is resolved in favor of the Successful Respondent, the Successful Respondent shall be entitled to receive interest on the unpaid balance of the invoice submitted by the Successful Respondent beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, the Successful Respondent shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by the Texas Government Code, Chapter 2251, if the corrected invoice is not paid by the appropriate date.

As a minimum, invoices shall include:

A. Name, address, and telephone number of the Successful Respondent and similar information in the event the payment is to be made to a different address.

B. The County Contract, Purchase Order.

C. Identification of items or service as outlined in the Contract.

D. Quantity or quantities, applicable unit prices, total prices and total amount.

E. Any additional payment information which may be called for by the Contract.

Payment inquiries should be directed to the following address:

Williamson County Auditor's Office, Accounts Payable Department
Email: accountspayable@wilco.org
Phone: 512-943-1500

4.36 CONTRACTUAL FORMATION AND ENSUING AGREEMENT

The RFP and the Respondent's Proposal, when properly accepted by the Commissioners Court, shall constitute a Contract equally binding between the Successful Respondent and the County. The Successful Respondent may be required by Williamson County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and Respondent's Proposal.

4.37 LEGAL LIABILITY INFORMATION

The Successful Respondent shall disclose all legal liability information by listing any pending litigation anticipated litigation that your firm is involved in including, but not limited to, potential or actual legal matters with private parties and any local, state, federal or international governmental entities. The County reserves the right to consider legal liability information in the recommendation of any proposed contract to the Commissioners Court.

4.38 CONFIDENTIALITY

Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

4.39 INCLEMENT WEATHER

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a Proposal submission deadline, the Proposal closing will automatically be postponed until the next business day the County is open. If inclement weather conditions or any other unforeseen event causes delays in carrier service operations, the County may issue an Addendum to all known Respondents interested in the project to extend the deadline. It will be the responsibility of the Respondent to notify the County of their interest in the project if these conditions are impacting their ability to turn in a submission within the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

4.40 AIR QUALITY

In determining the overall best Proposal, the County may, to the extent applicable, exercise the option granted to local governments under the Texas Local Government Code, Section 271.907.

This option allows the County to evaluate Proposals and give preference to goods and/or services of Respondent that demonstrates that the Respondent meets or exceeds any and all state or federal environmental standards, including voluntary standards, relating to air quality. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. All Respondents are expected to meet all mandated state and federal air quality standards.

4.41 COOPERATIVE PURCHASING PROGRAM

During the term of the Contract resulting from this RFP, the County would like to afford the same prices, terms and conditions to other political subdivisions or public entities. Another entity's participation in the Contract resulting from this RFP is subject to a properly authorized Purchasing Cooperative Inter-local Agreement (ILA) with the County. Any liability created by purchase orders issued against the Contract shall be the sole responsibility of the governmental agency placing the order.

4.42 CONFIDENTALITY

The Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

Supplier: **Diamond Drugs, Inc.**

Proposal References

List the last three (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this RFP package, were recently provided by Respondent.

Reference 1

Client Name: **McLennan County Jail**

Location: **3201 East Highway 6, Waco TX 76705**

Contact Name: **Penny Wood**

Title: **RN, Director of Nursing**

Phone: **254-759-5685**

E-mail **penny.wood@co.mclennan.tx.us**

Contract Date To: **Present**

Contract Date From: **2011**

Contract Value: $ **$445,000 annually**

Scope of Work:

Pharmaceutical Services

Reference 2

Client Name: **Smith County Jail**

Location: **104 South Spring Street, Tyler TX 75705**

Contact Name: **Deal Folmar**

Title: **Jail Administrator**

Phone: **903-590-2804**

E-mail **dfolmar@smith-county.com**

Contract Date To: **Present**

Contract Date From: **2015**

Contract Value: $ **$125,000 annually**

Scope of Work:

Pharmaceutical Services

Reference 3

Client Name:	Location:
Maricopa County Correctional Health Srvs	**234 N. Central Avenue, Phoenix, AZ 85004**

Contact Name:	Title:
Dr. Jeffery Alvarez	**Medical Director**

Phone:	E-mail
602-876-7114	**alvarezj002@mail.maricopa.gov**

Contract Date To:	Contract Date From:	Contract Value: $
Present	**2001**	**$5,500,000 annually**

Scope of Work:

Pharmaceutical Services

Supplier: **Diamond Drugs, Inc.**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

This questionnaire is being filed in accordance with chapter 176 of the Local Government Code by a person doing business with the governmental entity.

By law this questionnaire must be filed with the records administrator of the local government not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1	**Name of person doing business with local governmental entity.**	**Diamond Drugs, Inc.**
2	☐	**Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than September 1 of the year for which an activity described in Section 176.006(a), Local Government Code, is pending and not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)
3	**Describe each affiliation or business relationship with an employee or contractor of the local governmental entity who makes recommendations to a local government officer of the local governmental entity with respect to expenditure of money.**	**n/a**
4	**Describe each affiliation or business relationship with a person who is a local government officer and who appoints or employs a local government officer of the local governmental entity that is the subject of this questionnaire.**	**n/a**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

Page 2

5	**Name of local government officer with whom filer has affiliation or business relationship. (Complete this section only if the answer to A, B, or C is YES.)** This section, item 5 including subparts A, B, C & D, must be completed for each officer with whom the filer has affiliation or other relationship. Attach additional pages to this Form CIQ as necessary. A. Is the local government officer named in this section receiving or likely to receive taxable income from the filer of the questionnaire? ☐ Yes ☑ No B. Is the filer of the questionnaire receiving or likely to receive taxable income from or at the direction of the local government officer named in this section AND the taxable income is not from the local governmental entity? ☐ Yes ☑ No C. Is the filer of this questionnaire affiliated with a corporation or other business entity that the local government officer serves as an officer or director, or holds an ownership of 10 percent or more? ☐ Yes ☑ No D. Describe each affiliation or business relationship. **6. Describe any other affiliation or business relationship that might cause conflict of interest: None**

7		**diamond645**
	Signature of person doing business with the governmental entity	Date
	Signature not required if completing in BIDSYNC electronically.	

Supplier: **Diamond Drugs, Inc.**

PROPOSAL AFFIDAVIT

This form must be completed, signed, notarized and returned with Proposal package

The undersigned certifies that the RFP and the Respondent's Proposal have been carefully reviewed and are submitted as correct and final. Respondent further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Proposal, and upon the conditions contained in the RFP.

I hereby certify that the foregoing Proposal has not been prepared in collusion with any other Respondent or other person or persons engaged in the same line of business prior to the official opening of this Proposal. Further, I certify that the Respondent is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Proposal on, or to influence any person or persons to submit a Proposal or not to submit a Proposal thereon."

Name of Respondent:	**Diamond Drugs, Inc. d/b/a Diamond Pharmacy Services**
Address of Respondent:	**645 Kolter Drive, Indiana PA 15701**
Email:	**mzilner@diamondpharmacy.com**
Telephone:	**724-349-1111**
Printed Name of Person Submitting Affidavit:	
Signature of Person Submitting Affidavit:	**Mark J. Zilner**

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Proposal will in no way have a negative impact on the County's evaluation of the Proposal.

☑	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Respondent agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared **Mark J. Zilner**(*Name of Signer*), who after being by me duly sworn, did depose and say: "I, **Mark J. Zilner**, (*Name of Signer*) am a duly authorized officer of/agent for **Diamond Drugs, Inc.**(*Name of Respondent*) and have been duly authorized to execute the foregoing on behalf of the said **Diamond Drugs, Inc.**(*Name of Respondent*).

SUBSCRIBED AND SWORN to before me by the above-named
on this the day of , 20.

Notary Public in and for

The State of

The County of **diamond645**

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

Supplier: **Diamond Drugs, Inc.**

PRICE SHEET

The undersigned Respondent, having become familiar with this RFP agrees to furnish the services and/or goods in accordance with this RFP at the following rate(s).

Please provide AWP Plus/Minus % Discount in blanks provided below and complete the 2 pages of Drug Brand/Generic price sheets with Per/Capsule-Pill pricing.

Proposer shall provide current Average Wholesale Price (AWP) minus a percentage (%) discount plus a dispensing fee (if applicable).

BRAND NAME MEDICATIONS

Minus Percent (%) Discount 22

Dispensing Fee (if applicable) 0.00

GENERIC MEDICATIONS

Minus Percent (%) Discount 95

Dispensing Fee (if applicable) 0.00

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
VALPROIC ACID 250MG CAP		**0.26**
HYDROXYZINE PAM 50MG CAP		**0.18**
BUPROPION 100MG TAB		**0.20**
LITHIUM CARB 300MG CAP		**0.12**
QUETIAPINE 100MG TAB		**0.34**
LACTULOSE 10GM/15 SOL		**0.02**
ANTI-DANDRUF 1%		**0.03**
HYDROCERIN LOT		**0.02**
GERI-MOX SUS		**0.01**
DIPHENHYDRAMINE 25MG CAP		**0.11**
SUDOGEST 60MG TAB		**0.12**
DIPHENHYDRAMINE 50MG CAP		**0.11**
AMOXICILLIN 500MG CAP		**0.16**
QUETIAPINE 300MG TAB		**0.85**
NAPROXEN 500MG TAB		**0.06**
AMITRIPTYLINE 25MG TAB		**0.30**
TRAMADOL 50MG TAB		**0.04**
METFORMIN 500MG TAB		**0.04**
HYDROXYZ PAMOATE 25MG CAP		**0.16**
POLYETH GLYC 3350 NF POW		**0.03**
QUETIAPINE 200MG TAB		**0.65**
LISINOPRIL 10MG TAB		**0.05**
VENLAFAXINE 75MG TAB		**0.11**
HCTZ 25MG TAB		**0.11**
BENZTROPINE 1MG TAB		**0.21**
METFORMIN 1000MG TAB		**0.07**
CITALOPRAM 20MG TAB		**0.13**
BENAZEPRIL 10MG TAB		**0.05**
TRAZODONE 100MG TAB		**0.16**
SMZ/TMP DS 800-160 TAB		**0.18**
POLYETH GLYC 3350 NF POW		**0.03**
BUPROPION 75MG TAB		**0.24**
TRAZODONE 50MG TAB		**0.04**
AMLODIPINE 10MG TAB		**0.12**

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
QUETIAPINE 300MG TAB		**0.85**
ATRIPLA TAB	**83.17**	
QUETIAPINE 100MG TAB		**0.34**
TRUVADA TAB	**51.20**	
LANTUS 100/ML INJ	**23.26**	
QUETIAPINE 200MG TAB		**0.65**
DULOXETINE 60MG CAP		**0.38**
REYATAZ 300MG CAP	**47.35**	
OLANZAPINE 20MG TAB		**0.80**
COMPLERA TAB	**87.49**	
OLANZAPINE 10MG TAB		**0.40**
QUETIAPINE 400MG TAB		**1.00**
LATUDA 40MG TAB	**34.73**	
BUPROPION 100MG TAB		**0.20**
DIVALPROEX 500MG ER TAB		**0.39**
ABILIFY 10MG TAB		**1.61**
VALPROIC ACID 250MG CAP		**0.26**
ISENTRESS 400MG TAB	**22.75**	
CYCLOPHOSPH 25MG TAB		**4.39**
INVEGA 9MG TAB		**16.37**
OLANZAPINE 5MG TAB		**0.25**
LATUDA 20MG TAB	**34.73**	
OLANZAPINE 15MG TAB		**0.56**
HUMULIN R U-100 U-100 INJ	**8.92**	
INVEGA 3MG TAB		**10.92**
VENTOLIN HFA AER	**2.71**	
ABILIFY 5MG TAB		**1.61**
NORVIR 100MG TAB	**8.48**	
ADVAIR DISKUS 250/50 AER	**5.76**	
PROMETHAZINE HCL 25MG SUPR		**5.17**
EPINEPHRINE 0.3MG 2-PACK		**140.84**
INVEGA 6MG TAB		**15.05**
XIFAXAN 550MG TAB	**31.73**	
PERMETHRIN 5% CRM		**0.64**
PREZISTA 800MG TAB	**47.85**	

MAO Pharmacy

Bid Contact **hunter hoggatt**
hunter.hoggatt@westwoodpharmacy.com
Ph 804-519-3383
Fax 804-288-7934

Address **5823 patterson ave**
richmond, VA 23226

Bid Notes **All requested information has been submitted via BidSync documents or included in the PDF attachment titled "Westwood Pharmacy Response to RFP 1708-185" which is attached here. Thank you for your consideration.**

Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch.	Docs
1708-185--01-01	Please attach all documents to this line	**Supplier Product Code:** RFP 1708-185	**First Offer -**	1 / each	**Y**	**Y**
				Supplier Total	$0.00	

MAO Pharmacy

Item: **Please attach all documents to this line**

Attachments

Westwood Pharmacy Response to RFP 1708-185.pdf

Certificate.pdf

WILLIAMSON COUNTY

REQUEST FOR PROPOSAL:

SEPTEMBER 18, 2017

PHARMACEUTICAL SERVICE AND SUPPLIES FOR WILLIAMSON COUNTY JAIL

SOLICITATION NO.: 1708-185

ORIGINAL

Submitted by:

Westwood Pharmacy
5823 Patterson Avenue
Richmond, VA 23226
1(866)996-6379

Transmittal Letter

Bidding Firm:	Westwood Pharmacy
Firm's Office Address:	MAO Pharmacy Inc. 5823 Patterson Avenue Richmond, VA 23226
Contact Name:	Hunter Hoggatt, Vice-President of Corrections
Contact Telephone:	(804) 288-1933 (office) (804) 519-3383 (cell)
Fax:	(804) 288-7934
Email:	hunter.hoggatt@westwoodpharmacy.com
Corporation Information:	Incorporated in Richmond, Virginia. In operation since 1966.
Federal Employer ID:	54-1857437
State Registration Number:	VA 0017919148
Business License Number:	9720-3111-1334

If awarded contract, Westwood Pharmacy will provide all services required by Williamson County in this RFP. Westwood Pharmacy understands that this proposal is valid for ninety (90) calendar days from the deadline for submittal of Proposals to Williamson County. Westwood Pharmacy's submitted proposal will have no effect of air quality for Williamson County as it is related to any state, federal or voluntary air quality standard. Additionally, please note that Westwood Pharmacy has previously filed with the Williamson County Clerk an Assumed Name Certificate and provided a file marked copy. There have been no changes to Westwood Pharmacy's assumed operating name. Additional copies of this certificate can be provided if necessary.

*J. Hunter Hoggatt*_____

Signature

Hunter Hoggatt, Vice- President of Corrections

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Price Sheet Form: pp. 24-25

eLinkRx User Guide: pp. 26-45

Sample Reports: pp. 46-68

References, Conflict of Interest Questionnaire, and Proposal Affidavit: Submitted via BidSync

Williamson County Purchasing Department
Attn: Solicitation 1708-185 PHARMACEUTICAL SERVICE AND SUPPLIES
901 S Austin Ave.
Georgetown, TX 78626

Williamson County Purchasing Department,

Over the past few years we have greatly appreciated the opportunity to provide pharmaceutical services to your facility. We are confident that our firm can continue to provide your facility with superior customer service, accessibility, and competitive pricing.

Westwood Pharmacy started over 50 years ago as a customer-oriented retail business and currently provides pharmacy services to over 140 correctional facilities in twenty states coast to coast. Westwood Pharmacy has been recognized as one of the fastest growing national providers of comprehensive pharmacy services to correctional facilities. We take pride in our ability to service several facilities comparable in size to Williamson County. Westwood bases its approach to providing pharmaceutical services on our well–established correctional pharmacy experience. We are currently the provider to facilities ranging in average daily populations of 50 to 3,000. Our company transcends the services offered by larger pharmacies because we still adhere to our small business principles that value building long lasting relationships with our clients. **We are confident that our firm can continue to provide your facility with superior customer service, competitive pricing, and state of the art technology.**

Westwood Pharmacy takes pride in being a customer service oriented pharmacy, and we look forward to the potential opportunity to continue our services to Williamson County. Westwood Pharmacy's employees will work with Williamson County to ensure clinical efficiency and unparalleled comprehensive service at the most competitive rates.

We have read, understand, and are prepared to comply with the contractual requirements stated in the RFP. Additionally, we will comply with all applicable laws in carrying out the contract. We greatly appreciate your consideration in this procurement process.

Respectfully yours,

Hunter Hoggatt, Vice President of Corrections
hunter.hoggatt@westwoodpharmacy.com
(w) 804-288-1933
(f) 804- 288-7934
(c) 804-519-3313

Executive Summary

At Westwood Pharmacy, we are excited about the opportunity to continue to provide pharmaceutical services to your facility. We are confident that we will not only meet your needs, but exceed your expectations regarding both price and service. Our competitive prices, dedicated customer service, and extensive clinical programs set us apart from our competitors. Some highlights of our services and proposal include:

Experience

- Over 50 years of experience providing pharmacy services
- Providing pharmacy services to correctional facilities in 20 states
- Providing pharmacy services to over 140 facilities across the country
- Clinical experts, including multiple Doctors of Pharmacy, with extensive experience in pharmacy services

Customer Service

- Dedicated clinical pharmacist, available 24 hours a day
- One of the highest client retention rates in the industry
- Face-to-face interactions to ensure that your facility receives all of the in-person, on-site training, consultation, and technology implementation it requires
- Tailored cost containment measures to ensure your facility reaches its maximized financial performance
- Dedicated to ensuring that each facility meets their healthcare goals and objectives, especially with regards to budget

Pricing

- Westwood Pharmacy is a member of a very exclusive, two-billion-dollar Pharmacy Group Purchasing Organization ("GPO"), and is the only correctional pharmacy provider in this GPO
- From day one, our clients tap into our network of deep discounts
- Return medication policy gives you 100% credit with no restocking fee (on all items in accordance with federal and state regulations)
- Westwood will always provide your facility with lower cost generic medications

Clinical Programs

- On-staff database experts that can generate any report required or requested
- Ability to generate reports on-site to help keep track of drug utilization
- Our Director of Clinical Services and Analytics, Dr. Edgar Gonzalez, has over thirty years of experience in clinical pharmacy, managed care, correctional managed care and drug utilization. He will be a part of P&T meetings and will work to ensure that Williamson County receives the most therapeutic and cost-effective medications available
- Design of a custom formulary specific to your facility
- Formulary management that will reduce costs

Complete Line of Medical Supplies

- We stock a complete line of medical supplies that can be delivered with your daily order as needed
- Very competitive pricing on medical supplies due to the discounts we are able to negotiate with wholesalers

Included below are biographies of the key personnel that will be assigned to the project.

Hunter Hoggatt

Vice President of Corrections

Mr. Hoggatt is responsible for all activities associated with Westwood Pharmacy's business development. He is also responsible for client support and retention. He will serve as your direct contact throughout the term of the contract. Mr. Hoggatt plays an integral role in ensuring effective company growth and establishing a satisfied client base. Mr. Hoggatt has 15 years of managerial experience in providing correctional pharmacy services to state and local government entities. With extensive experience in government relations and contracting, Mr. Hoggatt has helped guide Westwood Pharmacy to become one of the largest providers of pharmacy services to the correctional industry in the United States. Mr. Hoggatt received his BA degree with a major in business from the Virginia Commonwealth University. Additionally, he serves on the Board of Directors at J. Sargent Reynolds College.

Stephen Dowdy

Chief Financial Officer

Mr. Dowdy is responsible for the accounting and drug utilization departments of Westwood Pharmacy. Any requests for reports or billing inquiries should be directed to Mr. Dowdy, and he will ensure our staff will get your facility the information you need. He was first employed at Westwood Pharmacy in 1994 as a pharmacy technician and then served 20 years in the United States Air Force as a military planner before returning in 2014 as our Chief Financial Officer. Mr. Dowdy graduated from the Virginia Military Institute with a Bachelor of Arts in Economics and Business and received his Masters of Public Administration from Georgia College.

Shannon Dowdy Pharm.D

Vice President of Clinical Services

Dr. Dowdy is responsible for all aspects of Westwood Pharmacy's program, including operations and procedures related to formulary management, as well as serving as Vice Chair of our Pharmacy & Therapeutics Committee. Shannon supervises the National Commission on Correctional Health Care (NCCHC) and American Correctional Association (ACA) accreditation process for Westwood Pharmacy.

Dr. Dowdy has extensive experience in the clinical manifestations of HIV/AIDS and how to help manage the virus. Dr. Dowdy spent one year at Duke University working with patients who had tested Positive for HIV. One of Dr. Dowdy's roles at Duke University was to discuss the patient's antiretroviral therapy with the physician and then with the patient to be sure that they understood their drug regimen, dosing schedule, side effects and the importance of adherence to the medications. She would also schedule and clinically prepare for follow-up visits based on lab results. Dr. Dowdy oversees all inspections for Westwood Pharmacy. She strives to make sure all facilities meet DOC, NCCHC, and ACA inspections standards with regards to medical and pharmacy.

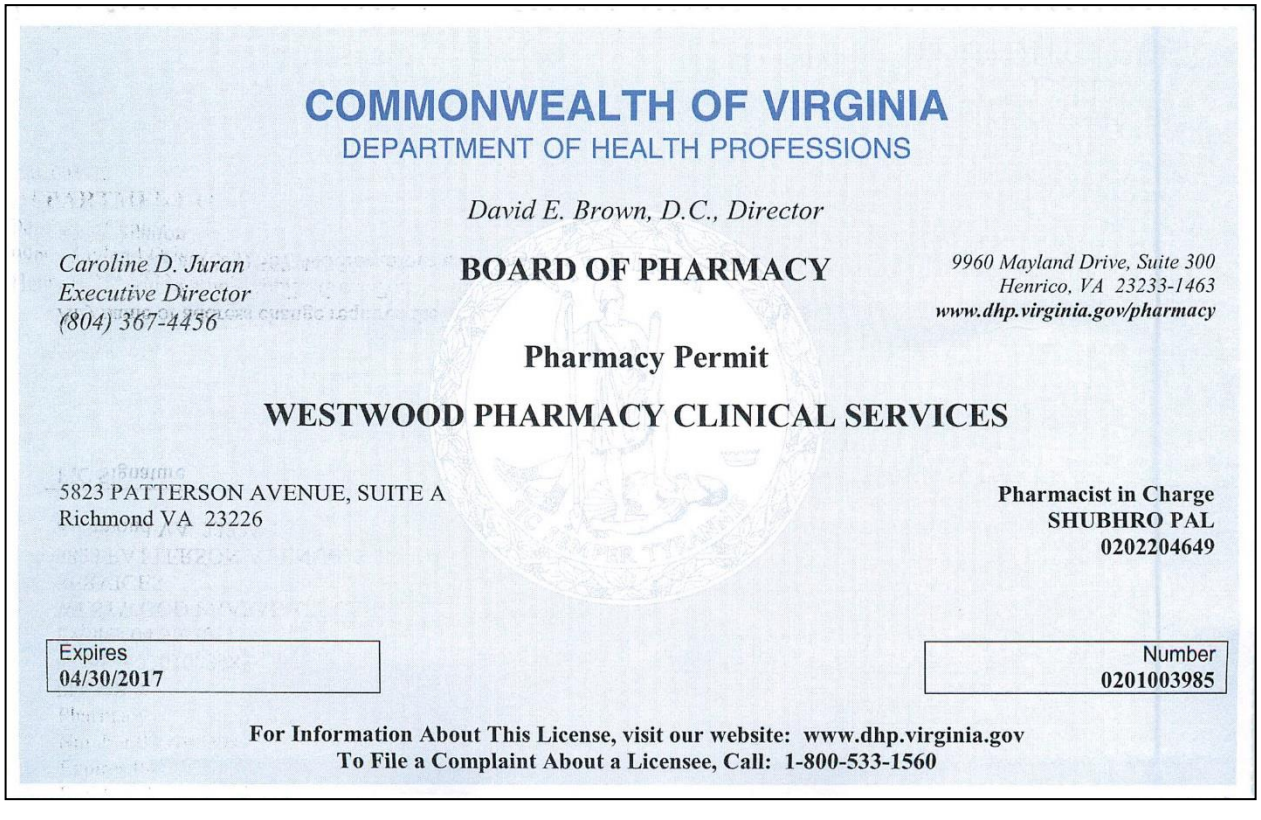
Shubhro Pal RPh

Vice President of Pharmacy Operations

Dr. Pal is responsible for overseeing day to day operations in the pharmacy, and therefore responsible for orchestrating facility startups including liaisons with state and national regulatory agencies like the State Board of Pharmacies, DEA, and many others. He is responsible for budgeting proper inventory levels to fill orders from the facilities, and is directly involved in purchasing decisions for the pharmacy to maintain financial stability.

Dr. Pal provides direct oversight in the formulation of policies and procedures, drug formulary design, production, and cost containment strategies. Additionally, he is responsible for staffing, scheduling, and performance evaluations for our pharmacy staff, including pharmacists and pharmacy technicians.

Licensure



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF HEALTH PROFESSIONS

David E. Brown, D.C., Director

Caroline D. Juran
Executive Director
(804) 367-4456

BOARD OF PHARMACY

9960 Mayland Drive, Suite 300
Henrico, VA 23233-1463
www.dhp.virginia.gov/pharmacy

Pharmacy Permit

WESTWOOD PHARMACY CLINICAL SERVICES

5823 PATTERSON AVENUE, SUITE A
Richmond VA 23226

Pharmacist in Charge
SHUBHRO PAL
0202204649

Expires
04/30/2017

Number
0201003985

For Information About This License, visit our website: www.dhp.virginia.gov
To File a Complaint About a Licensee, Call: 1-800-533-1560

TEXAS STATE BOARD OF PHARMACY

License No.
60467

Expiration Date
11/30/2018

COURTNEY EASLEY

EASLEY, COURTNEY

REGISTERED PHARMACIST

Gay Dodson, R.Ph.
Executive Director/Secretary

CERTIFICATE
OF
BOARD OF PHARMACY

This certifies that the pharmacy named below is hereby licensed to operate as a Class **E** pharmacy.

License No. **25953** Expiration Date: **03/31/2018**

Balances: **0**

WESTWOOD PHARMACY CLINICAL
5823 PATTERSON AVE
RICHMOND VA 23226

Gay Dodson, R.Ph.
Executive Director/Secretary

MUST BE DISPLAYED IN FULL PUBLIC VIEW

PROPOSAL SPECIFICATIONS

Williamson County is requesting Proposals from firms to supply Pharmaceuticals and Pharmaceutical Service/Supplies for its County Jail, whose current population is 650 inmates. Please acknowledge and/or respond to each of the specifications listed below and expound your firm's abilities to meet or exceed these requirements.

1. Proposer agrees and understands that the awarded proposer will be the principal source of supply for pharmaceuticals during the term of the contract. However, Williamson County reserves the right to purchase these products from other sources of supply in case of emergency or when the vendor is out of stock and it becomes necessary for Williamson County to support its immediate operational requirements.

Westwood Pharmacy understands that it will be the principal source of supply for pharmaceuticals during the term of the contract. We understand that Williamson County reserves the right to purchase their products from other sources of supply in case of emergency or when vendor is out of stock.

Westwood Pharmacy will be responsible for making arrangements for emergency medication in the event a delivery cannot be made as specified; emergency response will be within two hours from time of order. Emergency medications can be filled by your emergency kit onsite, or your local backup pharmacy. Westwood Pharmacy will provide a pre-arranged local backup pharmacy for your facility, as we do for all of our facilities. The chosen back-up pharmacy will be subject to approval by Williamson County. This will be in accordance with Texas State Board of Pharmacy and federal regulations.

2. All pharmaceuticals, chemicals, and drugs provided under this contract shall conform to the standards set by the Federal Food and Drug Administration and the latest editions of the US Pharmacopoeia, the National Formulary, or the American Medical Association's publication, New Drugs, where applicable, whether-or-not this is specially indicated in the specification or proposal. In cases of multi-source drug products, names of manufacturers must be listed in the current FDA of approved drug products with therapeutic equivalence evaluations publication.

All pharmaceuticals, chemicals, and drugs provided by Westwood Pharmacy under this contract shall conform to the standards set by The Federal Food and Drug Administration and the latest editions of the US Pharmacopoeia, The National Formulary, or the American Medical Association's publication, New Drugs, where applicable. In cases of multi-source drug products, names of manufacturers will be listed in the current FDA of approved drug products with therapeutic equivalence evaluations publication.

3. Supplier must hold approved New Drug Applications (NDA) or Abbreviated New Drug Application (ANDA) for all products.

Westwood Pharmacy will comply fully with the above statement.

4. Supplier must be a licensed Medicaid vendor.

Westwood Pharmacy will comply with all State and Federal regulations as they relate to the requirements of this project.

5. Supplier must be an approved pharmacy by the Texas Department of Health/HIV program.

Westwood Pharmacy will comply with the above statement.

6. All products must be packaged in a manner that will afford reasonable protection against moisture and contamination always.

Westwood Pharmacy packages all medications with anticipation and forethought of a long-distance shipping. All packages will be safely and neatly packaged to ensure your medications are undamaged and protected against moisture and contamination at all times. Each package is reviewed before shipping to ensure that they are maintained at the manufacturers recommended specifications. All medications that require refrigeration are shipped with cold packs and in Styrofoam coolers to ensure that the proper temperature is maintained.

a. **Supplier shall utilize blister packs for dispensing of medications.**

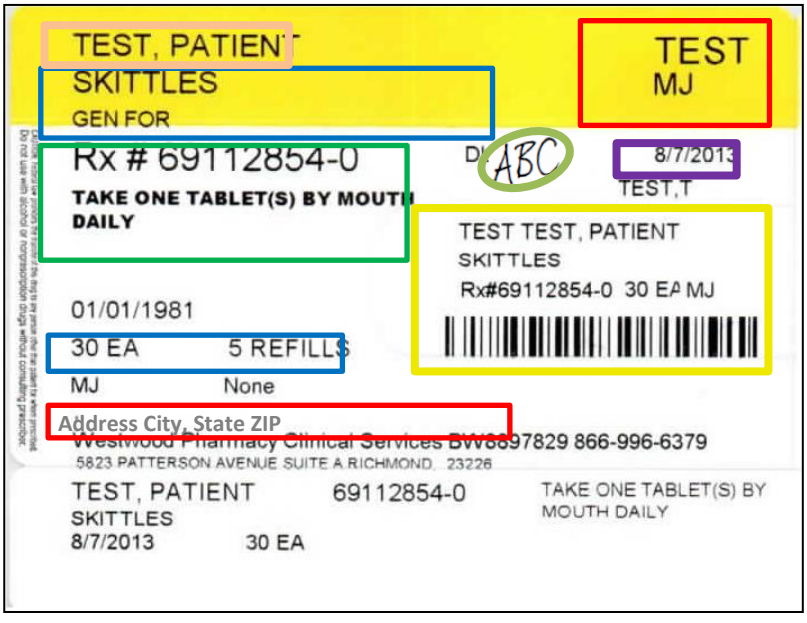
Westwood Pharmacy will package tablets and capsules individually in bubble packs. Each package will be sealed and labeled according to physician prescription instructions. The label will include inmate's name and number, prescription number, medication name, dosage form, strength, quantity dispensed, directions for use, drug warnings/cautions when applicable, doctor's name, pharmacy name and contact information, and manufacturer's name, lot number, expiration date and date filled. Prescriptions will be labeled according to the specifications of your facility and in accordance with State and Federal requirements. Each packaged medication blister pack will contain a bar code for convenient scanning, and the prescription's authorization number. The medications will contain a duplicate peel-off label to expedite refill orders by fax, if necessary. Please find an example of our label and blister pack below.

Bubble Pack Example:

b. Labels shall be affixed to the blister pack and the Medication Administration Record (MAR). Labels shall contain all the necessary information required by law as well as the inmates housing unit and date of birth. A sample of the blister pack should be included.

Labels containing all the necessary information required by law as well as the housing unit and date of birth will be affixed to each blister pack. Labels will include a two-part, peel off label that can easily be affixed to the Medication Administration Record (MAR). A sample image of the blister pack is included above and a sample image of the label is included below.

Label Example:



Area outlined in **red is the Facility name and address,** the area outlined in **peach is the patient's name**, the area outlined in **green is the directions for use and cautionary statements,** the areas outlined in **blue are the brand name and strength followed by the generic with the quantity and refills,** the product identification number can be found on the reverse of the blister card, the area outlined in **purple is the dispensing date** (expiration date is on the reverse of the card), the area circled in **green is the dispensing pharmacist's initials,** and the area outlined in **yellow is the two-part peel off label**

c. Supplier shall furnish Keep on Person (KOP) medications in approved containers and label them as such.

Westwood Pharmacy will supply Keep on Person (KOP) medications individual in approved containers and label them as such.

d. Supplier shall provide the County with a minimum four (4) medication carts for the dispensing of medications at no additional cost to the County. These carts shall be furnished with locks and keys in order to avoid unauthorized access.

Westwood Pharmacy will provide Williamson County with a minimum of four (4) medication carts for the dispensing of medications at no additional cost to the County. The carts will be furnished with locks and keys in order to avoid unauthorized access.

Westwood Pharmacy will provide a double-key stationary lock box for controlled dangerous substances. The size will be appropriate for the facility. Medication Cart maintenance will be the responsibility of Westwood Pharmacy and shall be replaced when requested by Williamson County. Wheel bearing replacement will be completed on a regular basis as needed.

e. Supplier shall have ability to provide a stock-medication type inventory.

Westwood Pharmacy will provide sealed emergency boxes for your facility filled with emergency stock supplies of prescription medications as determined jointly by Williamson County Jail and Westwood Pharmacy. The "Emergency Boxes" will be checked regularly and filled as needed to ensure the availability of emergency medical care at all times. The "Emergency Box Content Form" will be provided with the "Emergency Box", which will be filled out by medical personnel of Williamson County and communicated back to Westwood Pharmacy. This communication form will enable an accurate inventory of emergency medical supplies and identification of impending expiration dates. Emergency drugs will be provided in sealed emergency kit(s) as requested by the facility. The "Emergency Box" system is in compliance with all federal and state laws and regulations.

f. Protocols must be updated often to stay abreast of community standards.

Protocols will be updated often to stay abreast of community standards. The Pharmacy and Therapeutics Committee at Westwood Pharmacy, which constantly reassesses and updates our regulatory practices, will establish medication protocols, develop policies and procedures, identify cost containment areas and review therapeutic options. The committee will review and take corrective action on CQI audits completed by the consultant pharmacist or others. Westwood Pharmacy ensures that the most up-to-date protocols are being used to offer the highest standard of patient care.

7. Unless exceptions are made, such as for biological, all shipments of pharmaceutical products, which incur expiration dates, must have a minimum of one-year dating as of delivery.

Westwood Pharmacy pharmaceutical products, which incur expirations dates, will have a minimum of one-year dating as of delivery unless exceptions are made.

8. Items meeting the following criteria shall be exchangeable or creditable at the contracted price.

a. Trademarked items in original unopened package in accordance with the vendor's return goods policy. Vendor shall provide a copy of the return goods policy.

Trademarked items in original unopened package can be returned for credit in accordance with Westwood Pharmacy's return goods policy. That policy is included in full below.

b. Non-trademarked items in original unopened packages, in accordance with the vendor's return goods policy.

Non-trademarked items in original unopened packages can be returned for credit in accordance with Westwood Pharmacy's return goods policy. That policy is included in full below.

c. Outdated biological products returned within one year after expiration date.

Outdated biological products can be returned in accordance with Westwood Pharmacy's return goods policy. That policy is included in full below.

d. Any product that arouses questionable physical properties or therapeutic activities. The County reserves the right to return such product to the vendor for credit or immediate replacement. Return of such products shall not require prior notification to the vendor, and shall be returned at the vendor's expense.

Westwood Pharmacy will exchange for credit or immediate replacement any product that arouses questionable physical properties or therapeutic activities. Return of these products shall not require prior notification and shall be returned at the expense of Westwood Pharmacy in accordance with Westwood Pharmacy's return goods policy. That policy is included below.

Return Policy

Westwood Pharmacy, in accordance with State and Federal Law, will provide protocols for the return and credit of medication from the Williamson County Jail. Credit will be given at **100% cost of medications to your facility at no processing fee** for medications returned by Williamson County when the following criteria have been met:

- The Rx medication did not leave the control of the registered professional nurse or licensed practical nurse responsible for administration and security of the prescription drug. The prescription drug will only be administered to the individual for whom it was prescribed.

- Labeling and packaging of the prescription drug that have not been tampered with in any shape or form. This includes, but is not limited to
    - Identity
    - Strength
    - Expiration
    - Lot number

- The prescription was dispensed in unit dosage blister cards or original manufacturer's packaging.

- The prescription medication is not:
    - A controlled substance
    - Expired
    - Damaged or deteriorated
    - Contaminated or compromised by outside environment
    - Improperly stored

All returned medications will be documented by Williamson County. The medications will then be shipped to Westwood Pharmacy at our expense. Medications received will then be catalogued at our facility for documentation, accountability, and for the purpose of providing credit to be used for the next billing cycle.

Credit will be given on a monthly basis for all medications including both full and partial cards as well as for half tablets. Only medications that comply with State and Federal regulations and will not expire within 90 days will be credited.

Credits will be issued in accordance to the above regulations. Credits are offered on full and partial blister cards at 100% of the medication cost to your facility with no processing fee. No additional charges will apply for the restocking of medications. According to DEA regulations, controlled substances cannot be returned to the pharmacy provider. The controlled substances will be destroyed quarterly in accordance to State regulations.

9. The County reserves the right to submit samples of products of doubtful potency or composition to a competent independent laboratory for assay, and in such cases, the cost of such assay will be paid by the supplier if products are found to be below US Pharmacopoeia, National Formulary, or Federal Standards.

In the case that the county submits samples of products to an independent laboratory for assay and the products investigated are found to be below the US Pharmacopoeia, National Formulary, or Federal Standards, Westwood Pharmacy will endure the cost of such assay.

10. Final inspection of all products and decision of acceptance or rejection will be made by the County. Final inspection shall be conclusive except with respect to latent defects, fraud, or such gross mistakes as shall amount to fraud. Final inspection resulting in acceptance or rejection of the products will be made as soon as practicable, but failure to inspect shall not be construed as a waiver by the County to claim reimbursement or damages for such products which are later found to be in nonconformance with specifications.

Westwood Pharmacy understands the above statement and will comply with the specifications set forth by the county.

11. The County shall be billed monthly. The billing procedures shall allow for separate billing for inmates that are identified as I.N.S. or U.S. Marshall Inmates and that billing should go directly to the respective agency.

Westwood Pharmacy will bill Williamson County on a monthly basis. We will bill a separate agency for those inmates that are identified as I.N.S. or U.S. Marshall.

12. Separate itemized billing and credit invoices, on-line or computerized program for billing and credits, computerized inventory control in addition to online ordering must be provided and should be used for invoice reconciliation. In addition, the County Jail must be notified via e-mail and/or fax prior to shipment of partial orders. The e-mail or fax must list what item(s) and quantity(s) are not being shipped and when these item(s) will be available for shipment to complete the order.

Separate itemized billing and credit Invoices will be sent out monthly. In addition, all billing, credits and inventory can be accessed by using our unique technology eLinkRx. Williamson County will be notified via eLinkRx or email of any partially filled orders, Williamson County will receive the completed shipment the next day.

13. Inventory should be controlled by scanning orders for delivery and return.

All inventory sent or received by Westwood Pharmacy is controlled by a scanning device. Each packaged medication will contain a bar code for convenient scanning. The medications will contain a duplicate peel-off label to expedite refill orders. By placing your refill orders through eLinkRx, you can quickly and easily reorder by scanning the bar code on the blister card. Reordering through eLinkRx significantly reduces your nurses' time spent on this process. The blister packaging also allows for maximum credit on unused pharmaceuticals.

Westwood Pharmacy will supply a delivery summary sheet with each delivery to Williamson County. This delivery summary sheet details all of the medications included in the shipment for verification. Through eLinkRx, your facility will be able to scan in orders received with your daily shipment for reconciliation.

14. Supplier shall have the ability to generate the following reports:

i. Tracking of usage of medications by inmate, specific doctor, or specific medication
ii. Online invoicing
iii. Itemized incoming deliveries
iv. Online credits and online returns
v. Overall credit % per time period requested
vi. "Ad hoc" reports

Westwood Pharmacy's database experts on staff, will be able to generate any report requested by Williamson County's Medical Director. Westwood Pharmacy custom designs reports for all of its facilities. If a custom designed report is needed, we will ensure that the utilization staff designs a report to your facility's specifications which will include: (i.) Tracking of usage and medications by inmate, specific doctor, or specific medication, (ii.) Online invoicing, (iii.) itemized incoming

deliveries, (iv.) Online credits and online returns, (iv.) Overall credit % per time period requested and (v.) "Ad hoc" reports. We provide scheduled monthly formulary management reports and proper invoicing and printouts to facilitate full reconciliation of charges.

Westwood Pharmacy will provide the medical department and jail administration the use of our software system, eLinkRx. This technology was specifically designed for correctional healthcare. One of its key features is that it allows the medical staff the ability to generate their reports on-site. Through the use of eLinkRx Williamson County medical staff will be able to track the usage of medications by inmate, specific doctor, or specific medication.

Sample reports are included in this proposal in the section labeled "Sample Reports." The data for these reports were derived by combining patient profiles from several of our facilities. Therefore, the data is real, but not attributable to any one facility that we serve.

15. A computerized program interface linking the County Jail to the supplier must be available. Provide a detailed description of interface including any software and/or hardware that is required. If software and/or hardware are required, state whether it will be provided by the supplier or must be provided by the County.

Westwood Pharmacy has and will continue to provide Williamson County with our state-of-the-art technology, eLinkRx. We value our relationship with Williamson County and your facility will be on the front line for any upgrades to eLinkRx. All associated software and hardware will be included, free of charge.

eLinkRx has been designed exclusively for correctional healthcare. This paperless solution gives physicians the ability to transmit prescriptions electronically and send them directly to the pharmacy for processing. eLinkRx is real-time technology that grants physicians and nurses with immediate access to all patient information. It was developed to eliminate the time spent by medical staff transcribing orders to the pharmacy using order sheets and Medication Administration Records (MARs). This software greatly reduces the amount of time spent on paperwork and eliminates the occurrence of medical errors caused by misinterpretations and manual transcription of physician's orders.

Bubble packs can be scanned into eLinkRx, using the barcode on the label, once received. The same barcode can additionally be scanned to easily reorder medications. Our two-part label will allow your nurses to submit refill orders via fax if this is still the preferred method.

Advantages of eLinkRx:

Reduces or eliminates the amount of time spent:

- Transcribing physicians' orders from charts to pharmacy order sheet
- Transcribing physicians' orders from charts to Medication Administration Records (MARs)
- Faxing new orders and wait for verifications from the pharmacy
- Answering requests from pharmacy for clarification of inmate name, ID, drug name, strength, etc.
- Reviewing MARs at the end of each month, you have the ability to print them off on-site

The Physician can easily:

- Review patient medical charts
- Look up patient pharmacy history, diagnosis and allergy information
- Access current pharmacy orders
- Obtain past profiles of released inmates upon re-admission
- Access system from remote location to enable assessment of patients when not on-site
- Receive reminders when non-formulary drugs are prescribed with suggestions for an alternative on the formulary

The Nursing staff can easily:

- Enter verbal orders from physicians
- Have access to diagnosis and allergy information without pulling patient chart
- Print essential reports and MARs onsite
- Enter discontinued orders to maintain accurate MARs
- Update database on inmates that have been released or transferred

Pharmacy will:

- Receive new orders once uploaded by the physician
- Review all diagnosis and allergy information that is critical in determining proper drug therapy
- Ensure accurate inmate name and ID information
- See what non-formulary medications have been prescribed, allowing for an alternative drug on the formulary

Please find more information regarding eLinkRx in the eLinkRx User Guide included at the end of this document.

16. Supplier shall provide on-site quarterly inspections by a registered Pharmacist at no additional charge upon request by the County.

Westwood Pharmacy will provide a pharmacist to conduct quarterly inspections of the pharmacy operations and submit the written quality assurance reports to the Medical Director, Health Services Administrator and the Pharmacy and Therapeutics Committee. The consultant will ensure that the pharmaceuticals stored within the facility are within the expiration date and have not been compromised through improper storage. Medications that are found to be out of date or compromised will be removed and destroyed. These quarterly inspections will be at no additional cost to Williamson County.

The consultant pharmacist will participate in the quarterly Pharmacy and Therapeutics (P & T) Committee meetings. The pharmacist will coordinate the agendas, present reports and utilization data, and act as Secretary of the committee.

The Pharmacy and Therapies Committee will establish medication protocols, develop policies and procedures, identify cost containment areas and review therapeutic options. The committee will review and take corrective action on CQI audits completed by the Consultant Pharmacist or others.

17. Evaluation of proposals will be made to the responsive or responsible Pharmaceutical Supplier submitting the overall best proposal, with 40% of the evaluation weighted criteria on having the lowest cost consisting of the current average wholesale price (AWP) minus percent (%) discount plus a dispensing fee (if applicable). Alternative pricing models may be considered. The publication used to determine average wholesale price should be provided by each proposer. In addition, 30 % of the evaluation weighted criteria will be on meeting specification requirements, and 30 % of the evaluation weighted criteria on vendor submitted references and vendor experience working with correctional facilities.

Westwood Pharmacy acknowledges the above statement.

18. Proposers overall mark-up prices shall include cost of shipping and delivery of the pharmaceutical item to the designated delivery point and shall not include Federal or State of Texas sales, excise, and use taxes.

Westwood pharmacy's overall mark-up of prices include the cost of shipping and delivery of the pharmaceutical item to the designated delivery point and does not include Federal or State or Texas sales, excise, and use taxes.

19. Proposer shall provide three (3) price list copies plus one original with their proposal.

Westwood Pharmacy will submit this bid response electronically via BidSync.

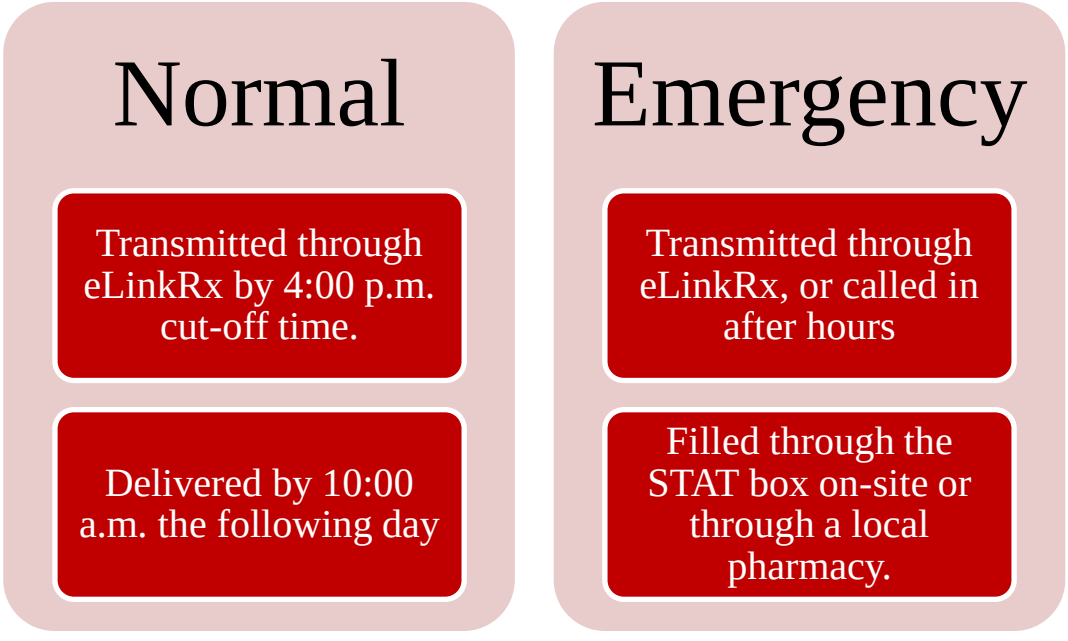
20. The preferred order method for new prescriptions and refills shall be online, however, orders placed by fax or phone shall be accepted. Additionally, emergency "stat" ordering shall be done by phone.

Westwood Pharmacy's electronic prescribing system allows your facility to electronically request and transmit prescriptions directly to the pharmacy to be processed. This includes prescriptions and over the counter medications. We also receive orders via phone and fax machine. For all emergency or "stat" ordering an on-call pharmacist will be available 24 hours a day, 7 days a week, and 365 days a year by phone.

21. Delivery of all items supplied under this contract shall be made FOB destination. The proposer shall provide next day delivery for all items ordered by 4:00 PM the previous day. Deliveries shall be made Monday through Saturday. Orders received by vendor on Saturday shall be delivered on Monday.

Westwood Pharmacy provides 24-hour service to its facilities, 7 days per week, for 52 weeks per year. New prescription and refill orders can be faxed (using two-part peel off barcode label) to Westwood Pharmacy anytime day or night or sent via our correctional specific software, **eLinkRx**. Orders received by your negotiated cut-off time (e.g. 4:00 p.m., negotiable) will be delivered by 10:00 a.m. the next day to the address specified on the purchase order. Delivery will come at no additional cost to Williamson County.

Tracking numbers for shipments will be transmitted to your facility each day before the shipment goes out. The orders will be shipped with a delivery sheet (or packing slip) identifying the contents of the delivery for verification. Through our innovative, correctional field specific software, **eLinkRx**, your facility will be able to scan in orders received with your daily shipment. All items shipped will be packaged to prevent damage during transport. Please find more information regarding shipping on the following page.



Outline of Order and Delivery:

- Orders transmitted by 4*:00 p.m. (negotiable)* on weekdays are shipped **overnight for next-day delivery** and arrive by 10:00 a.m. the next day to the specified address.
- All STAT orders are provided within the hour through STAT/Emergency kits onsite or are filled by a local backup pharmacy.
- Delivery Times are **Negotiable**.

Westwood Pharmacy will be responsible for making arrangements for emergency medication in the event a delivery cannot be made as specified and emergency response will be prompt. Emergency medications can be filled by your emergency kit onsite or your local backup pharmacy. Westwood Pharmacy will provide a pre-arranged local backup for your facility, as we do for all of our facilities. The chosen pharmacy will be subject to approval by Williamson County.

In case of emergency, your facility will call our pharmacy, and we will then call the backup pharmacy and order the medications. Emergency medication will be delivered after an order is placed, seven (7) days a week twenty-four (24) hours a day. We will bill your facility for the medications during the next billing cycle. You will be given all contact names and phone numbers for all pertinent Westwood Pharmacy staff in the event of emergency medication needs. There will be no additional cost for emergency deliveries and our price for medications will be used.

In the event the needed medication is not able to be filled through your e-kit, a local back up pharmacy will be used to fill the prescription. Prescriptions from the local pharmacy will be delivered promptly from the time order is placed. Westwood Pharmacy will provide a pre-arranged local backup for your facility, as we do for all of our facilities. The chosen pharmacy will be subject to approval by the county. This pharmacy is our guarantee of continuous, uninterrupted, access for the provision of

emergency medications. The STAT/ Emergency system will comply with all Texas State and Federal laws and regulations.

22. Supplier will be required to maintain all records for five (5) years. These records shall be the property of the county.

Westwood Pharmacy ensures Williamson County that all business and prescription records will be maintained on behalf of the Williamson County residents for five (5) years. No records shall be made available to others for any purpose other than for the provision of drugs under this agreement and for preparing statistical analysis reports. All such reports will only contain statistical data and will omit any identifiable information relating to Williamson County or any resident. These records shall be the property of Williamson County.

23. The proposer's representative must be available to respond to all calls from the using county agencies to assist in filling emergency orders, resolving complaints and problems regarding orders and deliveries and the return of goods.

Westwood Pharmacy's clinical on-call pharmacist will be available 24 hours a day, 7 days a week for all calls from Williamson county agencies and will assist in filling emergency orders, resolving complaints and problems regarding orders and deliveries and the return of goods.

24. The proposer shall provide a local telephone number or a toll-free number from Georgetown, Texas for the placement of calls against this contract and shall provide the name, title, and telephone number of a representative who can be contacted and available to provide around-the-clock, 24-hour, 7-days a week, customer service. Telephone numbers provided for this purpose shall not be serviced through an answering machine or other automatic answering device, or in any manner to impede immediate access to a representative capable of addressing emergencies and problems.

i. Name____Dr. Shubhro Pal_____

ii. Phone Number_____(804) 288-3620_____

iii. Emergency Order Phone Number_____(804) 288-1933_____

iv. Fax Number_____(804) 288-1510_____

25. All orders will be placed through the issuance of a purchase order. The purchase order number must be referenced on all invoices submitted to Williamson County.

All orders placed by Williamson County will be placed through the issuance of a purchase order. The purchase order number will be referenced on all invoices submitted to Williamson County.

26. Williamson County would prefer a vendor with substantial experience working in correctional facilities. Please provide your firm's years of experience in a correction's environment.

Westwood Pharmacy has over twenty years of experience working in the correctional pharmacy industry. We currently service more than 140 jails in twenty states coast to coast.

Westwood Pharmacy Pricing Proposal
Williamson County Jail
September 18, 2017

Pricing Model:

Westwood Pharmacy will bill Williamson County under the following Average Whole Price (AWP) minus a percentage (%) discount guidelines:

1. **Brand Name Medications**
   - **AWP minus 23% per Rx**
   - **With no dispensing fee**

2. **Generic Medications:**
   - **AWP minus 94.5% per Rx**
   - **With no dispensing fee**

   - **Credits are offered on medications for full and partial blister cards at 100% of the medication cost to your facility with no processing fee.**

   - **Westwood Pharmacy will not sell medications below cost. If this formula results in an item below cost, the item will be billed at cost.**

The above pricing includes:

- No additional charges for eLinkRx, our correctional specific software
- A registered pharmacist to conduct quarterly on-site inspections
- Medications carts for the duration of the contract on loan
- Fax machine for the duration of the contract on loan
- 24/7/365 on call support/consulting
- Monthly and ad hoc reports
- No charge for delivery
- No charge for Video Training Tools

Credit on Returns

Westwood Pharmacy, in accordance with State and Federal Law, will provide protocols for the return and credit of medication from the facility. Credit will be given at 100% cost of medications to your facility with no restocking for medications returned by the facility when the following criteria have been met:

- The Rx medication did not leave the control of the registered professional nurse or licensed practical nurse responsible for administration and security of the prescription drug. The prescription drug will only be administered to the individual for whom it was prescribed.

- Labeling and packaging of the prescription drug that have not been tampered with in any shape or form. This includes, but is not limited to
    - Identity
    - Strength
    - Expiration
    - Lot number

- The prescription was dispensed in unit dosage blister cards or original manufacturer's packaging.

- The prescription medication is not:
    - A controlled substance
    - Expired
    - Damaged or deteriorated
    - Contaminated or compromised by outside environment
    - Improperly stored
    - Refrigerated items
    - Specialty items as determined by Westwood Pharmacy

All returned medications will be documented by the facility. The medications will then be shipped to Westwood Pharmacy at our expense. Medications received will then be catalogued at our facility for documentation, accountability, and for the purpose of providing credit to be used for the next billing cycle. Credit will be given on a monthly basis for all medications including both full and partial cards as well as for half tablets. Only medications that comply with State and Federal regulations and will not expire within 90 days will be credited.

Credits will be issued in accordance to the above regulations. Credits are offered on full and partial blister cards at 100% of the medication cost to your facility with no restocking fee. No additional charges will apply for the restocking of medications. According to DEA regulations, controlled substances cannot be returned to the pharmacy provider. The controlled substances will be destroyed quarterly in accordance to State regulations. The final decision on credits will be at the discretion of the pharmacist.

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USER GUIDE

WESTWOOD PHARMACY

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Logging In:

- Every user has a unique Log-in ID
- Username will be the first letter of your first name + your last name
- Example : Betty Smith's username will be BSMITH
- Initially, your password will be set to "password". Upon entrance, your password will expire and you will have the ability to change it to what you prefer.

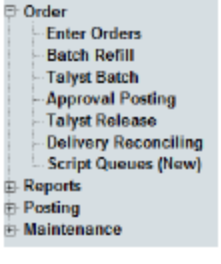
Keyboard Key Functions:

We recommended using the keys on your keyboard rather than the mouse. This will help you to avoid accidentally omitting information or skipping important fields. To help you properly navigate the software, the following key functions are provided:

Enter Key = Complete task and skip field
Tab = Skip to next field
Shift + Tab = Return to previous field
Arrow = Scroll and skip to next field
F1 = Open/Close Tree View
F2 = Search
F5 = Refresh
F7 = Return to previous screen
F8 = Exit the system
F9 = New
F10 = Edit
F11 = Change ID/password (New User)
Page Up/Page Down = Scroll by Page
Ctrl + Tab = Next
Shift + Ctrl + Tab = Previous
HOT KEYS – Any letter or number that is underlined may be selected after pressing Alt + the underlined letter/number

MAIN SCREEN:

- TREE VIEW



- **Ability to create/customize shortcuts**
  - Example: If you use "Enter Orders" frequently, click and drag to drop it into QuickView becomes a single button you can press.
  - **To Delete shortcut** – Right Click, Select Delete
- **Can also use Windows Style at the Top to Navigate**

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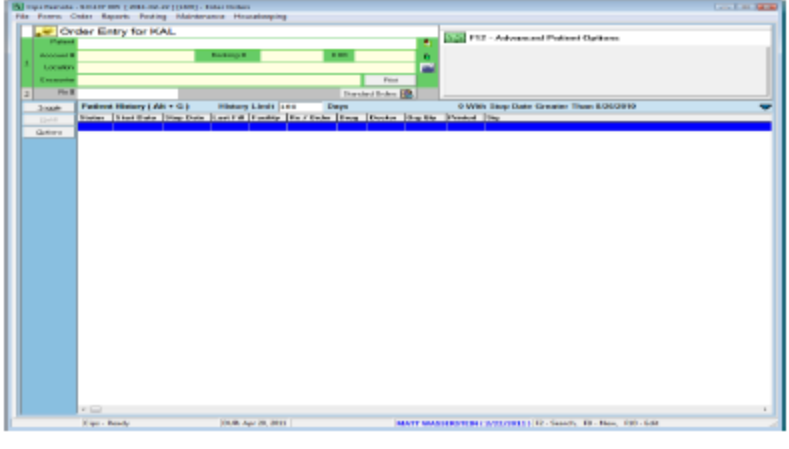
Order Entry:

1. In the left panel, double-click on the *Order* option to expand the tree. (Note: If the Tree View is not visible, press the *F1* key.)

2. Double-click on the *Enter Orders* option. This window contains patient demographic Info.



3. **Patient Demographics:** In the *Patient* field, press *Enter* to search for the patient's name. The Patient Search window will appear. (Note: You may modify the window to search by Account Number, Internal ID, Booking Number, or Medical Number.)
4. In the Patient Search window, type the first few letters of the patient's last name. Press *Enter*.
a. If there is more than one patient with the same last name, verify by comparing other identifiers such as the Account Number and/or DOB before choosing the patient.
5. After the patient has been chosen, all demographic information in the order entry window should auto-populate and the cursor should skip to the *Rx* field. You will also see the Patient History list.
6. **Rx:** In the *Rx* field, press *Enter* to begin filling a new order.

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eLinkRx User Guide

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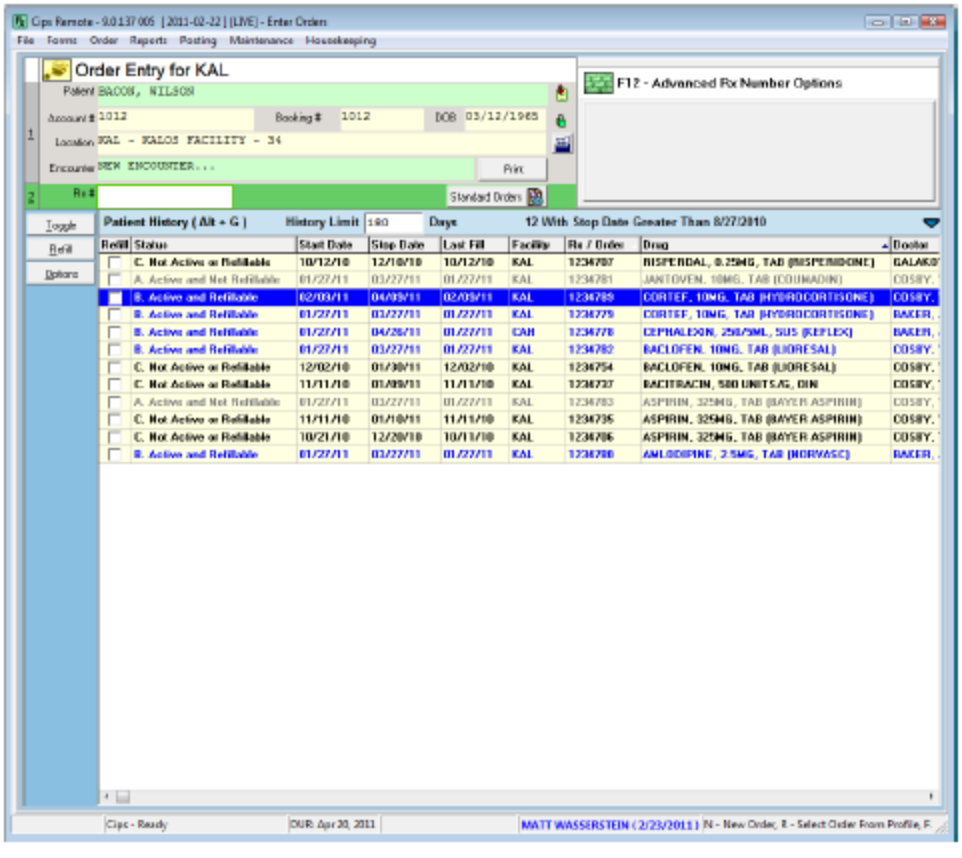

7. The cursor should now be in the *Drug* field. Press *Enter* or the *F2* key to begin a search for the correct medication.

8. In the Drug Search window, type the first few letters of the drug's name and press *Enter*. The drug list will appear.

WESTWOOD PHARMACY

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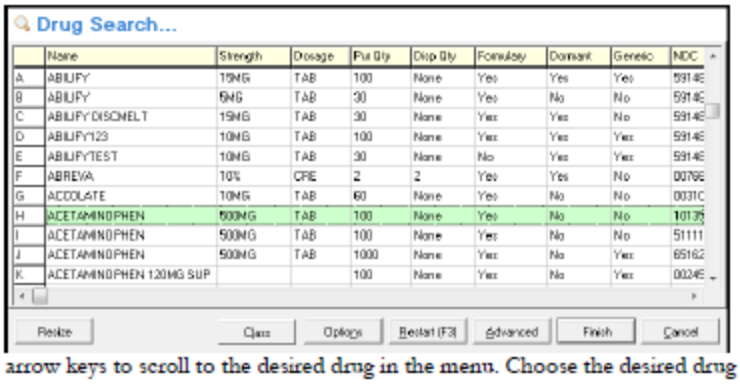
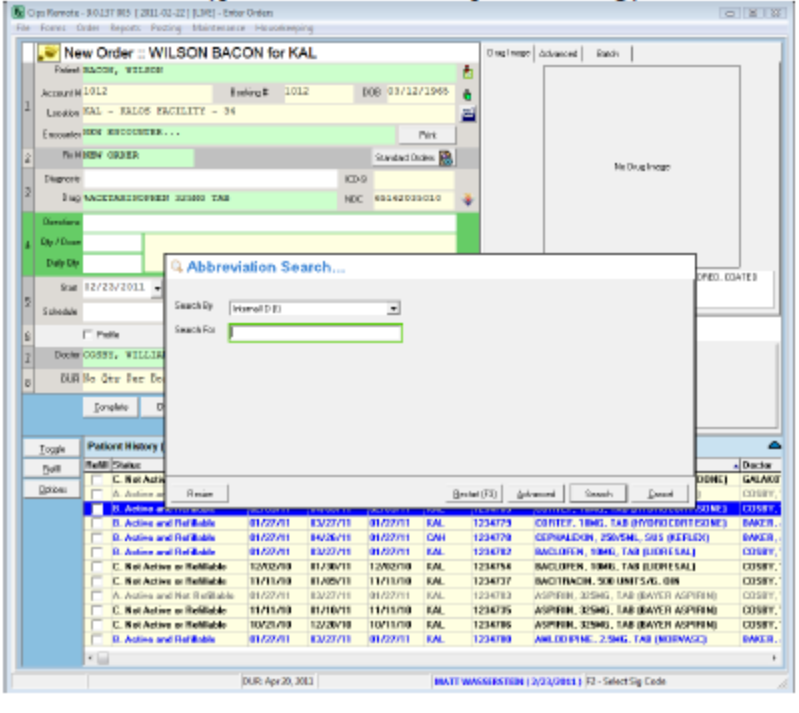


9. Use your arrow keys to scroll to the desired drug in the menu. Choose the desired drug and press *Enter*. If generic equivalents are available, choose the generic drug.
10. In the *Directions* field, press the *F2* key and then *ENTER* to search for appropriate directions as recognized by eLinkRx. (The directions are known as the "Sig.") You can also type a free-text Sig in the *Directions* field or type a short code that corresponds to the Sig you want.



11. After you have entered directions, the cursor will move to the next field; *Qty/Dose*.
12. If the Sig is recognized, the system will auto-calculate and apply the correct amount. If the amount is correct, press the *Enter* key to move on to the *Daily Qty* field.
13. Verify that the "Daily Qty" is correct and press *Enter*.

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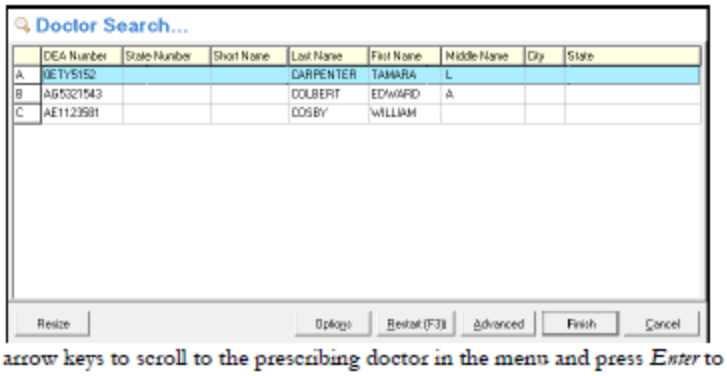
14. **"Start Date" and "Stop Date:"** If you enter the number of days being supplied, the system will automatically calculate the duration of the therapy and apply the correct dates to the calendar. You may also choose to enter a specific "Start" and "Stop" date and allows eLinkRx to calculate the "Days Supply." When you are finished, press *Enter.* This will move the cursor to the *Dispense As* drop-down field.

15. In the *Dispense As* field, use your arrow keys to choose an option and press *Enter* twice. (If you'd like to profile the med so it will be on the patient profile and not filled by the pharmacy, check the profile box in field 6.)

16. The cursor should now be in the *Doctor* field. Press the *F2* key to begin a search for the prescribing doctor's name.

17. When the search window appears, type the first few letters of the doctor's name and press *Enter.* You can also type in the first few letters of the doctor's last name from the Doctor field directly



18. Use your arrow keys to scroll to the prescribing doctor in the menu and press *Enter* to select The doctor's name.

19. The doctor name will appear in the *Doctor* field. Press *Enter.*

20. Press *Enter* again to complete the order.

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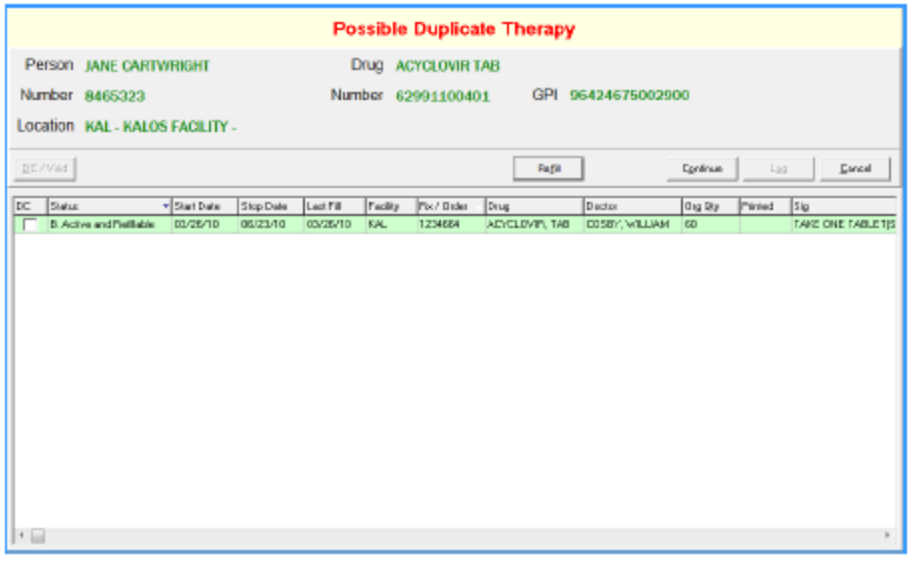
Possible Duplicate Therapy

The Possible Duplicate Therapy window will appear when the medication you are ordering has the same active ingredients as another active script. The existing script can be viewed in the window.



- You will be given the option of refilling the older script (by clicking on the *Refill* button),
  continuing with the order you are already filling, or canceling the order.

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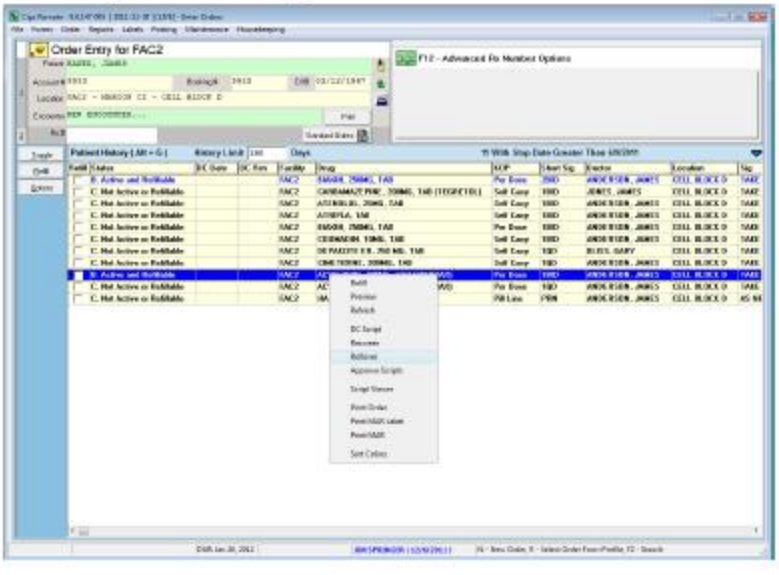
Rollover Medication Order

- The "Rollover" function is a convenient way to reorder a medication that has been used in the past but is no longer active.
- **Tree View → Order→ Enter Orders**
  - Select patient – find script you wish to roll over in Patient History list
  - Right-click on the script and select *Rollover*.



- The Rollover screen will appear and the cursor will be in the Start field. Now you can change the Start and Stop dates for the order and any other fields. Complete the process as you would for a new order.
- Do Not rollover scripts that have not expired. If you must do this, make sure you send it as profile only.

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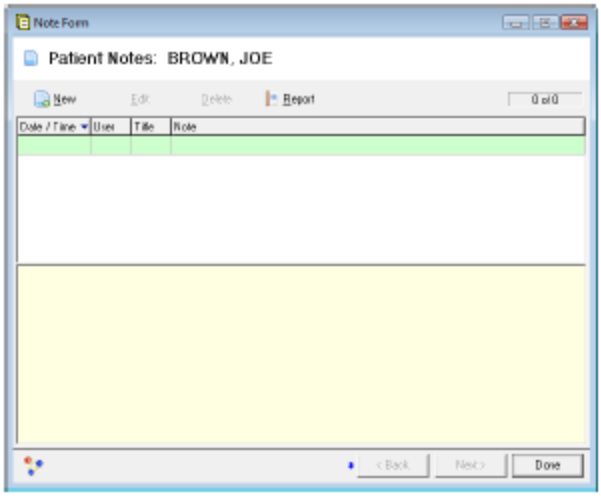
Patient Notes

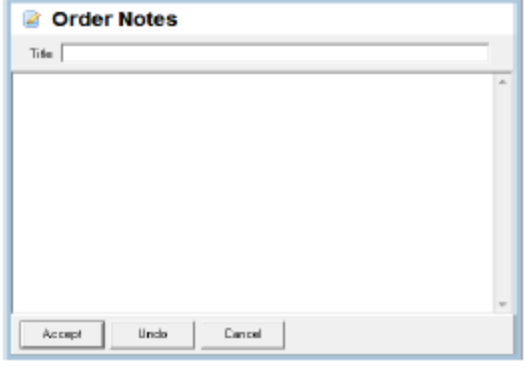
1. To post a message regarding the patient, click on the post-it icon with the thumbtack, next to the patient's name. The Note Form window will appear.



2. Click on the *New* button. When the next window appears, labeled "Note Setup," enter the title of the message and then enter a brief description in the *Text* field.
3. Click *Finish* to complete the note. Then click *Done* on the Note Form window.

Order Notes

1. To post a note regarding the order, click on the post-it icon with the thumbtack, next to the *Qty* field. The Order Notes window will appear.
2. Type the title of your note and a free-text description in the blank space below then Click Accept



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Create New Patient / Edit Patient

1. To Create a New Patient you must go to the Enter Orders Screen and press F9. If you are editing a current patient…make sure the cursor is in the patient field and press F10.
2. **Bold Fields** are Required Information
3. Must select Location tab and Fill in Facility Name.
4. Remember to select Apply when completed.
5. If you are entering an ICE patient , USMS patient, or a patient with any other third party information see the special directions on the following page.

Release Patient(s)

Releasing an Individual Patient:

1. Go to Posting→Release Patient…. then search for the Patient.
2. Once you have selected the patient provide a DC Reason, press Next, and Finish.

Releasing a Group of Patients:

1. Go to Posting→ Batch Patient Release
2. Enter your Facility Code
3. The Entire Roster will load.
4. Check the Boxes next to the patients you intend to release.
5. Select Process at the bottom Right of the screen to complete Release.

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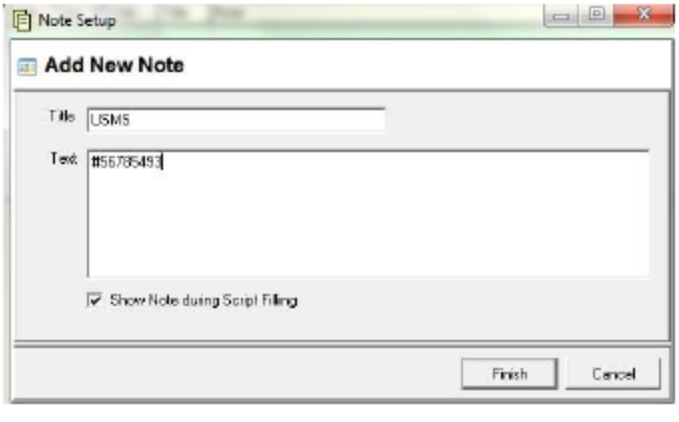
ADDING AN ICE OR US MARSHALL PATIENT

- There are 2 steps to adding an ICE or US Marshall Patient. This is important so we do not bill your facility.
- Place the number in Special Field 1 with the prefix **ICE#** or **USMS#** when adding the new patient.

- Add a patient note with the title ICE or USMS followed by the number in the Text Field



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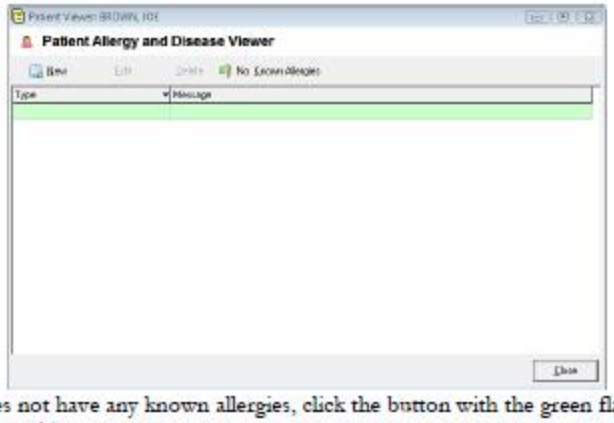
Allergies

1. An allergy alert can be entered on all patients receiving medications. To view or add an allergy alert, click on the tissue box icon next to the patient's Date of Birth. The Patient Allergy and Disease Viewer window will appear.



If a patient does not have any known allergies, click the button with the green flag called "No Known Allergies." To activate a new allergy or medical condition, click on the *New* button. Select from the applicable item menu and click *Save*.

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Refill Existing Script

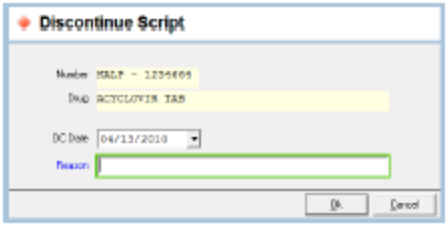
- Several ways to refill a script:
  - **If you know the Script Number**, -- Type it into the Rx # field and press *Enter*. The script information should populate on the Preview screen. The *Refill* button will be highlighted automatically. Press Enter to begin refilling the script on the Refill screen. Complete the regular filling process.
  - **If you do not know the Script Number** – then you can complete the refill process by selecting the patient and then double-clicking on the correct script in the Patient History list. After double-clicking on the script, you will be taken directly to the Refill screen. Complete the regular filling process.
  - **You can also click once on the script and then click the Refill button OR right-click on the script in the Patient History list and select Refill.**

Batch Refill Process

- Scan the scripts you want to refill OR type the script numbers into the Rx field and click Add (or press Enter)
- If the script can be refilled, it will appear in the "Ready to Refill" box.
- If the script cannot be refilled, it will appear in the "Unable to Refill "box. The reason that the script cannot be filled will be listed in the orange box at the bottom of the screen.
- When finished, Click *Process Refill*.
- Scripts that can't be filled will remain in the "Unable to Refill" box. To print a list of these scripts, click the *Print Error Report* button at the top right-hand corner of the screen. The report will be displayed and can then be printed. The Script Order Report will show only those scripts that could NOT be refilled.
- **If you want to include the scripts that were sent for refill, the report must be run before the refills are processed.**

Discontinue Medication Order

- **Order→Enter Orders→**Select Patient
- Right-click on the script and select D/C Script.
- Enter or F2 = Reason Search Window. Press Enter again for a list of Reasons.



- Click Ok in Discontinue Script Window. Status changes to "Not Active or Refillable"

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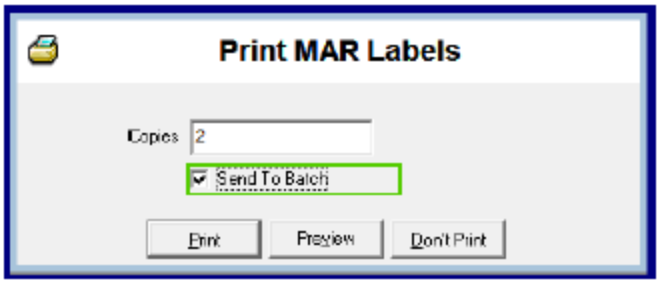
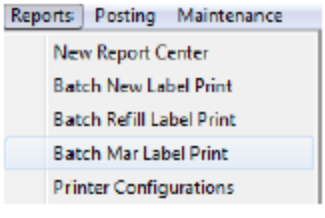
BATCH MAR LABEL PRINTING

After completing an order you have the option to print the MAR label or send it to batch.

Check the "Send to Batch" box.



To print off the labels that have been sent to the batch go to Reports→Batch MAR Label Print.



Enter your name under the User Field and then print.

DELIVERY RECONCILING

The Delivery Reconciling screen allows you to confirm a list of scripts that has been delivered to your location from the pharmacy.

1. Scan the barcode on one of the blister cards that came over in the delivery.
2. The delivery list will auto-populate
3. As you scan (or type) each script into the system, elinkRX will check for discrepancies.
4. Select the Scan Complete Option at the top right of the screen. If you are missing anything in your order, the order will remain in the Not Scanned area. Notify the pharmacy if this occurs.

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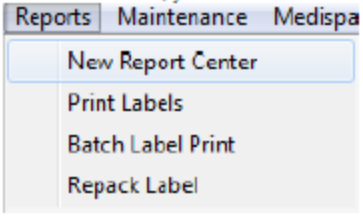
REPORTS

The reporting options available in eLINKRX offer a variety of uses. Although each report applies to a unique situation, the reports generally have the same format and can be run in similar ways. Below are instructions for general tasks involved in running reports.

Locating Reports

Reports can be found in the ***New Report Center,*** which is located under the *Reports* menu item. From this center, you can run a search to find the report you are looking for.

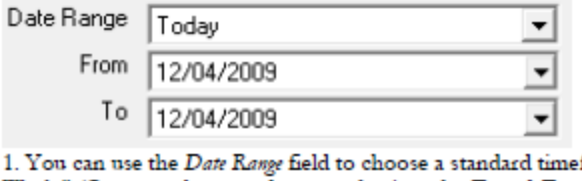


Choosing a Printer

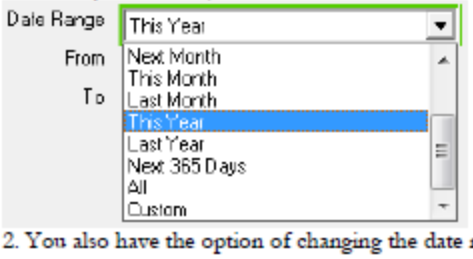
Use the drop-down in the *Printer* field to select the correct printing location.

Setting the Date Range

The scripts that are shown in many of the reports will be drawn from a particular timeframe. Use the *Date Range* fields to select the time period that will be included.



1. You can use the *Date Range* field to choose a standard timeframe such as "Today" or "Last Week." (Once you have made your selection, the *To* and *From* fields will automatically change to match your choice.)



2. You also have the option of changing the date range by adjusting the *From* and *To* fields. By doing this, you can choose a specific timeframe. Once these fields have been set, the *Date Range* field will read, "Custom."

Saving and Loading Forms

For reports that will be run many times with similar information, you may want to save your report settings for future use. Then you will be able to load your report settings to run the report again at a later date. To do this, follow the instructions below

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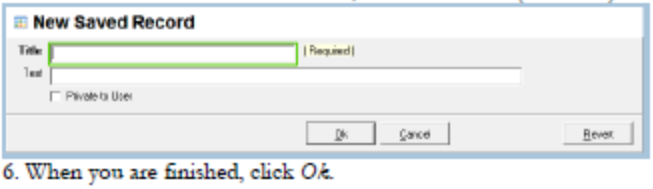
Saving a Form

1. Create your report settings.
2. Click *Preview* to ensure that everything is displaying correctly. Click on the *Close* button to close the preview.
3. Click the *Save Form* button.
4. The Save Data Form window will open. Click *New*.
5. In the New Saved Record window, enter a title and (if desired) a short description.



6. When you are finished, click *Ok*.

Loading a Form

1. After opening the report screen, click on the *Load Form* button. The Load Data Form window will open.
2. Find the title of the report form that you saved to reuse.
3. Double-click on the correct option.
4. The report information will fill the correct fields throughout the screen.

Pressing *Reset* will remove all of the report information and return the report to its default settings.

Printing/Exporting Reports

1. Before printing a report, you can click the *Preview* button to view a copy of the report. When you have finished viewing the report preview, close the preview screen. Click *Print* to print a hard copy of the report.
2. Some reports can be exported to a specific location. To export a report file rather than simply printing a hard copy, you can select the correct location in the *Export File* field. When you have finished creating your report, click the *Export* button.

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ABBREVIATION REPORT

The Abbreviation Report lists the preset short codes that can be used to create Sigs in the filling screen. These directions instruct patients on how medication should be taken. Short codes can be used to quickly and easily generate common Sigs. The Abbreviation Report allows you to view each of these Sigs along with their designated short codes.

MAR REPORT

Print MARS for patients or entire facility over the date range selected. More info. available on following pages.

FACILITY REPORT

Print your barcode for delivery reconciling scanning. See **Delivery Reconciling** (p. 14)

ORDER LISTING

View the Orders placed and their status over the date range selected.

PATIENT PROFILE

The Patient Profile Report is a detailed report providing the Script Number, Patient Name, Sig, Facility, Rx Original Date, Rx Expiration Date, Doctor, Drug, Last Fill, Quantity Dispensed, and Last
Fill Date for whatever date range you specify. The report can give this information for all patients or for a specific patient only.

REFILL DUE REPORT

The Refill Due Report shows the number of scripts that will be due for refill within the number of days you enter.

SCRIPT EXPIRATION REPORT

The Script Expiration Report shows a list of scripts that have expired or will expire within a selected time period.

SCRIPT REPORT

The Script Report allows you to produce reports for particular types of scripts. You can specify what type of scripts are to be included in your report. The range of options available allows you to produce reports that are general in nature or more specific.

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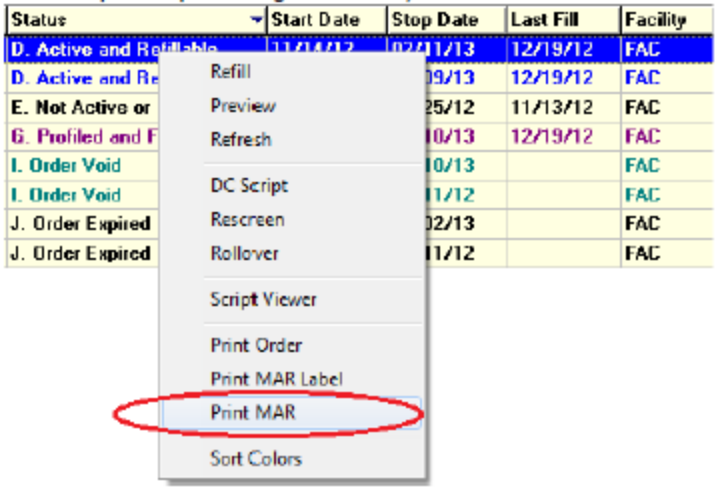
MAR REPORT

- You can print MARS for an individual patient, a group of patients, or for all patients

PRINTING MARS ... for an INDIVIDUAL PATIENT

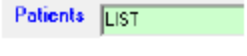
- Go to the patients profile→right click on any medication.

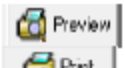


... for an INDIVIDUAL PATIENT or GROUP OF PATIENTS

- Option 2- Go to the Report Center→MAR Report
  1. Select the Date Range of the MAR
  2. Type in the first few letters of the patients' last name in the Patients Field.

  3. Patient Search Box – Select the patient. Press Enter or Select Finish.
  4. Patient Batch Search Box – If you would like to add another patient. Select Add. If you are done, Select Close.
  5. After adding group of patients it will appear in the Patients field as List.



  6. 

  7.

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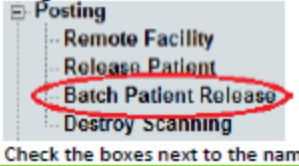
PRINTING MARS

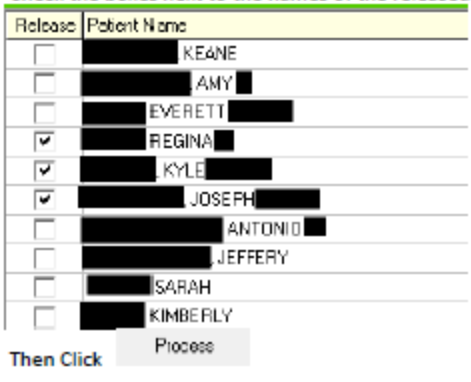
… for NEXT MONTH / ENTIRE FACILITY

STEP 1 – RELEASE PATIENTS

1. Make sure you have released all of the patients that need to be released.
2. To do this, go to POSTING → BATCH PATIENT RELEASE



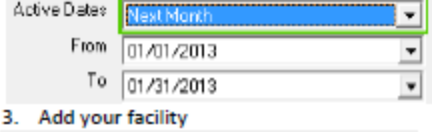
- Check the boxes next to the names of the released patients.



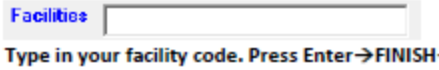
- Then Click Process

Step 2 – PRINT MARS

1. Go to your **MAR REPORT** in the **NEW REPORT CENTER**
2. Change the ACTIVE DATES TO **NEXT MONTH**



3. Add your facility



Type in your facility code. Press Enter→FINISH→CLOSE

MAKE SURE TO PREVIEW BEFORE YOU PRINT !

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Report Samples

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WESTWOOD
6/8/2015

Drug Utilization by Physician
Fill Date(s) 1/1/2014 - 12/31/2014

Page 1
12:15 pm

Patient	Pat #	Drug	Doctor	DEA	Rx #	Fill Date	Fills	Fil %	Dsp Qty
WESTWOOD - Pharmacy									
TEST FACILITY - Facility									
TEST, TEST - Doctor									
CALPONE, AL		PENICILLIN VK 500MG TAB	TEST, TEST		69358280	08/22/14	1	3.57	40
CALPONE, AL		QUETIAPINE 100MG TAB	TEST, TEST		69358284	08/22/14	1	3.57	30
CALPONE, AL		PAROXETINE 20MG TAB	TEST, TEST		69358286	08/22/14	1	3.57	30
CALPONE, AL		QUETIAPINE 200MG TAB	TEST, TEST		69358287	08/22/14	1	3.57	30
DILLINGER, JOHN	88888	OLANZAPINE 15MG TAB	TEST, TEST		69358260	08/22/14	1	3.57	30
DILLINGER, JOHN	88888	ZIPRASIDONE 20MG CAP	TEST, TEST		69358261	08/22/14	1	3.57	30
DILLINGER, JOHN	88888	ESCITALOPRAM 10MG TAB	TEST, TEST		69358258	08/22/14	1	3.57	30
DILLINGER, JOHN	88888	IBUPROFEN 200MG TAB	TEST, TEST		69358257	08/22/14	1	3.57	120
FLOYD, PRETTY BOY	11111	IBUPROFEN 800MG TAB	TEST, TEST		69358263	08/22/14	1	3.57	30
FLOYD, PRETTY BOY	11111	PAROXETINE 20MG TAB	TEST, TEST		69358266	08/22/14	1	3.57	30
FLOYD, PRETTY BOY	11111	CIPROFLOXACN 500MG	TEST, TEST		69358264	08/22/14	1	3.57	10
FLOYD, PRETTY BOY	11111	CLINDAMYCIN 150MG CAP	TEST, TEST		69358262	08/22/14	1	3.57	40
FLOYD, PRETTY BOY	11111	QUETIAPINE 400MG TAB	TEST, TEST		69358265	08/22/14	1	3.57	60
FULLER, BILL		REYATAZ 150MG CAP	TEST, TEST		69358270	08/22/14	1	3.57	30
FULLER, BILL		QUETIAPINE 100MG TAB	TEST, TEST		69358274	08/22/14	1	3.57	30
FULLER, BILL		CIPROFLOXACN 500MG	TEST, TEST		69358273	08/22/14	1	3.57	14
FULLER, BILL		ABILIFY 10MG TAB	TEST, TEST		69358272	08/22/14	1	3.57	30
KEVORKIAN, JACK	22222	ABILIFY 10MG TAB	TEST, TEST		69358267	08/22/14	1	3.57	30
KEVORKIAN, JACK	22222	TRUVADA TAB	TEST, TEST		69358268	08/22/14	1	3.57	30
NELSON, BABYFACE	98765	PAROXETINE 20MG TAB	TEST, TEST		69358248	08/22/14	1	3.57	30
NELSON, BABYFACE	98765	PENICILLIN VK 500MG TAB	TEST, TEST		69358247	08/22/14	1	3.57	30
NELSON, BABYFACE	98765	QUETIAPINE 100MG TAB	TEST, TEST		69358255	08/22/14	1	3.57	120
NELSON, BABYFACE	98765	IBUPROFEN 800MG TAB	TEST, TEST		69358246	08/22/14	1	3.57	90
SIMPSON, O.J.	33333	IBUPROFEN 800MG TAB	TEST, TEST		69358276	08/22/14	1	3.57	40
SIMPSON, O.J.	33333	PAROXETINE 20MG TAB	TEST, TEST		69358278	08/22/14	1	3.57	30
SIMPSON, O.J.	33333	AMOXICILLIN 250MG CAP	TEST, TEST		69358275	08/22/14	1	3.57	40
TEST, PATIENT	12345	AMOXICILLIN 500MG CAP	TEST, TEST		69358243	08/22/14	1	3.57	30
TEST, PATIENT	12345	BACLOFEN 10MG TAB	TEST, TEST		69358245	08/22/14	1	3.57	90
TEST TEST - Doctor							**28**	**100.00**	**1174**
TEST FACILITY - Facility - Facility							**28**	**100.00**	**1174**
WESTWOOD - Pharmacy - Pharmacy							**28**	**100.00**	**1174**
Grand Totals							**28**	**100.00**	**1174**

Patient Count: 8

Report Samples

CONFIDENTIAL

Sample Top Formulary v Non-Formulary Report			
Formulary		**Non-Formulary**	
COMPLERA,	$4,266.56	GLATOPA, 20MG/ML	$4,937.35
VENTOLIN HFA,	$3,317.49	RENVELA, 800MG	$3,839.69
QVAR, 40MCG	$3,360.1	XARELTO, 15MG	$3,716.92
PERPHENAZINE, 4MG	$2,518.46	SENSIPAR, 30MG	$2,347.04
ATRIPLA,	$2,153.45	RANEXA, 1000MG	$1,646.28
BICILLIN L-A, 2,400,000 UN	$1,139.98	ASACOL HD, 800MG	$1,610.69
LANTUS, 100/ML	$1,087.15	RISPERDAL, 50MG	$1,400.16
GABAPENTIN, 800MG	$892.89	CRESTOR, 40MG	$1,212.8
BACLOFEN, 10MG	$758.7	SELENIUM SUL, 0.0225	$1,165.14
GABAPENTIN, 600MG	$711.26	PENTASA, 500MG CR	$765.58
DOXEPIN HCL, 50MG	$572.3	ARIPIPRAZOLE, 10MG	$661.92
DOXEPIN, 100MG	$549.42	SYMBICORT, 80-4.5	$453.26
EPINEPHRINE, 0.3MG	$548.45	CRESTOR, 10MG	$407.48
BUPROPION SR, 150MG	$539.32	DOXYCYCLINE HYCLATE, 100MG	$339.87
BUPROPION, 200MG SR	$528.68	NEO/POLY/HC, OP	$330.06
Grand Total	**$22,944.21**	**Grand Total**	**$24,834.24**

WESTWOOD — Filled Script Summary - HIV, TB, Psychotropic — Page 1
6/8/2015 — Fill Dates: 1/1/2014 - 12/31/2014 — 11:35 am

Prescriptions				Patients		Controlled Scripts		Non Formulary		HIV Scripts		TB Scripts		Psychotropic	
New	Refills	Profile	Total	Patients	On Meds	Fills	Patients	Fills	Patients	Fills	Patient	Fills	Patient	Fills	Patient
TEST FACILITY - TEST															
28	0	0	28	9	8	0	0	0	0	2	2	0	0	14	7
Totals															
28	0	0	28	9	0	0	0	0	0	2	2	0	0	14	7

Report Samples

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Patient	Pat #	Drug	Doctor	DEA	Rx #	Fill Date	Fills	Fil %	Dsp Qty	GPI	SIG	Days Supply	NDC	Item Number	Cost
Last Name, First Name	###	ATROVENT HFA 17MCG AER	Last Name, First Name	AB1234567	12345678	6/3/2016	1	2.04	12.9	4.41E+13	INHALE TWO PUFF(S) BY MOUTH TWICE DAILY	30	597008717	59081	$$$
Last Name, First Name	###	CHLORHEXIDINE GLUCONATE 0.12% SOL	Last Name, First Name	AB1234567	12345678	6/3/2016	1	2.04	473	8.815E+13	15ML FOUR TIMES A DAY SWISH AND SPIT	8	116200116	57959	$$$
Last Name, First Name	###	CHLORHEXIDINE GLUCONATE 0.12% SOL	Last Name, First Name	AB1234567	12345678	6/9/2016	1	2.04	473	8.815E+13	15ML FOUR TIMES A DAY SWISH AND SPIT	8	116200116	57959	$$$
Last Name, First Name	###	CHLORHEXIDINE GLUCONATE 0.12% SOL	Last Name, First Name	AB1234567	12345678	6/20/2016	1	2.04	473	8.815E+13	15ML FOUR TIMES A DAY SWISH AND SPIT	8	116200116	57959	$$$
Last Name, First Name	###	CILOSTAZOL 100MG TAB	Last Name, First Name	AB1234567	12345678	6/17/2016	1	2.04	60	8.5156E+13	TAKE ONE TABLET(S) BY MOUTH TWICE DAILY	30	93206406	37978	$$$
Last Name, First Name	###	DIVALPROEX ER 500MG TAB	Last Name, First Name	AB1234567	12345678	6/1/2016	1	2.04	60	7.25E+13	TAKE TWO TABLET(S) BY MOUTH EVERY MORNING	30	10370051150	46315	$$$
Last Name, First Name	###	DIVALPROEX ER 500MG TAB	Last Name, First Name	AB1234567	12345678	6/1/2016	1	2.04	90	7.25E+13	TAKE THREE TABLET(S) BY MOUTH EVERY EVENING	30	10370051150	46315	$$$
Last Name, First Name	###	FLOVENT HFA 110MCG AER	Last Name, First Name	AB1234567	12345678	6/16/2016	1	2.04	12	4.44E+13	INHALE TWO PUFF(S) BY MOUTH TWICE DAILY	15	173071920	21251	$$$
Last Name, First Name	###	SIMBRINZA EYE	Last Name, First Name	AB1234567	12345678	6/9/2016	1	2.04	8	8.661E+13	INSTILL 1 DROP INTO BOTH EYES TWICE DAILY	16	65414727	70913	$$$
Last Name, First Name	###	APLISOL 5/0.1ML INJ	Last Name, First Name	AB1234567	12345678	6/7/2016	1	2.04	10	9.43E+13	*EKIT*	1	42023010401	9700	$$$
Last Name, First Name	###	ATROVENT HFA 17MCG AER	Last Name, First Name	AB1234567	12345678	6/30/2016	1	2.04	12.9	4.41E+13	INHALE TWO PUFF(S) BY MOUTH TWICE DAILY	28	597008717	59081	$$$
Last Name, First Name	###	DELZICOL 400MG CAP	Last Name, First Name	AB1234567	12345678	6/14/2016	1	2.04	180	5.25E+13	TAKE TWO CAPSULE(S) BY MOUTH THREE TIMES DAILY	30	430075327	70543	$$$
Last Name, First Name	###	DOXYCYCLINE HYCLATE 100MG CAP	Last Name, First Name	AB1234567	12345678	6/6/2016	1	2.04	150	4E+12	*E-KIT*	1	69235031050	9218	$$$
Last Name, First Name	###	ERYTHROCIN FILMTAB 250MG TAB	Last Name, First Name	AB1234567	12345678	6/2/2016	1	2.04	90	3.1E+12	TAKE ONE TABLET(S) BY MOUTH THREE TIMES DAILY	30	24338010620	9255	$$$
Last Name, First Name	###	METOPROLOL SUCC ER 50MG TAB	Last Name, First Name	AB1234567	12345678	6/7/2016	1	2.04	60	3.32E+13	TAKE ONE TABLET(S) BY MOUTH TWICE DAILY	30	55111046705	16599	$$$
Last Name, First Name	###	METOPROLOL SUCC ER 50MG TAB	Last Name, First Name	AB1234567	12345678	6/27/2016	1	2.04	30	3.32E+13	TAKE ONE TABLET(S) BY MOUTH EVERY MORNING	30	55111046705	16599	$$$
Last Name, First Name	###	NITROSTAT 4X25 0.4MG TAB	Last Name, First Name	AB1234567	12345678	6/16/2016	1	2.04	25	3.21E+13	2 TABS SUBLINGUALLY EVERY 5 MIN X 3 DOSES AS NEEDED CHEST PAIN	1	71041813	475	$$$
Last Name, First Name	###	NORTRIPTYLINE HCL 10MG CAP	Last Name, First Name	AB1234567	12345678	6/10/2016	1	2.04	30	5.82E+13	TAKE ONE CAPSULE(S) BY MOUTH AT BEDTIME	30	51672400102	46059	$$$

Report Samples

CONFIDENTIAL

Sample Top 20 Medications By Month	
Drug	Cost
TRUVADA,	$8,000.28
ARIPIPRAZOLE, 5MG	$4,113.38
REYATAZ, 300MG	$3,695.34
PREZISTA, 800MG	$3,668.79
ARIPIPRAZOLE, 20MG	$3,310.29
VENTOLIN HFA,	$2,523.52
QUETIAPINE, 300MG	$2,409.91
QVAR, 80MCG	$2,360.15
ATRIPLA,	$2,153.17
PRAZOSIN HCL, 2MG	$2,126.15
ADVAIR DISKUS, 250/50	$2,038.63
EPINEPHRINE, 0.3MG	$1,812.20
ZIPRASIDONE, 60MG	$1,808.01
QUETIAPINE, 400MG	$1,710.41
ARIPIPRAZOLE, 15MG	$1,666.55
ABILIFY MAINTENA, 400MG	$1,600.16
NORVIR, 100MG	$1,499.82
QUETIAPINE, 200MG	$1,477.75
ZIPRASIDONE, 80MG	$1,414.29
CLINDAMY/BEN 1-5%, 1-5%	$1,378.12
Grand Total	$50,766.92

Report Samples

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Drug Class	Cost
antianxiety agents	**$235.88**
HYDROXYZ HCL, 25MG	$206.76
HYDROXYZ PAMOATE, 25MG	$29.12
antiasthmatics	**$153.98**
PROAIR HFA,	$54.52
VENTOLIN HFA,	$99.46
anticonvulsants	**$29.66**
antidepressants	**$423.55**
ESCITALOPRAM, 10MG	$80.25
ESCITALOPRAM, 5MG	$49.37
FLUOXETINE, 40MG	$151.25
MIRTAZAPINE, 15MG	$47.40
SERTRALINE, 50MG	$5.98
TRAZODONE, 100MG	$6.87
TRAZODONE, 50MG	$21.70
VENLAFAXINE HCL ER, 37.5MG	$18.15
VENLAFAXINE HCL ER, 75MG	$42.58
antihistamines	**$12.35**
CETIRIZINE, 10MG	$2.58
LORATADINE, 10MG	$4.71
PROMETHAZINE HCL, 12.5MG	$5.06
antihypertensives	**$29.19**
CLONIDINE, 0.1MG	$13.41
CLONIDINE, 0.2MG	$15.78
antipsychotics	**$824.94**
ARIPIPRAZOLE, 5MG	$773.61
RISPERIDONE, 0.5MG	$6.73
RISPERIDONE, 1MG	$44.60
cephalosporins	**$26.07**
CEPHALEXIN, 500MG	$26.07
cough/cold	**$46.46**
BENZONATATE, 100MG	$9.96
BROMPH-PSEUDO-DM, 2-30-10 / 5	$36.50
decongestants	**$57.38**
FLUTICASONE, 50MCG	$57.38

Report Samples

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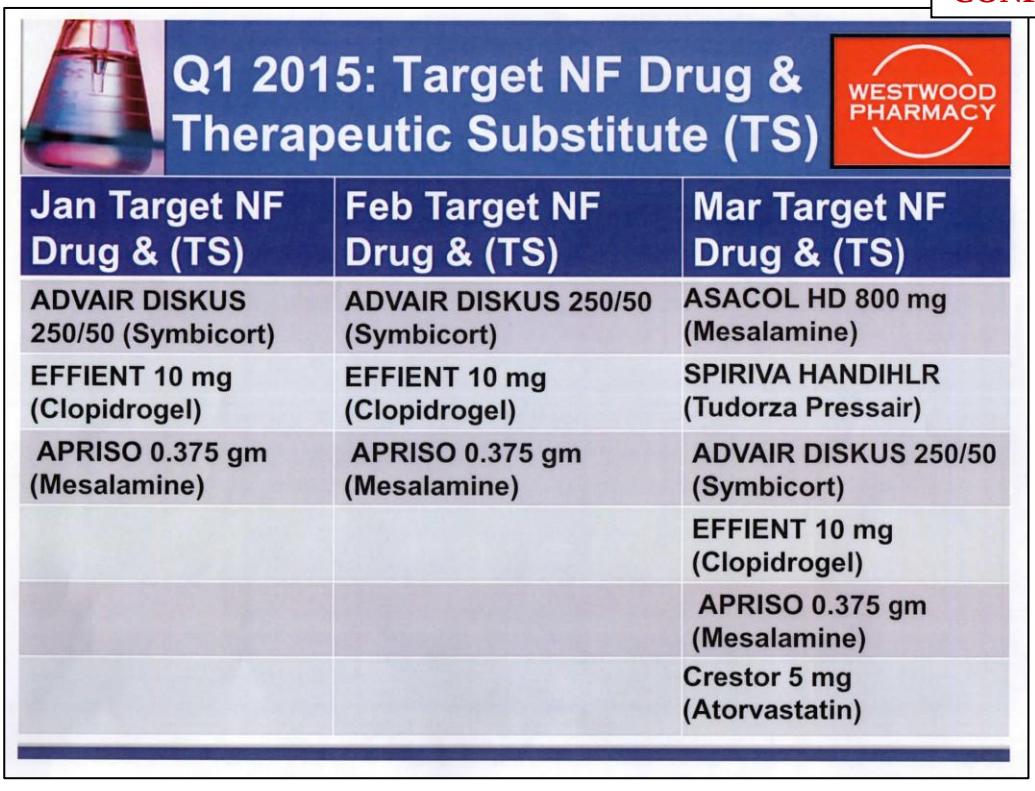

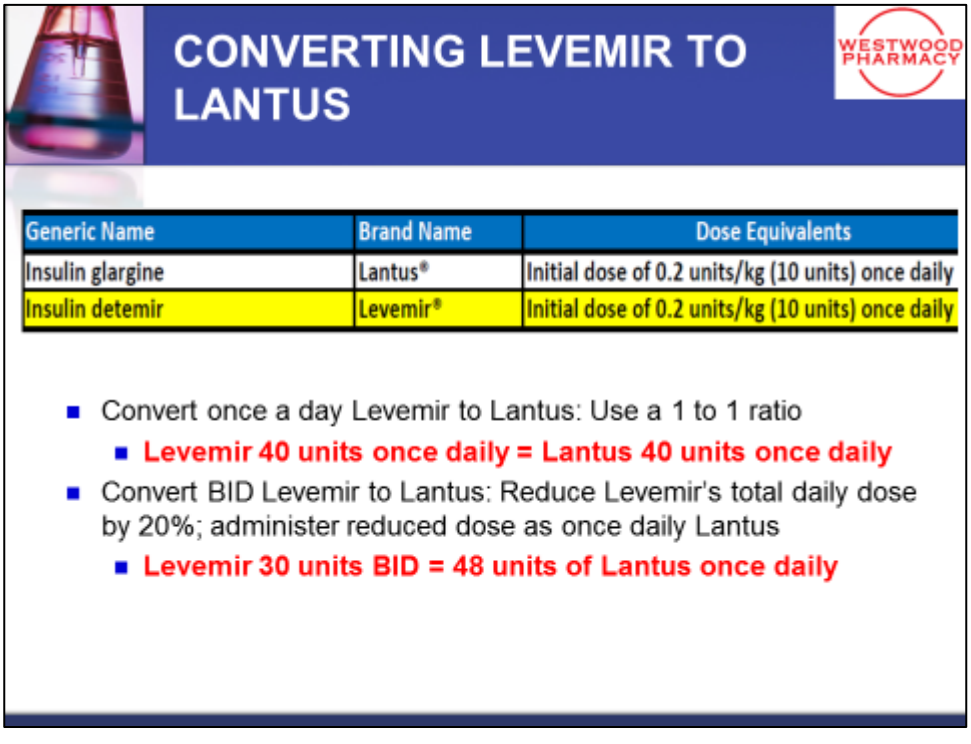

Report Samples

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DRUG	THERAPEUTIC SUBSTITUTE
ALVESCO	QVAR
CRESTOR	ATORVASTATIN
INVEGA	RISPERIDONE
OMEPRAZOLE	PANTOPRAZOLE
SEROQUEL XR	QUETIAPINE IR
SPIRIVA	TUDORZA

Quarterly Breakdown					
Month	Inmates on Meds	Rx Volume	Pharmacy Costs	Percent Change	Cost per Rx
August	169	517	$34,321.37		$66.39
September	205	603	$34,101.39	-0.64%	$56.55
October	207	564	$27,447.07	-19.51%	$48.67
Grand Total	581	1684	$95,869.83		

Therapeutic Class	August	September	% Change	October	% Change	Quarterly Total
Analgesics & Anesthetics	$359.71	$183.47	-49.00%	$239.47	30.52%	$782.65
Anti-Infective Agents	$1,534.44	$695.99	-54.64%	$857.32	23.18%	$3,087.75
Antineoplastic Agents	$108.04			$0.66	-99.39%	$108.70
Biologicals	$104.93					$104.93
Cardiovascular Agents	$1,684.52	$2,026.02	20.27%	$2,068.33	2.09%	$5,778.87
Central Nervous System Drugs	$12,515.59	$13,380.04	6.91%	$6,543.99	-51.09%	$32,439.62
Endocrine/Metabolic Drugs	$933.97	$819.77	-12.23%	$2,354.76	187.25%	$4,108.50
Gastrointestinal Agents	$1,926.14	$1,316.93	-31.63%	$219.13	-83.36%	$3,462.20
Genitourinary Products	$76.22	$257.82	238.26%	$123.61	-52.06%	$457.65
Hematological Agents	$47.88	$382.45	698.77%	$67.64	-82.31%	$497.97
HIV	$5,691.58	$7,792.06	36.91%	$5,716.77	-26.63%	$19,200.41
Miscellaneous Products	$117.73					$117.73
Neuromuscular Drugs	$1,625.88	$2,830.88	74.11%	$2,839.15	0.29%	$7,295.91
Nutritional Products	$23.24	$45.17	94.36%	$39.77	-11.95%	$108.18
Respiratory Agents	$4,651.29	$2,644.77	-43.14%	$3,591.01	35.78%	$10,887.07
Topical Products	$1,107.86	$1,726.02	55.80%	$2,785.46	61.38%	$5,619.34
OTC	$1,812.35					$1,812.35
Grand Total	**$34,321.37**	**$34,101.39**		**$27,447.07**		**$95,869.83**

Report Samples

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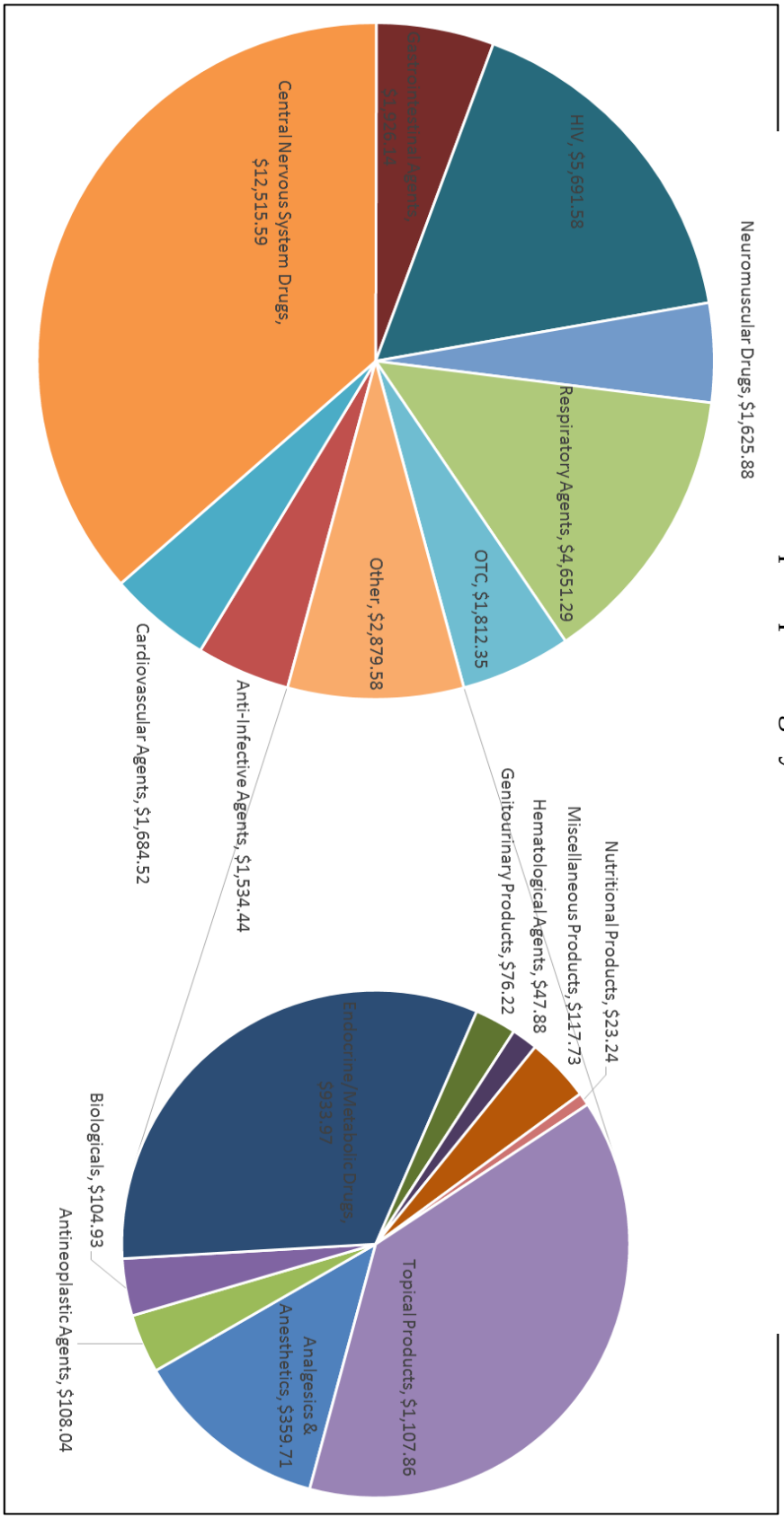

Report Samples

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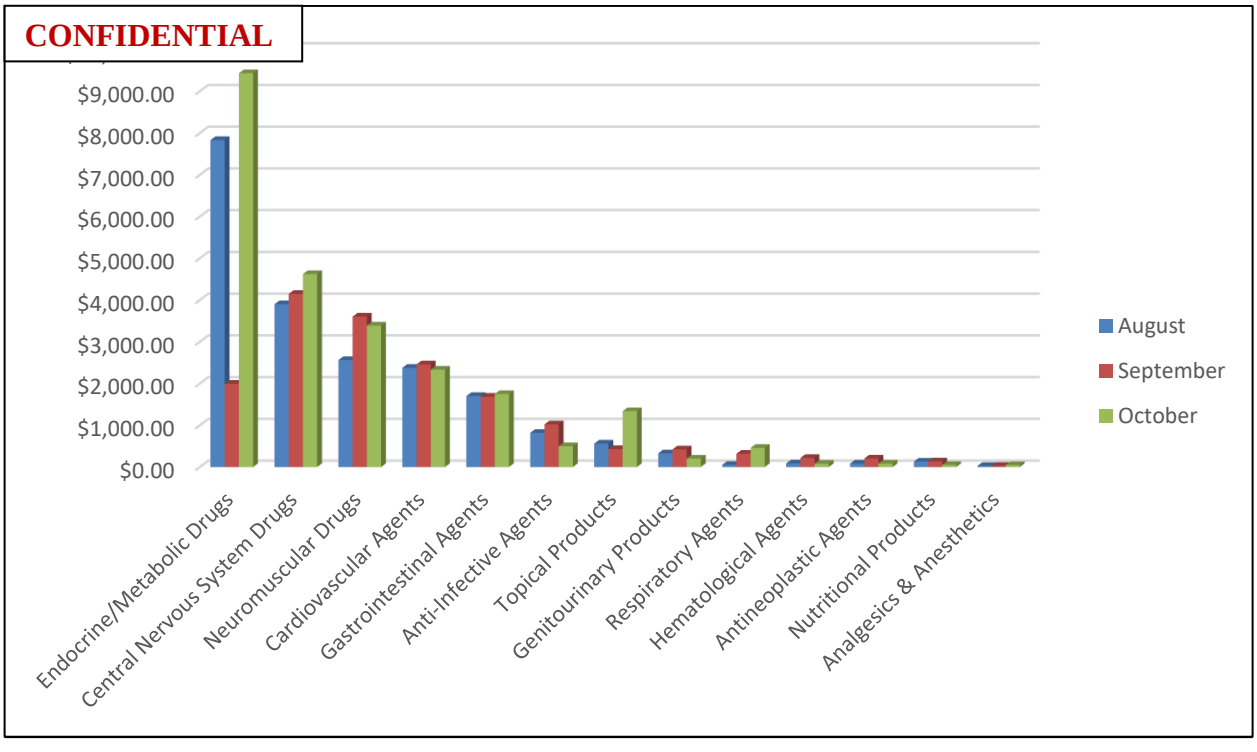
Top 20 Inmates	
Inmate Name	**Cost**
Inmate 1	$2,884.04
Inmate 2	$2,197.14
Inmate 3	$1,963.45
Inmate 4	$1,600.16
Inmate 5	$1,315.17
Inmate 6	$1,219.25
Inmate 7	$1,173.50
Inmate 8	$1,125.20
Inmate 9	$1,091.06
Inmate 10	$1,041.78
Inmate 11	$1,006.01
Inmate 12	$980.47
Inmate 13	$958.93
Inmate 14	$874.75
Inmate 15	$859.58
Inmate 16	$856.46
Inmate 17	$759.03
Inmate 18	$632.19
Inmate 19	$568.56
Inmate 20	$428.49
Grand Total	**$23,535.22**

Top Prescribers		
Doctor Name	**Cost**	**Percentage**
Doctor 1	$56,528.41	58.97%
Doctor 2	$24,356.53	25.41%
Doctor 3	$12,703.5	13.25%
Doctor 4	$1,567.86	1.64%
Doctor 5	$430.36	0.45%
Doctor 6	$277.67	0.29%
Grand Total	**$95,864.33**	

Report Samples



Report Samples

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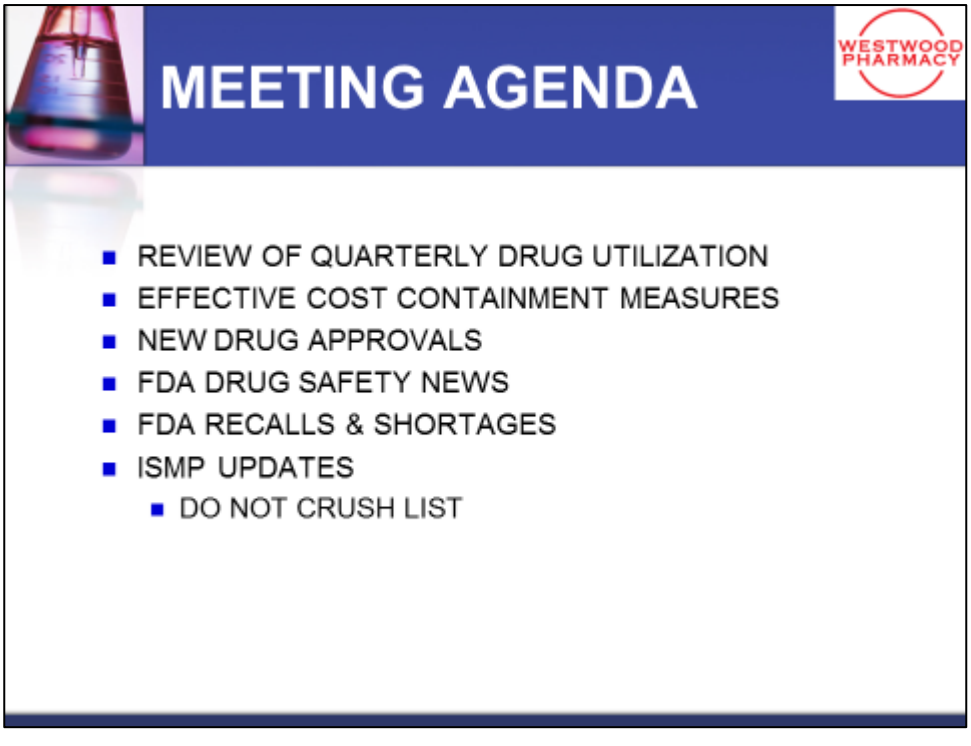
Please find an example of our Clinical Dashboard below.



Report Samples

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DEMOGRAPHIC VARIABLES

WESTWOOD PHARMACY

VARIABLE	Q3 2015	Q4 2015	%Δ
PATIENTS ON MEDS	N = 377	N = 350	7%▼
RX VOLUME	N = 2,694	N = 2,618	3%▼
PHARMACY COSTS (Rx$)	$170,928	$181,062	6%▲
Rx$/Rx	$63	$69	9.5%▲

TOP THERAPEUTIC CLASSES

WESTWOOD PHARMACY

CLASS	% OF ∑(Rx$) NOV 2015	% OF ∑(Rx$) DEC 2015	%Δ
PSYCH	50% ($86,075)	80%	
ADHD	28% ($47,249)		
RESP	7% ($11,965)	7% ($3,870)	
DERM	6% ($10,256)	5% ($2,870	
ENDO	3% ($5,128)	5% ($2,490)	
CV	2% ($2,036)	2% ($805)	
ID	1.5% ($3,419)	N/A	
GI	1% ($1,709)	1% ($433)	

Report Samples

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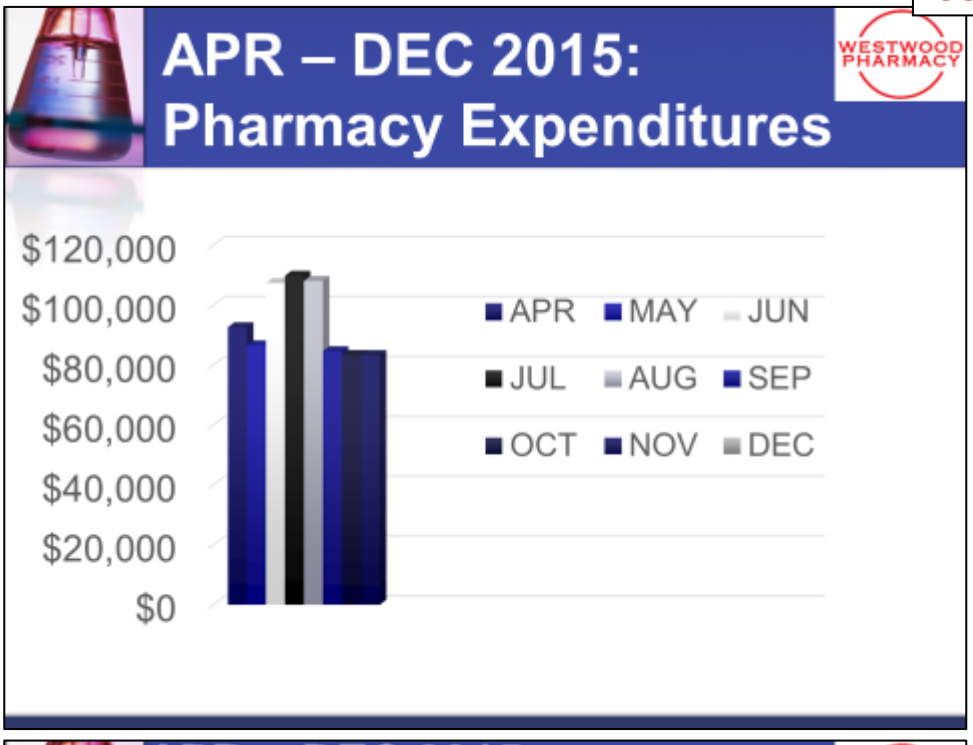

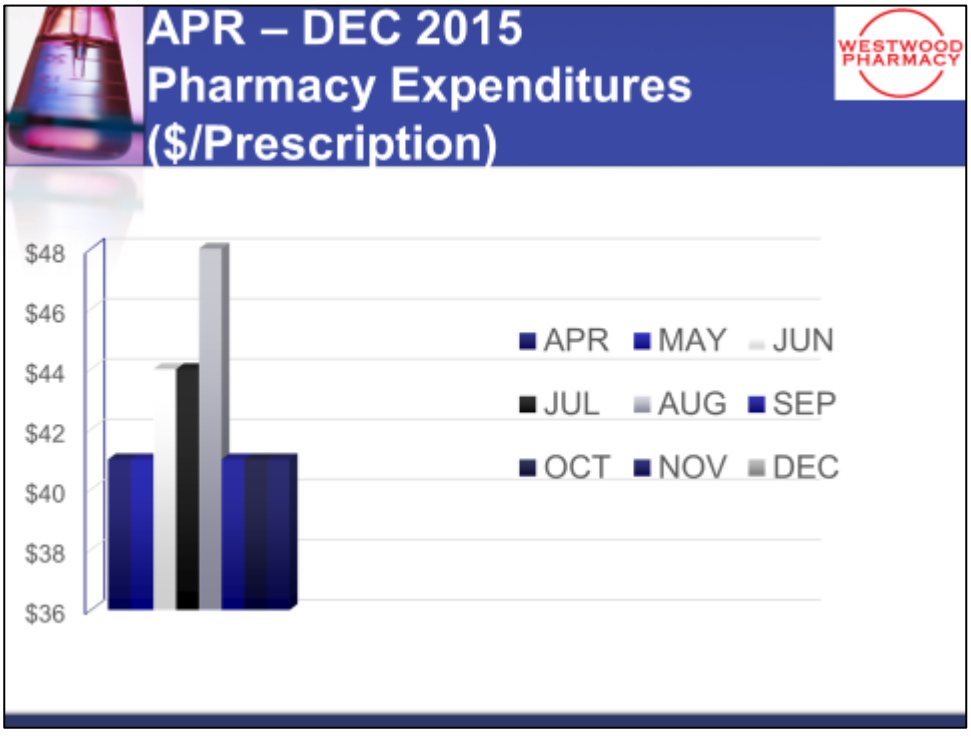

Report Samples

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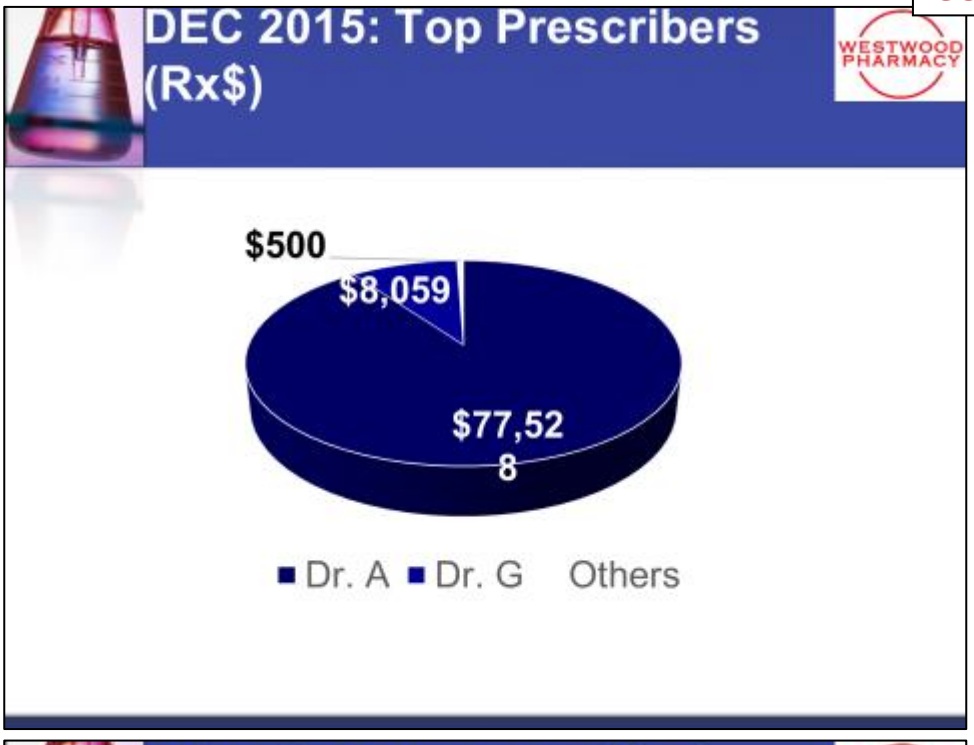

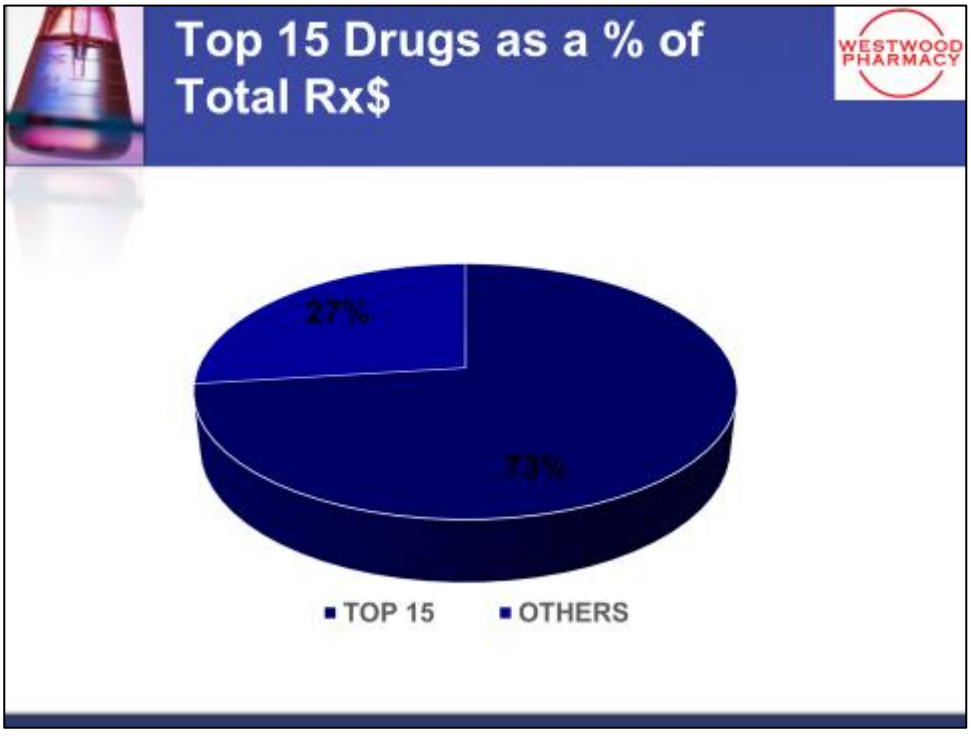

Report Samples

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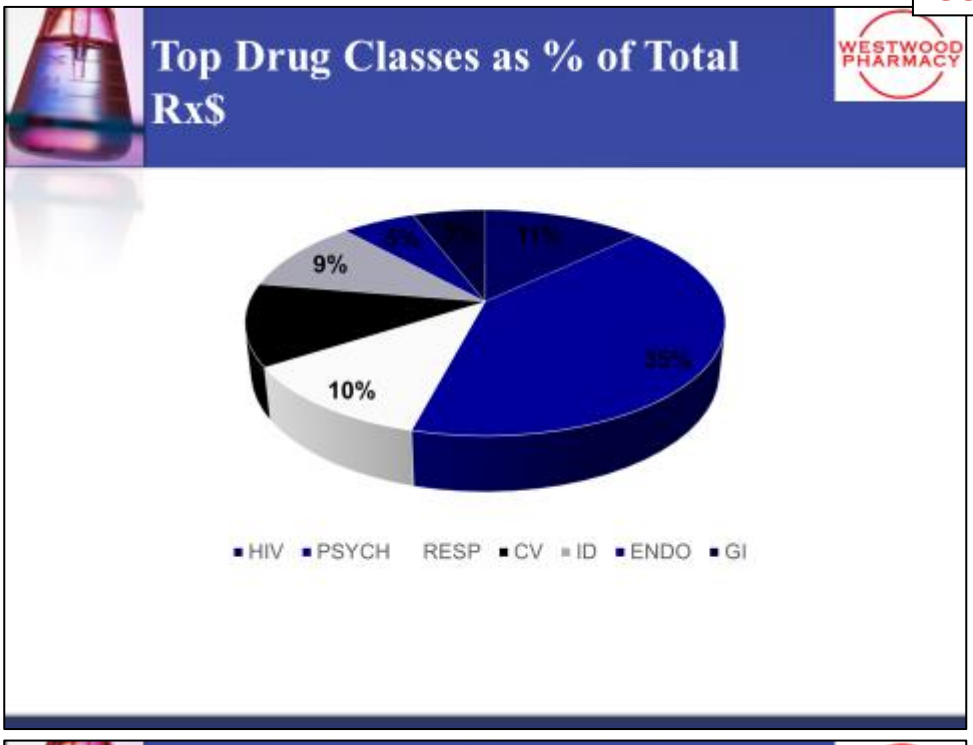

DEC '15:Top Rx$ ≥ $400

(Potential for Therapeutic Interchange)

WESTWOOD PHARMACY

Facility 1	Facility 2	Facility 3	Facility 4	Facility 5
XIFAXAN	ZENPEP	LEXIVA	TRIUMEQ	STRIBILD
TRUVADA	ATRIPLA	TRUVADA	EPZICOM	ASACOL HD
INVEGA SUST	TRUVADA	ISENTRESS	VIREAD	PREZISTA
PREZISTA	ISENTRESS		SUSTIVA	COMPLERA
SPIRIVA	LANTUS		HUMULIN N	TRIUMEQ
GABAPENTIN				ATRIPLA
ALVESCO				SEROQUEL XR
OMEPRAZOLE				HUMALOG
XARELTO				LATUDA
CRESTOR				LANTUS
				HUMULIN N

Report Samples

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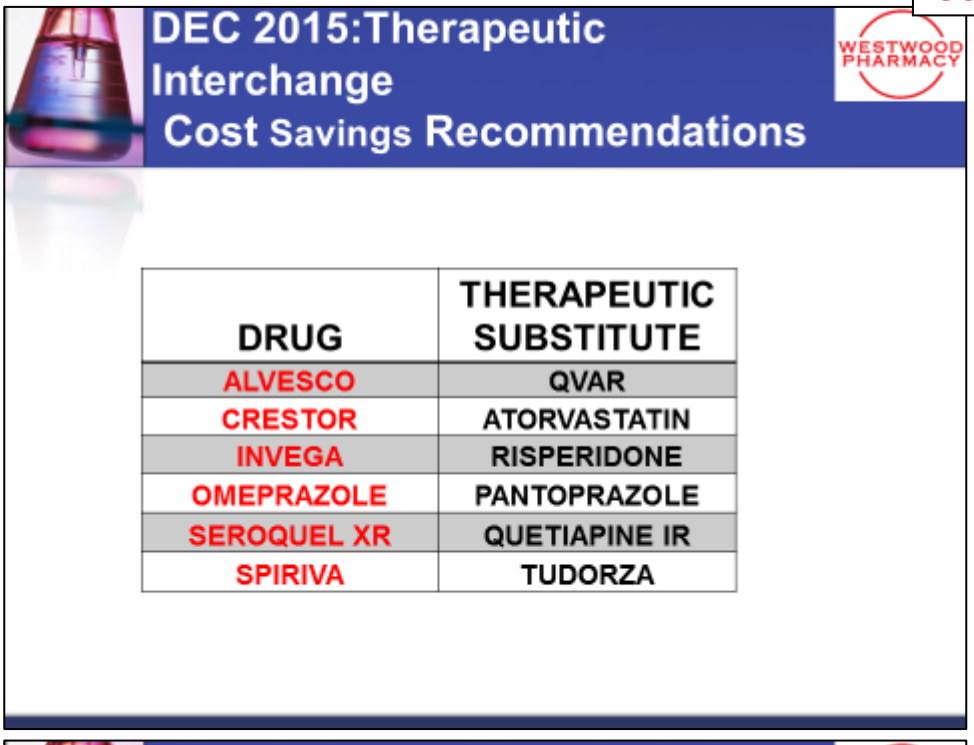
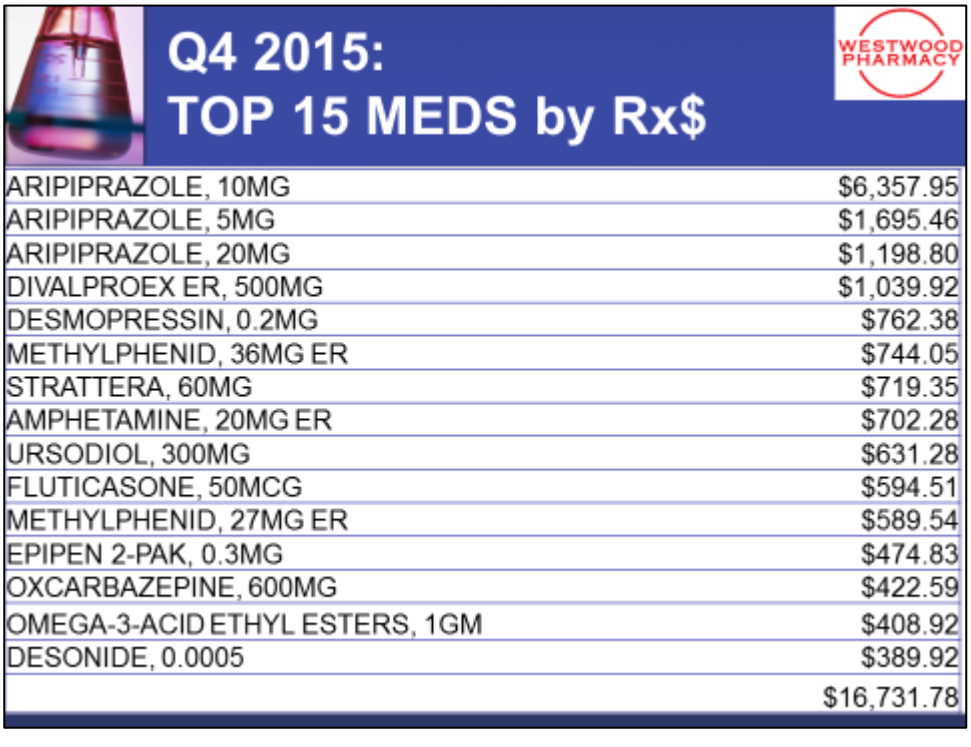


DEC 2015:Therapeutic Interchange Cost Savings Recommendations

WESTWOOD PHARMACY

DRUG	THERAPEUTIC SUBSTITUTE
ALVESCO	QVAR
CRESTOR	ATORVASTATIN
INVEGA	RISPERIDONE
OMEPRAZOLE	PANTOPRAZOLE
SEROQUEL XR	QUETIAPINE IR
SPIRIVA	TUDORZA



Q4 2015: TOP 15 MEDS by Rx$

WESTWOOD PHARMACY

ARIPIPRAZOLE, 10MG	$6,357.95
ARIPIPRAZOLE, 5MG	$1,695.46
ARIPIPRAZOLE, 20MG	$1,198.80
DIVALPROEX ER, 500MG	$1,039.92
DESMOPRESSIN, 0.2MG	$762.38
METHYLPHENID, 36MG ER	$744.05
STRATTERA, 60MG	$719.35
AMPHETAMINE, 20MG ER	$702.28
URSODIOL, 300MG	$631.28
FLUTICASONE, 50MCG	$594.51
METHYLPHENID, 27MG ER	$589.54
EPIPEN 2-PAK, 0.3MG	$474.83
OXCARBAZEPINE, 600MG	$422.59
OMEGA-3-ACID ETHYL ESTERS, 1GM	$408.92
DESONIDE, 0.0005	$389.92
	$16,731.78

Report Samples

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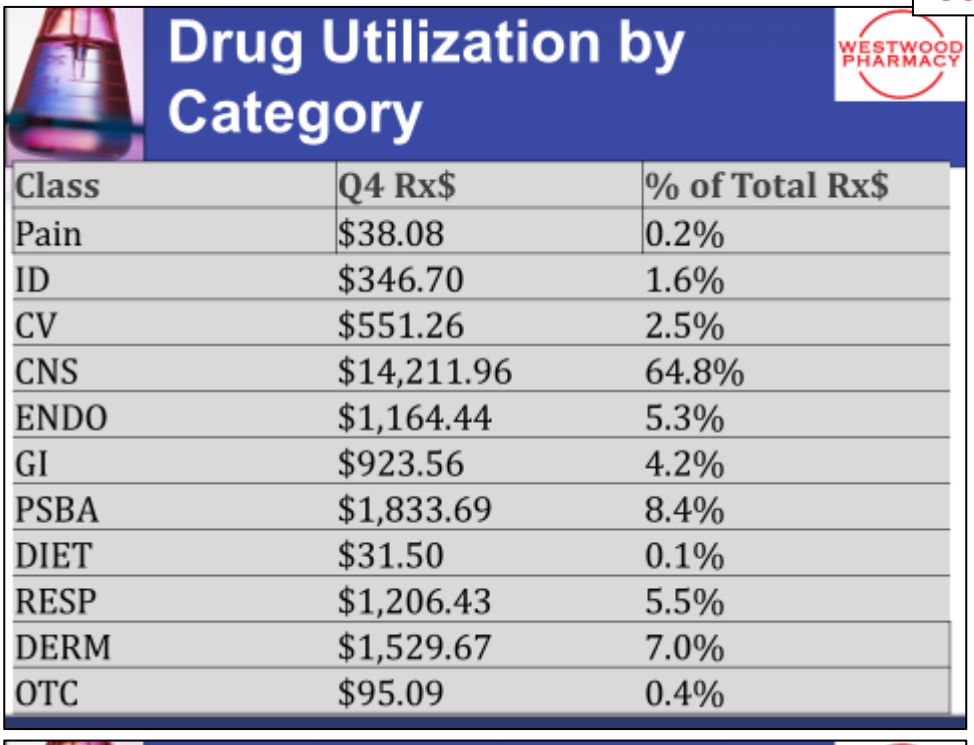
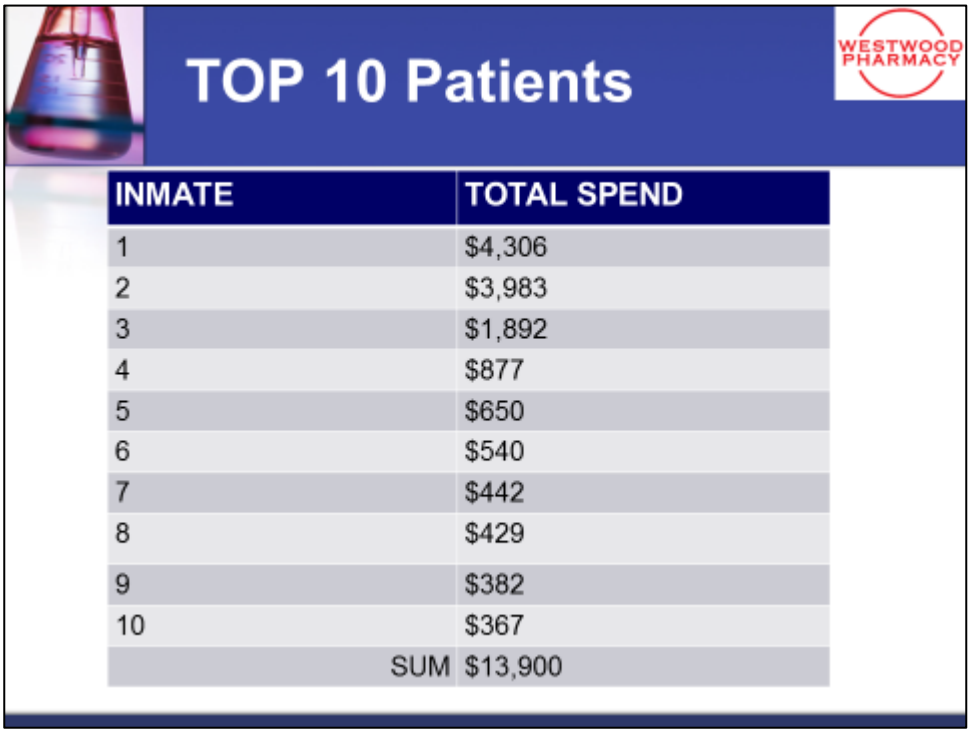


Drug Utilization by Category

WESTWOOD PHARMACY

Class	Q4 Rx$	% of Total Rx$
Pain	$38.08	0.2%
ID	$346.70	1.6%
CV	$551.26	2.5%
CNS	$14,211.96	64.8%
ENDO	$1,164.44	5.3%
GI	$923.56	4.2%
PSBA	$1,833.69	8.4%
DIET	$31.50	0.1%
RESP	$1,206.43	5.5%
DERM	$1,529.67	7.0%
OTC	$95.09	0.4%



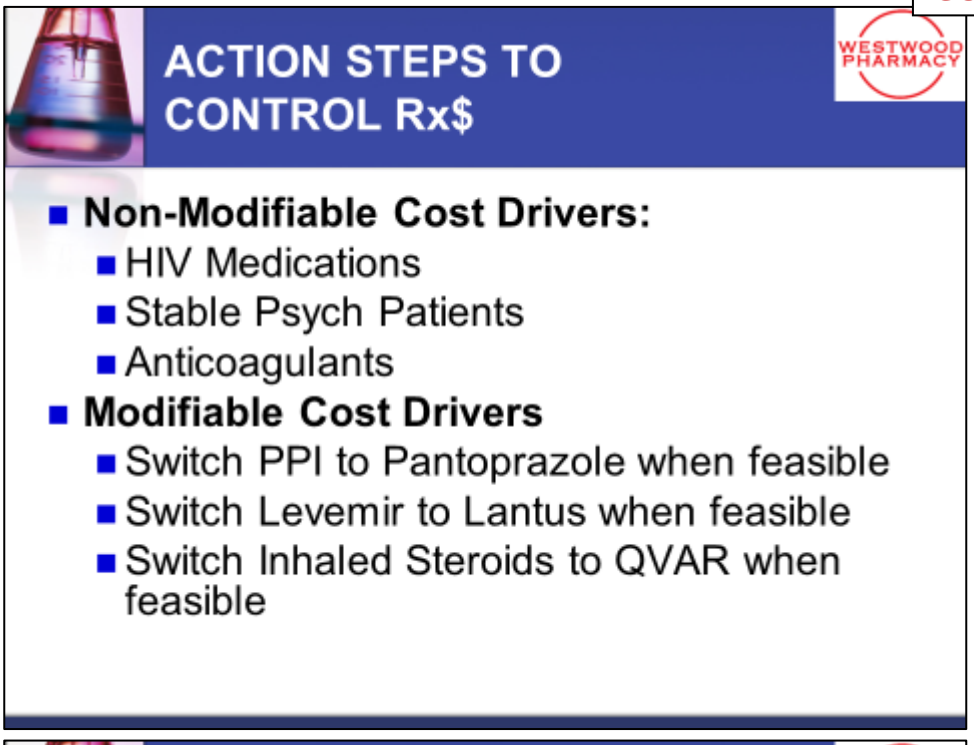
TOP 10 Patients

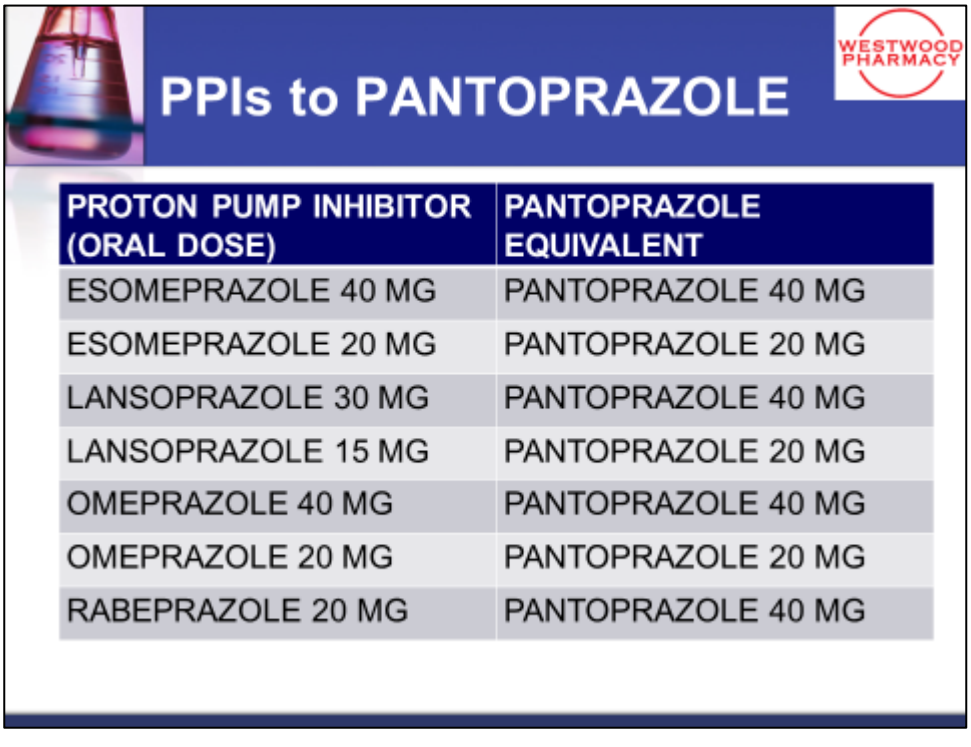
WESTWOOD PHARMACY

INMATE	TOTAL SPEND
1	$4,306
2	$3,983
3	$1,892
4	$877
5	$650
6	$540
7	$442
8	$429
9	$382
10	$367
SUM	$13,900

Report Samples

CONFIDENTIAL

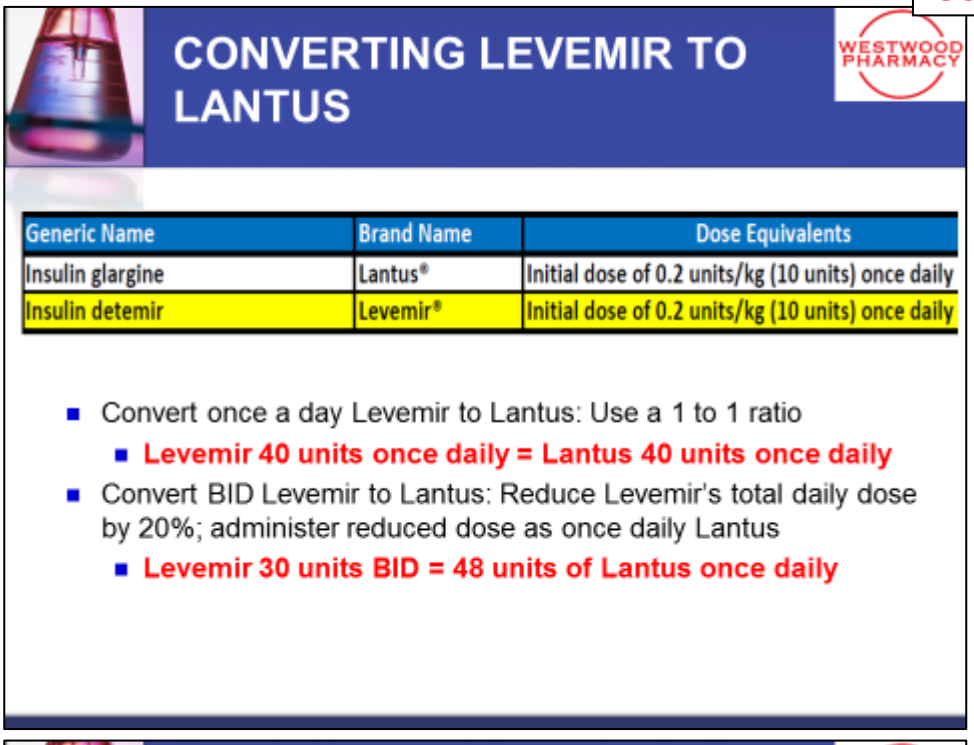


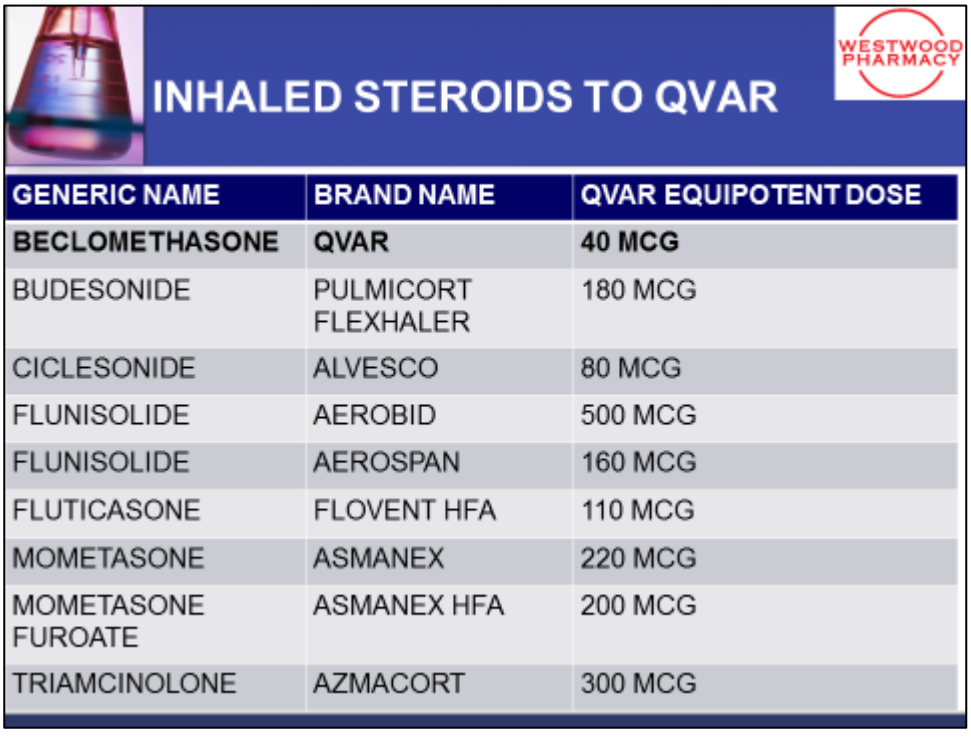


PROTON PUMP INHIBITOR (ORAL DOSE)	PANTOPRAZOLE EQUIVALENT
ESOMEPRAZOLE 40 MG	PANTOPRAZOLE 40 MG
ESOMEPRAZOLE 20 MG	PANTOPRAZOLE 20 MG
LANSOPRAZOLE 30 MG	PANTOPRAZOLE 40 MG
LANSOPRAZOLE 15 MG	PANTOPRAZOLE 20 MG
OMEPRAZOLE 40 MG	PANTOPRAZOLE 40 MG
OMEPRAZOLE 20 MG	PANTOPRAZOLE 20 MG
RABEPRAZOLE 20 MG	PANTOPRAZOLE 40 MG

Report Samples

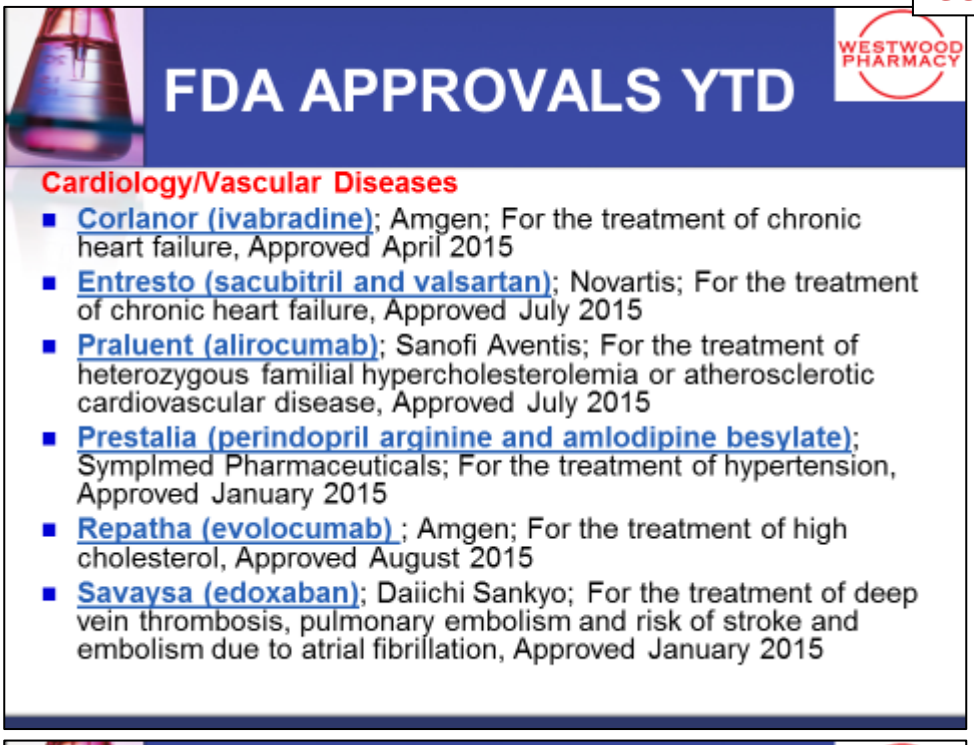
CONFIDENTIAL

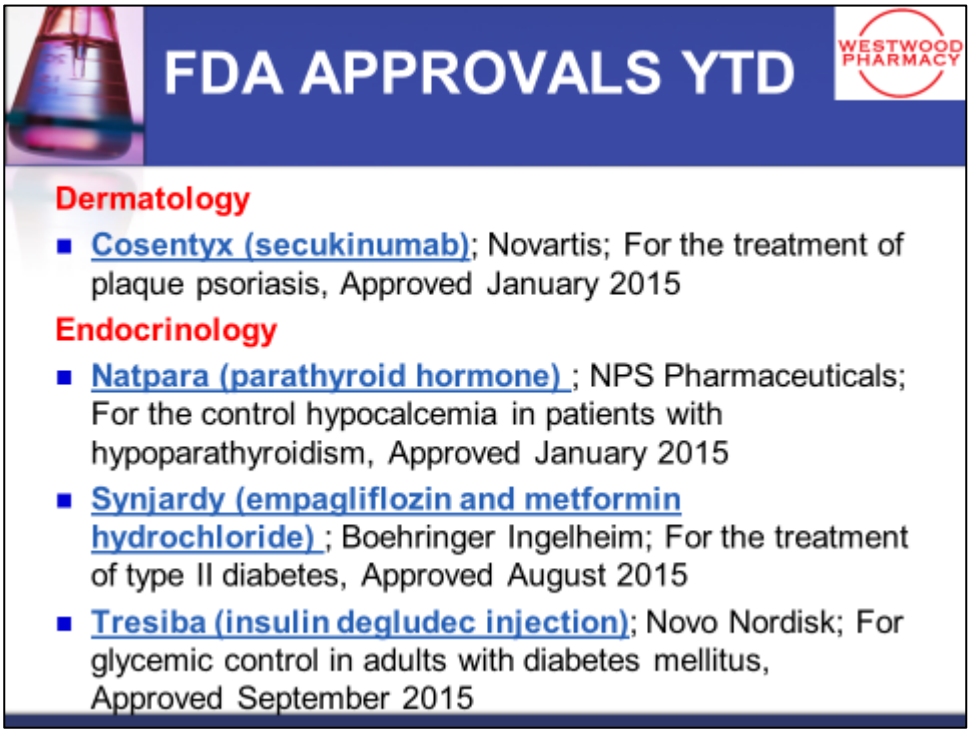




Report Samples

CONFIDENTIAL



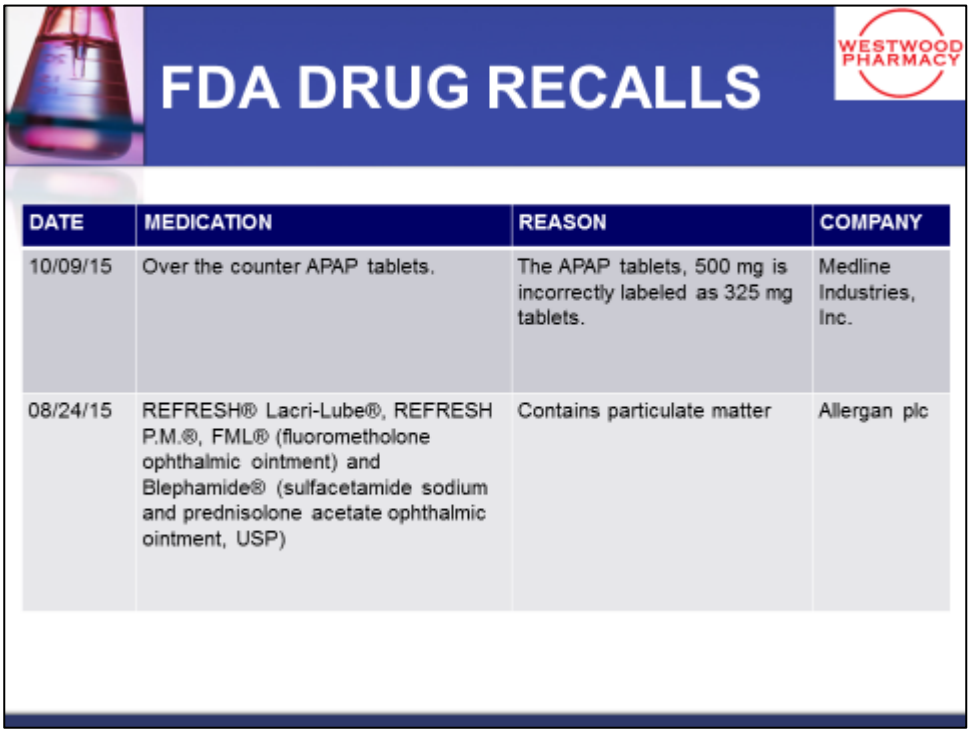


Report Samples

CONFIDENTIAL

Report Samples

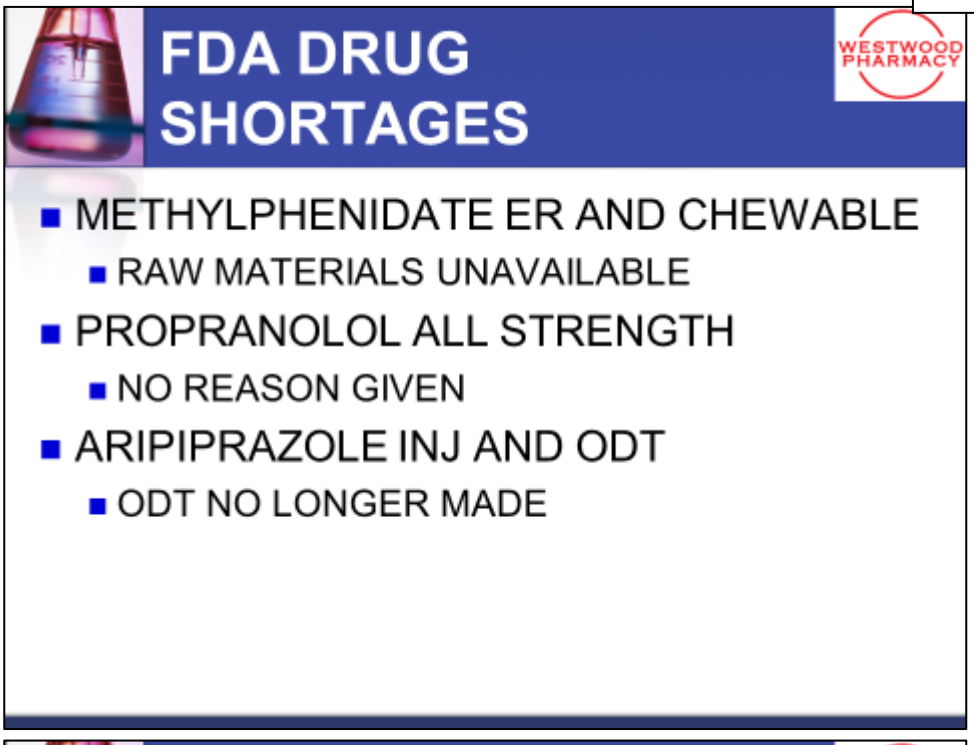
CONFIDENTIAL

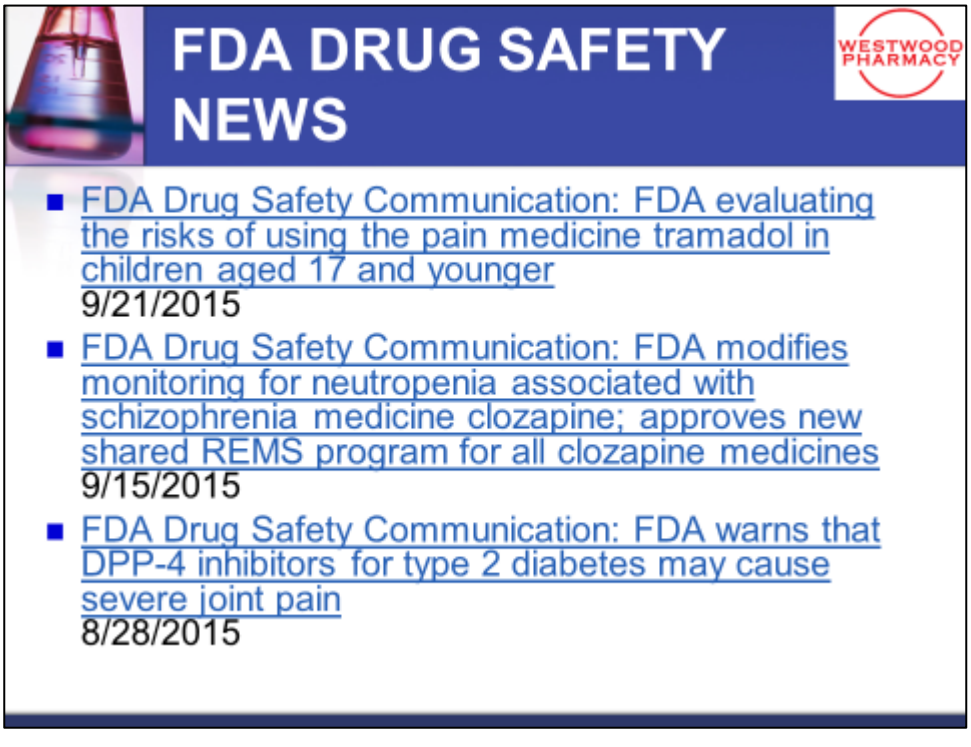


DATE	MEDICATION	REASON	COMPANY
10/09/15	Over the counter APAP tablets.	The APAP tablets, 500 mg is incorrectly labeled as 325 mg tablets.	Medline Industries, Inc.
08/24/15	REFRESH® Lacri-Lube®, REFRESH P.M.®, FML® (fluorometholone ophthalmic ointment) and Blephamide® (sulfacetamide sodium and prednisolone acetate ophthalmic ointment, USP)	Contains particulate matter	Allergan plc

Report Samples

CONFIDENTIAL





CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
2016-96130

Date Filed:
08/08/2016

Date Acknowledged:
08/22/2016

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.
Westwood Pharmacy
Richmond, VA United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.
Williamson County

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.
14RFP00219
Jail Pharmaceuticals

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary

5 Check only if there is NO Interested Party. [X]

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

_____
Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said _____, this the _____ day of _____, 20_____, to certify which, witness my hand and seal of office.

_____ _____ _____
Signature of officer administering oath | Printed name of officer administering oath | Title of officer administering oath

Forms provided by Texas Ethics Commission www.ethics.state.tx.us Version V1.0.277

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
2017-261546

Date Filed:
09/16/2017

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.
Westwood Pharmacy
Richmond, VA United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.
Williamson County

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.
1708-185
RFP 1708-185 Provision of Pharmaceutical Service and Supplies

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary

5 Check only if there is NO Interested Party. [X]

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

_____
Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said _____, this the _____ day of _____, 20_____, to certify which, witness my hand and seal of office.

_____ _____ _____
Signature of officer administering oath | Printed name of officer administering oath | Title of officer administering oath

Forms provided by Texas Ethics Commission www.ethics.state.tx.us Version V1.0.3337

Supplier: **MAO Pharmacy**

Williamson County – Request for Proposal (RFP)

SECTION 1 - DEFINITIONS

Addendum/Addenda – means any written or graphic instruments issued by the County prior to the consideration of Proposals which modify or interpret the Proposal Documents by additions, deletions, clarifications, or corrections.

Agreement/Ensuing Agreement(s) – means the Successful Respondent may be required by the County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and the Respondent's Proposal. Such Ensuing Agreement(s) shall contain the Proposal specifications, terms and conditions that are derived from the RFP.

Contract – means this RFP and the Proposal of the Successful Respondent shall become a Contract between the Successful Respondent and the County once the Successful Respondent's Proposal is properly accepted by the Williamson County Commissioners Court (sometimes referred to herein as the Commissioner's Court").

Commissioner's Court – means the Williamson County Commissioners Court.

County – means Williamson County, a political subdivision of the State of Texas.

Executive Summary – means the document submitted by Respondent that represents a concise summary of the contents of the Proposal. It does not include any information concerning costs.

Proposal Documents – means the Legal Notice, RFP including attachments, and any Addenda issued by the County prior to the consideration of any Proposals.

Proposal – means the complete, properly signed document, and ALL required forms and documentation listed in the proposal package which have been submitted in accordance with this RFP package. A Proposal submitted in accordance with this RFP is irrevocable during the specified time period for evaluation and acceptance of Proposals, unless a waiver is obtained from the Williamson County Purchasing Agent.

Respondent – means a person or entity who submits a Proposal in response to this RFP.

Request for Proposals (RFP) – means this document, together with the attachments thereto and any future Addenda issued by the County.

Successful Respondent– means the responsible Respondent who, in the County's sole opinion, submits the Proposal which is in the best interest of the County, taking into account factors identified

herein, and to whom the County intends to award the Contract.

SECTION 2 - RESPONSE FORMAT AND SUBMISSION

2.1 INTRODUCTION

Each Proposal submitted in response to this RFP should clearly reference the numbered sections of this RFP that require a response. Failure to arrange the Proposal as requested may result in the disqualification of the Proposal.

Though there is not a page limit for Proposals, to save natural resources including paper, and to allow the County staff to efficiently evaluate all submitted Proposals, the County requests that Proposals be orderly, concise, but comprehensive in providing the requested information. Conciseness and clarity of content are emphasized and encouraged. If mailed or delivered in person, please limit additional, non requested information.

Please provide your Proposal response using:

A. 8 ½" x 11" pages, inclusive of any cover letter or supporting materials.

B. The least amount of plastic/laminate or other non-recyclable binding materials.

C. Single-sided printing.

Vague and general Proposals will be considered non-responsive, and may, at the County's sole discretion, result in disqualification. Proposals must be legible and complete. Failure to provide the required information may result in the disqualification of the Proposal. All pages of the Proposal should be numbered and the Proposal should contain an organized, paginated table of contents corresponding to the sections and pages of the Proposal.

2.2 ORGANIZATION OF PROPOSAL CONTENTS AND TABLE OF CONTENTS

Each Proposal should be submitted with a table of contents that clearly identifies and denotes the location of all enclosures of the Proposal. The table of contents should follow the RFP's structure as much as is practical.

Each Proposal should be organized in the manner described below:

A. Transmittal Letter. Please see Section 2.3, Transmittal Letter, for more information.

B. Table of Contents.

C. Executive Summary. Please see Section 2.4, Executive Summary.

D. Proposal Response to Criteria. (Please see the sections in this RFP package that list the Specifications & Cost Proposal, Experience and Qualifications, References, and Implementation Strategy to respond to our criteria in a clear and concise manner)

E. Price Sheet.

F. References: Identification of three (3) references within the last four (4) years, for which the Respondent is providing, or has provided, the goods and/or services (public sector) of the type requested in this RFP. Include the name, position/title, and telephone number of a contact person at each entity.

G. Conflict of Interest Questionnaire.

H. Proposal Affidavit (Signature Page).

I. Attach your entities sample Contract, if applicable, for the County's review and consideration. This should include any additional terms or conditions. The County is not required to use the sample Contract submitted.

2.3 TRANSMITTAL LETTER

The Respondent should submit a Transmittal Letter that provides the following information:

A. Name and address of individual or business entity submitting the Proposal.

B. Respondent's type of business entity (i.e., Corporation, General Partnership, Limited Partnership, LLC, etc.). See Section 3.5, Signature of Respondent, for more information.

C. Place of incorporation or organization, if applicable.

D. Name and location of major offices and other facilities that relate to the Respondent performance under the terms of this RFP.

E. Name, physical address, email address, business and fax number of the Respondent's principal contact person regarding all contractual matters relating to this RFP.

F. The Respondent's Federal Employer Identification Number.

G. A commitment by the Respondent to provide the services required by the County;

H. A statement that the Proposal is valid for the time specified on page three (3), under the section named *Prices Good for*, of this Proposal packet. Any Proposal containing a term of less than t required amount, may at the County's sole discretion, be rejected as non-responsive.

I. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.40, Air Quality for more information.

The Transmittal Letter should be signed by a person legally authorized to bind the Respondent to t representations in the Transmittal Letter and the Proposal. In the case of a joint Proposal, each party must sign the Transmittal Letter.

2.4 EXECUTIVE SUMMARY

The Respondent should provide an Executive Summary of its Proposal that asserts that the Respondent is providing in its response all of the requirements of this RFP. The Executive Summary should not include any information concerning the cost of the Proposal, but instead must represent a full and concise summary of the contents of the Proposal. It is recommended the Executive Summary include the following information:

A. Identify any goods and/or services that are provided beyond those specifically requested. If the Respondent is providing services and/or goods that do not meet the specific requirements of this RFP, but in the opinion of the Respondent are equivalent or superior to those specifically requested, any such differences should be noted in the Executive Summary. However, the Respondent must realize that failure to provide the goods and/or services specifically required, at the County's sole discretion, may result in disqualification of the Proposal.

B. Indicate why the Respondent believes that it is the most qualified Respondent to provide the services described in this RFP. The Successful Respondent must demonstrate extensive experience and understanding of the intent of this project. The Respondent should describe in detail the current and historical experience the Respondent and its subcontractors have that would be relevant to completing the project. References must contain the name of key personnel and telephone numbers for each contact, as described in Section 3.14, References.

C. Briefly state why the Respondent believes its proposed goods and/or services best meet the County's needs and RFP requirements, and the Respondent also should concisely describe any additional features, aspects, or advantages of its goods and/or services in any relevant area not covered elsewhere in its Proposal.

2.5 CONFLICT OF INTEREST

No public official shall have interest in a contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code, Title 5, Subtitle C, Chapter 171, as amended.

As of January 1, 2006, all Respondents are responsible for complying with Local Government Code, Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County's website at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en-US/Default.aspx

Each Respondent must disclose any existing or potential conflict of interest relative to the performance of the requirements of this RFP. **Examples of potential conflicts of interest may include an existing business or personal relationship between the Respondent, its principal, or any affiliate or subcontractor with the County or any other entity or person involved in any way with the project that is subject to this RFP**. Similarly, any personal or business relationship between the Respondent, the principals, or any affiliate or subcontractor with any employee, or official of the County or its suppliers must be disclosed. Any such relationship that might be perceived or represented as a conflict must be disclosed. Failure to disclose any such relationship or reveal personal relationships with the County employees or officials may be cause for termination.

The County will decide if an actual or perceived conflict should result in Proposal disqualification.

By submitting a Proposal in response to this RFP, all Respondents affirm they have not given, nor intend to give, at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a the County public servant or any employee, official or representative of same, in connection with this procurement.

Each Respondent must provide a Conflict of Interest Statement with their Proposal Package. Package may be deemed incomplete without this form.

2.6 CERTIFICATE OF INTERESTED PARTIES – FORM 1295

As of January 1, 2016, all Respondents are responsible for complying with the Texas Government Code, Section 2252.908. The law states that the County may not enter into certain contracts with a Respondent unless the Respondent submits a disclosure of interested parties to the County at the time the Respondent submits the signed contract. The law applies only to a contract of the County on or after January 1, 2016 that either:

A. Requires an action or vote by the Commissioners Court before the contract may be signed (all contracts that fall under the jurisdiction of the Commissioners Court approval, such as contracts resulting from an Initiation for Bid (IFB), RFP, Request for Qualifications (RFQ), etc., excluding,

but not limited to, certain Juvenile Service contracts, contracts funded with Sheriff's seized fun monies, etc.); or

B. Has a value of at least $1,000,000.

By January 1, 2016, the Texas Ethics Commission will make available on its website, a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

A Respondent must:

A. Use the online application to process the required information on Form 1295.

B. Print a copy of the form which will contain a unique certification number.

C. An authorized agent of the Respondent must sign the printed copy of the form.

D. Have the form notarized.

E. File the completed Form 1295 and certification of filing (scanning and emailing form is sufficient) with Williamson County Purchasing Agent at the time the signed Contract is submitted for approval.

After the Commissioners Court award of the contract, the County shall notify the Texas Ethics Commission, using the Texas Ethics Commission's filing application, of the receipt of the filed Form 1295 and certification of filing not later than the 30th day after the date the contract binds all parties to the contract. The Texas Ethics Commission will post the completed Form 1295 to its website within seven business days after receiving notice from the County.

2.7 PROPOSAL SUBMITTAL DEADLINE

The Proposal is due no later than the submittal date and time set forth in the Public Announcement and General Information listed in this RFP package. Contents of each Proposal shall be submitted in accordance with this RFP.

2.8 ETHICS

The Respondent shall not accept or offer gifts or anything of value, nor enter into any business arrangement with any employee, official or agent of the County.

2.9 DELIVERY OF PROPOSALS

The County uses BidSync to distribute and receive bids and Proposals. It is preferred that Proposals be submitted electronically through BidSync; however, Respondents can submit a hard copy.

Refer to www.bidsync.com for further information on how to submit electronically.

If mailed or delivered in person, Proposal and Proposal Addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed in this RFP package, to:

Williamson County Purchasing Department

Attn: **Proposal Name and Number**
901 South Austin Avenue
Georgetown, Texas 78626

Also, all Respondents should list their Name and Address, and the Date of the Proposal opening on the outside of the box or envelope and note "Sealed Proposal Enclosed." Williamson County will not accept any Proposals after the submittal deadline, and shall return such Proposals unopened to the Respondent. The County will not accept any responsibility for Proposals being delivered by third party carriers.

Proposals will be opened publicly; however, in a manner to avoid public disclosure of contents, only names of Respondents will be read aloud: no pricing will be announced at the opening.

SECTION 3 - INSTRUCTIONS AND GENERAL REQUIREMENTS

3.1 INSTRUCTIONS

Read this document carefully, and follow all instructions and requirements. All Respondents are responsible for fulfilling all requirements and specifications. Be sure to have a clear understanding of this RFP.

General requirements apply to all advertised RFPs; however, these may be superseded, in whole or in part, by the proposal specifications, Addenda and modifications issued as a part of this RFP. Be sure your Proposal package is complete.

3.2 AMBIGUITY, CONFLICT, OR OTHER ERRORS IN THIS RFP

If a Respondent discovers any ambiguity, conflict, discrepancy, omission or other error in this RFP, the Respondent shall immediately notify the County Purchasing Department of such error in writing and request modification or clarification of the document.

Modifications will be made by issuing Addenda. If the Respondent fails to notify the County prior to the date and time fixed for submission of Proposals of an error or ambiguity in the RFP known to the Respondent, or an error or ambiguity that reasonably should have been known to the Respondent, then the Respondent shall be deemed to have waived the error or ambiguity or its later resolution.

The County may also modify the RFP, no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals, by issuance of an Addendum. All Addenda will be numbered consecutively, beginning with one (1).

3.3 NOTIFICATION OF MOST CURRENT ADDRESS

All Respondents in receipt of this RFP shall notify the Williamson County Purchasing Department of any address changes, contact person changes, and/or telephone number changes no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals.

3.4 SIGNATURE OF RESPONDENT

A Transmittal Letter, which shall be considered an integral part of the Proposal as stated in Section 2.3, Transmittal Letter, shall be signed by an individual who is authorized to bind the Respondent contractually.

A. If the Respondent is a Corporation or Limited Liability Company, the legal name of the Corporation or Limited Liability Company shall be provided together with the signature of the officer or officers authorized to sign on behalf of such entity.

B. If the Respondent is a General Partnership, the true name of the firm shall be provided with the signature of each partner authorized to sign.

C. If the Respondent is a Limited Partnership, the name of the Limited Partner's General Partner shall be provided with the signature of the officer authorized to sign on behalf of the General Partner.

D. If the Respondent is a Sole Proprietor(s) (individual), each Sole Proprietor(s) shall sign.

E. If signature is by an agent, other than the Sole Proprietor(s) or an officer of a Corporation, Limited

Liability Company, General Partner or a member of a General Partnership, a power of attorney equivalent document must be submitted to the Williamson County Purchasing Department.

3.5 ASSUMED BUSINESS NAME

If the Respondent operates business under an Assumed Business Name, the Respondent must have file with the Williamson County Clerk a current Assumed Name Certificate and provide a file marked copy of same prior to contract award.

3.6 ECONOMY OF PRESENTATION

Proposals should not contain promotional or display materials, except as they may directly answer in whole or in part questions contained in the RFP. Such exhibits shall be clearly marked with the applicable reference number of the question in the RFP. Proposals must address the technical requirements as specified in the RFP. All questions posed by the RFP must be answered concisely and clearly. Proposals that do not address each criterion may be, at the sole discretion of the County, rejected and not considered.

3.7 PROPOSAL OBLIGATION

The contents of the RFP, Proposal, and any clarification thereof submitted by the Successful Respondent shall become part of the contractual obligation and incorporated by reference into the Contract and any Ensuing Agreement(s).

3.8 COMPLIANCE WITH RFP SPECIFICATIONS

It is intended that this RFP describe the requirements and the Proposal format in sufficient detail to secure comparable Proposal. Failure to comply with all provisions of the RFP may, at the sole discretion of the County, result in disqualification.

3.9 EVALUATION

The County reserves the right to use all pertinent information (also learned from sources other than disclosed in the RFP process) that might affect the County's judgment as to the appropriateness of award to the best evaluated Respondent. This information may be appended to the Proposal evaluation process results. Information on a Respondent from reliable sources, and not within the Respondent Proposal, may also be noted and made part of the evaluation file. The County shall have sole discretion for determining the reliability of the source. The County reserves the right to conduct written and/or oral discussions/interviews after the Proposal opening. The purpose of such discussions/interviews is to provide clarification and/or additional information to make an award that is in the best interest of the County.

3.10 WITHDRAWAL OF PROPOSAL

The Respondent may withdraw its Proposal by submitting a written request with the company letterhead and the signature of an authorized individual, as described in Section 3.4, Signature of Respondent, to the Williamson County Purchasing Department any time prior to the submission deadline.

The Respondent may submit a new Proposal prior to the deadline. Alterations of the Proposal in any manner will not be considered if submitted after the deadline. Withdrawal of a Proposal after the deadline will be subject to written approval of the Williamson County Purchasing Agent.

3.11 RESPONSIBILITY

It is expected that a Respondent will be able to affirmatively demonstrate responsibility. A prospective Respondent should be able to meet the following requirements:

A. Have adequate financial resources, or the ability to obtain such resources as required;
B. Be able to comply with the required or proposed delivery schedule;
C. Have a satisfactory record of performance that can be determined thru references provided; and
D. Be otherwise qualified and eligible to receive an award.

The County may request representation and other information sufficient to determine the Respondent ability to meet these minimum standards listed above.

3.12 PURCHASE ORDERS

If required by the Williamson County Purchasing Department, a purchase order(s) may be generated to the Successful Respondent for goods and/or services. If a purchase order is issued, the purchase order number must appear on all itemized invoices and/or requests for payment.

3.13 SILENCE OF SPECIFICATIONS

The apparent silence of any RFP specifications as to any detail or to the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

3.14 REFERENCES

Respondents shall furnish a list of contracts where similar responsibilities and goods and/or services have been required and/or performed for the past five (5) years, to include names, titles, phone numbers and email addresses of reference contacts, contract numbers and dates of performance.

Also, Respondents shall include a list of any contracts that have been cancelled or terminated within the last five (5) years, along with an explanation of the cancellation and the names, email address and phone number of a reference person with that institution.

The County may contact some or all of the references in order to determine the Respondent performance record on work similar to that described in this RFP. The County reserves the right to contact references other than those provided in the response and to use the information gained from them in the evaluation process.

References should be provided in accordance with this RFP. Proposal may not be deemed complete without the inclusion of requested references.

SECTION 4 - TERMS AND CONDITIONS

4.1 VENUE AND GOVERNING LAW

The Respondent hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this RFP, the Contract and any Ensuing Agreement(s), shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this RFP, the Contract and any Ensuing Agreement(s) is governed by the laws of the United States, this RFP, the Contract and any Ensuing Agreement(s) shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

4.2 INCORPORATION BY REFERENCE AND PRECEDENCE

A. The Contract shall be derived from the RFP and its Addenda (if applicable), and the Respondent Proposal. In the event of a dispute under the Contract, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The RFP and its Addenda (if applicable); and

   2. The Respondent's Proposal.

B. In the event the County requires that an Ensuing Agreement be executed following award and a dispute arises between the terms and conditions of the Ensuing Agreement, the RFP and its Addenda (if applicable), and the Respondent's Proposal, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The terms and conditions of the Ensuing Agreement;

   2. The RFP and its Addenda; and

   3. The Respondent's Proposal.

4.3 OWNERSHIP OF PROPOSAL

Each Proposal shall become the property of the County upon submittal and will not be returned to Respondents unless received after the submittal deadline.

4.4 DISQUALIFICATION OF RESPONDENT

Upon signing and submittal of the Proposal, a Respondent offering to sell supplies, materials, services, or equipment to the County, certifies that the Respondent has not violated the antitrust laws of the State of Texas codified in Business & Commerce Code, Section 15.01, or the Federal Antitrust Laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged such line of business. Any or all Proposals may be rejected if the County believes that collusion exists among the Respondents.

4.5 FUNDING

The County intends to budget and make sufficient funds available and authorize funds for expenditure to finance the costs of the Contract. All Respondents understand and agree that the County's payment of

amounts under the Contract shall be contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to make payments under this Contract.

4.6 ASSIGNMENT, SUCCESSORS AND ASSIGNS

The Successful Respondent may not assign, sell, or otherwise transfer the Contract or any other rights or interests obtained under the Contract without written permission of the Williamson County the Commissioners Court. The Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the contracting parties hereto and their respective successors and permitted assigns.

4.7 IMPLIED REQUIREMENTS

Products or services not specifically described or required in the RFP, but are necessary to provide the functional capabilities described by the Respondent, shall be implied and deemed to be included in the Proposal.

4.8 TERMINATION

A. **Termination for Cause:** The County reserves the right to terminate the Contract and/or any Ensuing Agreement(s) for default if the Successful Respondent breaches any of the Proposal specifications, terms and conditions, including warranties of the Respondent, if any, or if the Successful Respondent becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies the County may have at law or equity or as may otherwise be provided hereunder. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all other requirements to the County's satisfaction, and/or to meet all other obligations and requirements.

B. **Termination for Convenience:** The County may terminate the Contract and/or any Ensuing Agreement(s) for convenience and without cause or further liability, upon no less than thirty (30) calendar days written notice to the Successful Respondent. The County reserves the right to extend this period if it is in the best interest of the County. In the event the County exercises its right to terminate without cause, it is understood and agreed that only the amounts due to the Successful Respondent for goods, commodities and/or services provided and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for the County's termination for convenience.

4.9 NON-PERFORMANCE

It is the objective of the County to obtain complete and satisfactory performance of the requirements set forth herein. In addition to any other remedies available at law, in equity or that may be set out herein, failure to perform may result in a deduction of payment equal to the amount of the goods and/or services that were not provided and/or performed to the County's satisfaction.

In the event of such non-performance, the County shall have the right, but shall not be obligated, to complete the services itself or by others and/or purchase the goods from other sources. If the County elects to acquire the goods or perform the services itself or by others, pursuant to the foregoing, the Successful Respondent shall reimburse the County, within ten (10) calendar days of demand, for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting the nonperformance which the Successful Respondent fails to meet pursuant to the requirements set out herein. In the event the Successful Respondent refuses to reimburse the County as set out in this provision, the County shall have the right to deduct such reimbursement amounts from any amounts that may be then owing or that may become owing in the future to the Successful Respondent.

4.10 PROPRIETARY INFORMATION AND THE TEXAS PUBLIC INFORMATION ACT

All material submitted to the County shall become public property and subject to the Texas Public Information Act upon receipt. If a Respondent does not desire proprietary information in the Proposal to be disclosed, each page must be clearly identified and marked proprietary at time of submittal or, more preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary. Failure to clearly identify and mark information as being proprietary as set forth under this provision will result in all unmarked information being deemed non-proprietary and available to the public. For all information that has not been clearly identified and marked as proprietary by the Respondent, the County may choose to place such information on the County's website and/or a similar public database without obtaining any type of prior consent from the Respondent.

The County will, to the extent allowed by law, endeavor to protect from public disclosure the information that has been identified and marked as proprietary. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General.

To the extent, if any, that any provision in this RFP or in the Respondent's Proposal is in conflict with Texas Government Code, Chapter 552, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood, and agreed, that the County, and its officers and employees, may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to the County as to whether or not the same are available to the public. It is further understood that that the County, and its officers and employees, shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that the County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to the County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

4.11 RIGHT TO AUDIT

The Successful Respondent agrees that the County or its duly authorized representatives shall, until the expiration of three (3) years after termination or expiration of the services to be performed, have access to and the right to examine and photocopy any and all books, documents, papers and records of the Successful Respondent, which are directly pertinent to the services to be performed or goods to delivered for the purposes of making audits, examinations, excerpts and transcriptions. The Successful Respondent agrees that the County shall have access during normal working hours to all necessary facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give the Successful Respondent reasonable advance notice of intended audits.

4.12 TESTING AND INSPECTIONS

The County reserves the right to inspect and test equipment, supplies, materials and goods for quality and compliance with this RFP, and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the County can deem the Respondent to be in breach and terminate the Contract and/or any Ensuing Agreement(s).

4.13 PROPOSAL PREPARATION COSTS

The cost of developing Proposals is the sole responsibility of the Respondents and shall not be charged to the County. There is no expressed or implied obligation for the County to reimburse the Respondents for any expense incurred in preparing a Proposal in response to this RFP and the County will not reimburse the Respondents for such expenses.

4.14 INDEMNIFICATION

The Successful Respondent shall indemnify, defend and save harmless, the County, its officials, employees, agents and agent's employees from, and against, all claims, liability, and expenses including reasonable attorneys' fees, arising from activities of the Respondent, its agents, servants or employees, performed hereunder that result from the negligent act, error, or omission of the Respondent or any of the Respondent's agents, servants or employees, as well as all claims of loss or damage to the Respondent's and the County's property, equipment, and/or supplies.

Furthermore, the County, its officials, employees, agents and agents' employees shall not be liable for damages to the Successful Respondent arising from any act of any third party, including, but not limited to, theft. The Successful Respondent further agrees to indemnify, defend and save harmless, the County from its officials, employee, agents and agents' employees against all claims of whatever nature arising from any accident, injury, or damage whatsoever, caused to any person, or the property of any person, occurring in relation to the Successful Respondent's performance of any services requested hereunder during the term of the Contract and/or any Ensuing Agreement(s).

The Successful Respondent shall timely report all claims, demands, suits, actions, proceedings, liens or judgements to the County and shall, upon the receipt of any claim, demand, suit, action, proceeding, lien or judgement, not later than the fifteenth (15th) day of each month; provide the County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of the County required by the Successful Respondent in the defense of each matter. The Successful Respondent's duty to defend, indemnify and hold the County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of the Contract and/or any Ensuing Agreement(s), unless otherwise agreed by the County in writing. The provisions of this section shall survive the termination of the Contract and shall remain in full force and effect with respect to all such matters no matter when they arise.

In the event of any dispute between the parties, as to whether a claim, demand, suit, action, proceeding, lien or judgement, that appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of the County, the Respondent shall nevertheless fully defend such claim, demand, suit or action, proceeding, lien or judgement, until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of the Respondent are not an issue in the matter.

The Successful Respondent's indemnification shall cover, and the Successful Respondent agrees to, indemnify the County, in the event the County is found to have been negligent for having selected the Successful Respondent to perform the work described in this request. The provision by the Successful Respondent of insurance shall not limit the liability of the Successful Respondent under the Contract and/or any Ensuing Agreement(s).

4.15 WAIVER OF SUBROGATION

The Successful Respondent and the Successful Respondent's insurance carrier waive any and all rights whatsoever with regard to subrogation against the County as an indirect party to any suit arising out of personal or property damages resulting from the Respondent's performance under this Contract and any Ensuing Agreement(s).

4.16 RELATIONSHIP OF THE PARTIES

The Successful Respondent shall be an independent contractor and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions herein which may appear to give the County the right to direct the Successful Respondent as to details of doing work herein covered, or to exercise a measure of control over the work, shall be deemed to mean that the Successful Respondent shall follow the desires of the County in the results of the work only. The County shall not retain or have the right to control the Successful Respondent's means, methods or

details pertaining to the Successful Respondent's performance of the work. The County and the Successful Respondent hereby agree and declare that the Successful Respondent is an independent contractor and as such meets the qualifications of an "Independent Contractor" under Texas Workers Compensation Act, Texas Labor Code, Section 406.141, that the Successful Respondent is not an employee of the County, and that the Successful Respondent and its employees, agents and subcontractors shall not be entitled to workers compensation coverage or any other type of insurance coverage held by the County.

4.17 SOLE PROVIDER

The Successful Respondent agrees and acknowledges that it shall not be considered a sole provider of the goods and/or services described herein and that the County may contract with other providers of such goods and/or services if the County deems, at its sole discretion, that multiple providers of the same goods and/or services will serve the best interest of the County.

4.18 FORCE MAJEURE

If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

4.19 SEVERABILITY

If any provision of this RFP, the Contract or any Ensuing Agreement(s) shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision thereof, but rather the entire RFP, Contract or any Ensuing Agreement (s) will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this RFP, the Contract or any Ensuing Agreement(s) is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this RFP, the Contract or any Ensuing Agreement(s) and be deemed to be validated and enforceable.

4.20 EQUAL OPPORTUNITY

Neither party shall discriminate against any employee or applicant for employment because of race, color, sex, religion or national origin.

4.21 NOTICE

Any notice to be given shall be in writing and may be distributed by personal delivery, or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

The County: Williamson County Purchasing Department
Attn: Purchasing Agent
901 South Austin Avenue
Georgetown, Texas 78626

The Respondent: Address set out in Respondent's Transmittal Letter

Notices given in accordance with this provision shall be effective upon (1) receipt by the party to which notice is given, or (2) on the third (3rd) calendar day following mailing, whichever occurs first.

4.22 SALES AND USE TAX EXEMPTION

The County is a body, corporate and politic, under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code, Section 151.309, as amended, and the services and/or goods subject hereof are being secured for use by the County.

4.23 COMPLIANCE WITH LAWS

The County and the Successful Respondent shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any Ensuing Agreement(s), including, without limitation, Workers' Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the Successful Respondent shall furnish the County with certification of compliance with said laws, statues, ordinances, rules, regulations, orders, and decrees above specified.

4.24 INCORPORATION OF EXHIBITS, APPENDICES AND ATTACHMENTS

All of the Exhibits, Appendices and Attachments referred to herein are incorporated by reference as if set forth verbatim herein. Any conflicting terms in the Contract documents will be resolved at the sole discretion of the Commissioners Court.

4.25 NO WAIVER OF IMMUNITIES

Nothing herein shall be deemed to waive, modify or amend any legal defense available at law or in equity to the County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. The County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

4.26 NO WAIVER

The failure or delay of any party to enforce at any time or any period of time any of the provisions of this RFP, the Contract or any Ensuing Agreement(s) shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

4.27 CURRENT REVENUES

The obligations of the parties under the Contract and any Ensuing Agreement(s) do not constitute a general obligation or indebtedness of the County for which the County is obligated to levy, pledge, or collect any of taxation. It is understood and agreed that the County shall have the right to terminate the Contract and any Ensuing Agreement(s) at the end of any the County fiscal year if the governing body of the County does not appropriate sufficient funds as determined by the County's budget for the fiscal year in question. The County may effect such termination by giving written notice of termination to t Successful Respondent at the end of its then-current fiscal year.

4.28 BINDING EFFECT

This Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the parties and their respective permitted assigns and successors.

4.29 ASSIGNMENT

The Successful Respondent's interest and duties hereunder may not be assigned or delegated to a third party without the express written consent of the County.

4.30 SAFETY

The Successful Respondent is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with any services to be provided hereunder. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

4.31 GENERAL OBLIGATIONS AND RELIANCE

The Successful Respondent shall perform all services and/or provide all goods, as well as those reasonably inferable and necessary for completion and provision of services and/or goods required hereunder. The Successful Respondent shall keep the County informed of the progress and quality the services. The Successful Respondent agrees and acknowledges that the County is relying on the Successful Respondent's represented expertise and ability to provide the goods and/or services described herein. The Successful Respondent agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of the County in accordance with the County's requirements and procedures. The Successful Respondent's duties, as set forth herein, shall at no time be in any way diminished by reason of any approval by the County, nor shall the Successful Respondent be released from any liability reason of such approval by the County, it being understood that the County at all times is ultimately relying upon the Successful Respondent's skill and knowledge in performing the services and providing any goods required hereunder.

4.32 CONTRACTUAL DEVELOPMENT

The Commissioners Court may award the Contract on the basis of the initial Proposals received, without any further or additional discussions. Therefore, each initial Proposal should contain the Respondent best terms and offer. The contents of the RFP and the selected Proposal will become an integral part of the Contract, but may be modified, at Williamson County's sole discretion, by provisions of an Ensuing Agreement. Therefore, the Respondent must agree to inclusion in an Ensuing Agreement of t Proposal specifications, terms and conditions of this RFP. Williamson County may, at its discretion, opt to conduct further discussions with responsible offerors and request the highest ranked firm's Best and Final Offer (BAFO).

4.33 ENTIRE AGREEMENT

The Contract and any Ensuing Agreement(s) shall supersede all prior Agreements, written or oral between the Successful Respondent and the County and shall constitute the entire Agreement and understanding between the parties with respect to the services and/or goods to be provided. Each of the provisions herein shall be binding upon the parties and may not be waived, modified, amended or altered, except by writing signed by the Successful Respondent and the County.

4.34 SURVIVABILITY

All applicable agreements that were entered into between the Successful Respondent and the County, under the terms and conditions of the Contract and/or any Ensuing Agreement(s), shall survive the expiration or termination thereof for ninety (90) days unless a new contract has been awarded.

The County may exercise, by written notice to the Successful Respondent no later than ten (10) calendar days of the Contract expiration, this clause for emergency cases only.

4.35 PAYMENT

The County's payment for goods and services shall be governed by the Texas Government Code, Chapter 2251. An invoice shall be deemed overdue the thirty-first (31st) day after the later of the following:

A. The date the County receives the goods under the Contract;
B. The date the performance of the service under the Contract is completed; or
C. The date the Williamson County Auditor receives an invoice for the goods or services.

Interest charges for any overdue payments shall be paid by the County in accordance with Texas Government Code, Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of the County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one (1) percent and the prime rate published in the Wall Street Journal on the first (1st) day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by the Successful Respondent, the County shall notify the Successful Respondent of the error not later than the twenty-first (21st) day after the date the County receives the invoice. If the error is resolved in favor of the Successful Respondent, the Successful Respondent shall be entitled to receive interest on the unpaid balance of the invoice submitted by the Successful Respondent beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, the Successful Respondent shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by the Texas Government Code, Chapter 2251, if the corrected invoice is not paid by the appropriate date.

As a minimum, invoices shall include:

A. Name, address, and telephone number of the Successful Respondent and similar information in the event the payment is to be made to a different address.

B. The County Contract, Purchase Order.

C. Identification of items or service as outlined in the Contract.

D. Quantity or quantities, applicable unit prices, total prices and total amount.

E. Any additional payment information which may be called for by the Contract.

Payment inquiries should be directed to the following address:

Williamson County Auditor's Office, Accounts Payable Department
Email: accountspayable@wilco.org
Phone: 512-943-1500

4.36 CONTRACTUAL FORMATION AND ENSUING AGREEMENT

The RFP and the Respondent's Proposal, when properly accepted by the Commissioners Court, shall constitute a Contract equally binding between the Successful Respondent and the County. The Successful Respondent may be required by Williamson County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and Respondent's Proposal.

4.37 LEGAL LIABILITY INFORMATION

The Successful Respondent shall disclose all legal liability information by listing any pending litigation anticipated litigation that your firm is involved in including, but not limited to, potential or actual legal matters with private parties and any local, state, federal or international governmental entities. The County reserves the right to consider legal liability information in the recommendation of any proposed contract to the Commissioners Court.

4.38 CONFIDENTIALITY

Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

4.39 INCLEMENT WEATHER

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a Proposal submission deadline, the Proposal closing will automatically be postponed until the next business day the County is open. If inclement weather conditions or any other unforeseen event causes delays in carrier service operations, the County may issue an Addendum to all known Respondents interested in the project to extend the deadline. It will be the responsibility of the Respondent to notify the County of their interest in the project if these conditions are impacting their ability to turn in a submission within the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

4.40 AIR QUALITY

In determining the overall best Proposal, the County may, to the extent applicable, exercise the option granted to local governments under the Texas Local Government Code, Section 271.907.

This option allows the County to evaluate Proposals and give preference to goods and/or services of Respondent that demonstrates that the Respondent meets or exceeds any and all state or federal environmental standards, including voluntary standards, relating to air quality. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. All Respondents are expected to meet all mandated state and federal air quality standards.

4.41 COOPERATIVE PURCHASING PROGRAM

During the term of the Contract resulting from this RFP, the County would like to afford the same prices, terms and conditions to other political subdivisions or public entities. Another entity's participation in the Contract resulting from this RFP is subject to a properly authorized Purchasing Cooperative Inter-local Agreement (ILA) with the County. Any liability created by purchase orders issued against the Contract shall be the sole responsibility of the governmental agency placing the order.

4.42 CONFIDENTALITY

The Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

Supplier: **MAO Pharmacy**

Proposal References

List the last three (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this RFP package, were recently provided by Respondent.

Reference 1

Client Name: **Cameron County Jail**

Location: **Olmito, Texas**

Contact Name: **Dean Garza**

Title: **HSA**

Phone: **956-465-8888**

E-mail **erika.cardenas@co.cameron.tx.us**

Contract Date To: **2008**

Contract Date From: **Present**

Contract Value: $ **$500,000**

Scope of Work:

Pharmaceutical Services

Reference 2

Client Name: **Northern Neck Regional Jail**

Location: **Warsaw, VA**

Contact Name: **Ted Hull**

Title: **Superintendent**

Phone: **804-333-6419**

E-mail **ted@nnrj.state.va.us**

Contract Date To: **2003**

Contract Date From: **Present**

Contract Value: $ **$350,000**

Scope of Work:

Pharmaceutical Services

Reference 3

Client Name:	Location:
Henrico County Sheriff's Office	**Richmond, VA**

Contact Name:	Title:
Mike Wade	**Sheriff**

Phone:	E-mail
804-501-5860	**wad52@co.henrico.va.us**

Contract Date To:	Contract Date From:	Contract Value: $
2000	**Present**	**$1,000,000**

Scope of Work:

Pharmaceutical Services

Supplier: **MAO Pharmacy**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

This questionnaire is being filed in accordance with chapter 176 of the Local Government Code by a person doing business with the governmental entity.

By law this questionnaire must be filed with the records administrator of the local government not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1	**Name of person doing business with local governmental entity.**	**None**
2	☐	**Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than September 1 of the year for which an activity described in Section 176.006(a), Local Government Code, is pending and not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)
3	**Describe each affiliation or business relationship with an employee or contractor of the local governmental entity who makes recommendations to a local government officer of the local governmental entity with respect to expenditure of money.**	**None**
4	**Describe each affiliation or business relationship with a person who is a local government officer and who appoints or employs a local government officer of the local governmental entity that is the subject of this questionnaire.**	**None**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

Page 2

5	**Name of local government officer with whom filer has affiliation or business relationship.** **(Complete this section only if the answer to A, B, or C is YES.)** This section, item 5 including subparts A, B, C & D, must be completed for each officer with whom the filer has affiliation or other relationship. Attach additional pages to this Form CIQ as necessary. A. Is the local government officer named in this section receiving or likely to receive taxable income from the filer of the questionnaire? ☐ Yes ☑ No B. Is the filer of the questionnaire receiving or likely to receive taxable income from or at the direction of the local government officer named in this section AND the taxable income is not from the local governmental entity? ☐ Yes ☑ No C. Is the filer of this questionnaire affiliated with a corporation or other business entity that the local government officer serves as an officer or director, or holds an ownership of 10 percent or more? ☐ Yes ☑ No D. Describe each affiliation or business relationship. **None** **6. Describe any other affiliation or business relationship that might cause conflict of interest:** **None**

7	**Hunter Hoggatt**	**09/18/2017**
	Signature of person doing business with the governmental entity	Date
	Signature not required if completing in BIDSYNC electronically.	

Supplier: **MAO Pharmacy**

PROPOSAL AFFIDAVIT

This form must be completed, signed, notarized and returned with Proposal package

The undersigned certifies that the RFP and the Respondent's Proposal have been carefully reviewed and are submitted as correct and final. Respondent further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Proposal, and upon the conditions contained in the RFP.

I hereby certify that the foregoing Proposal has not been prepared in collusion with any other Respondent or other person or persons engaged in the same line of business prior to the official opening of this Proposal. Further, I certify that the Respondent is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Proposal on, or to influence any person or persons to submit a Proposal or not to submit a Proposal thereon."

Name of Respondent:	**Westwood Pharmacy**
Address of Respondent:	**5823 Patterson Avenue, Richmond, VA 23226**
Email:	**hunter.hoggatt@westwoodpharmacy.com**
Telephone:	**(804) 288-1933**
Printed Name of Person Submitting Affidavit:	**Hunter Hoggatt**
Signature of Person Submitting Affidavit:	**Hunter Hoggatt**

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Proposal will in no way have a negative impact on the County's evaluation of the Proposal.

☑	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Respondent agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, , (*Name of Signer*) am a duly authorized officer of/agent for (*Name of Respondent*) and have been duly authorized to execute the foregoing on behalf of the said (*Name of Respondent*).

SUBSCRIBED AND SWORN to before me by the above-named
on this the day of , 20.

Notary Public in and for

The State of

The County of

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

Supplier: **MAO Pharmacy**

PRICE SHEET

The undersigned Respondent, having become familiar with this RFP agrees to furnish the services and/or goods in accordance with this RFP at the following rate(s).

Please provide AWP Plus/Minus % Discount in blanks provided below and complete the 2 pages of Drug Brand/Generic price sheets with Per/Capsule-Pill pricing.

Proposer shall provide current Average Wholesale Price (AWP) minus a percentage (%) discount plus a dispensing fee (if applicable).

BRAND NAME MEDICATIONS

Minus Percent (%) Discount 23

Dispensing Fee (if applicable) None

GENERIC MEDICATIONS

Minus Percent (%) Discount 94.5

Dispensing Fee (if applicable) None

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
VALPROIC ACID 250MG CAP	**$0.79**	**$0.06**
HYDROXYZINE PAM 50MG CAP	**$0.24**	**$0.02**
BUPROPION 100MG TAB	**$0.82**	**$0.06**
LITHIUM CARB 300MG CAP	**$0.12**	**$0.01**
QUETIAPINE 100MG TAB	**$5.28**	**$0.38**
LACTULOSE 10GM/15 SOL	**$0.06**	**$0.00**
ANTI-DANDRUF 1%	**$0.02**	**$0.00**
HYDROCERIN LOT	**$0.01**	**$0.00**
GERI-MOX SUS	**$0.01**	**$0.00**
DIPHENHYDRAMINE 25MG CAP	**$0.05**	**$0.00**
SUDOGEST 60MG TAB	**$0.03**	**$0.00**
DIPHENHYDRAMINE 50MG CAP	**$0.07**	**$0.00**
AMOXICILLIN 500MG CAP	**$0.29**	**$0.02**
QUETIAPINE 300MG TAB	**$13.12**	**$0.94**
NAPROXEN 500MG TAB	**$0.92**	**$0.07**
AMITRIPTYLINE 25MG TAB	**$0.46**	**$0.03**
TRAMADOL 50MG TAB	**$0.65**	**$0.05**
METFORMIN 500MG TAB	**$0.54**	**$0.04**
HYDROXYZ PAMOATE 25MG CAP	**$0.22**	**$0.02**
POLYETH GLYC 3350 NF POW	**$0.06**	**$0.00**
QUETIAPINE 200MG TAB	**$9.96**	**$0.71**
LISINOPRIL 10MG TAB	**$0.77**	**$0.06**
VENLAFAXINE 75MG TAB	**$0.33**	**$0.02**
HCTZ 25MG TAB	**$0.06**	**$0.00**
BENZTROPINE 1MG TAB	**$0.30**	**$0.02**
METFORMIN 1000MG TAB	**$1.12**	**$0.08**
CITALOPRAM 20MG TAB	**$1.97**	**$0.14**
BENAZEPRIL 10MG TAB	**$0.79**	**$0.06**
TRAZODONE 100MG TAB	**$0.85**	**$0.06**
SMZ/TMP DS 800-160 TAB	**$0.89**	**$0.06**
POLYETH GLYC 3350 NF POW	**$0.06**	**$0.00**
BUPROPION 75MG TAB	**$0.61**	**$0.04**
TRAZODONE 50MG TAB	**$0.62**	**$0.04**
AMLODIPINE 10MG TAB	**$1.82**	**$0.13**

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
QUETIAPINE 300MG TAB	**$13.12**	**$0.94**
ATRIPLA TAB	**$95.76**	**$6.84**
QUETIAPINE 100MG TAB	**$5.28**	**$0.38**
TRUVADA TAB	**$48.28**	**$3.45**
LANTUS 100/ML INJ	**$22.96**	**$1.64**
QUETIAPINE 200MG TAB	**$9.96**	**$0.71**
DULOXETINE 60MG CAP	**$5.93**	**$0.42**
REYATAZ 300MG CAP	**$35.40**	**$2.53**
OLANZAPINE 20MG TAB	**$30.67**	**$2.19**
COMPLERA TAB	**$82.57**	**$5.90**
OLANZAPINE 10MG TAB	**$15.34**	**$1.10**
QUETIAPINE 400MG TAB	**$15.35**	**$1.10**
LATUDA 40MG TAB	**$34.29**	**$2.45**
BUPROPION 100MG TAB	**$0.82**	**$0.06**
DIVALPROEX 500MG ER TAB	**$3.13**	**$0.22**
ABILIFY 10MG TAB	**$24.72**	**$1.77**
VALPROIC ACID 250MG CAP	**$0.79**	**$0.06**
ISENTRESS 400MG TAB	**$21.40**	**$1.53**
CYCLOPHOSPH 25MG TAB	**$7.21**	**$0.51**
INVEGA 9MG TAB	**$35.26**	**$2.52**
OLANZAPINE 5MG TAB	**$9.82**	**$0.70**
LATUDA 20MG TAB	**$34.29**	**$2.45**
OLANZAPINE 15MG TAB	**$23.00**	**$1.64**
HUMULIN R U-100 U-100 INJ	**$13.74**	**$0.98**
INVEGA 3MG TAB	**$23.51**	**$1.68**
VENTOLIN HFA AER	**$2.68**	**$0.19**
ABILIFY 5MG TAB	**$24.72**	**$1.77**
NORVIR 100MG TAB	**$7.92**	**$0.57**
ADVAIR DISKUS 250/50 AER	**$5.57**	**$0.40**
PROMETHAZINE HCL 25MG SUPR	**$13.64**	**$0.97**
EPINEPHRINE 0.3MG 2-PACK	**$190.19**	**$13.59**
INVEGA 6MG TAB	**$23.51**	**$1.68**
XIFAXAN 550MG TAB	**$30.81**	**$2.20**
PERMETHRIN 5% CRM	**$1.56**	**$0.11**
PREZISTA 800MG TAB	**$45.12**	**$3.22**

Correct Rx Pharmacy Services, Inc.

Bid Contact **Ellen H Yankellow**
eyankellow@correctrxpharmacy.com
Ph 443-557-0100
Fax 443-557-0333

Address **1352 Charwood Road, Suite C**
Hanover, MD 21076

Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch.	Docs
1708-185--01-01	Please attach all documents to this line	**Supplier Product Code:**	**First Offer -**	1 / each	**Y**	**Y**
				Supplier Total	$0.00	

Correct Rx Pharmacy Services, Inc.

Item: **Please attach all documents to this line**

Attachments

Correct Rx Pharmacy Services 1708-185 Williamson County.pdf

Texas Class ES Pharmacy.pdf

Texas Wholesale License.pdf

SHERIFF
WILLIAMSON COUNTY
STATE OF TEXAS
TEXAS

CorrectRx
PHARMACY SERVICES

September 18, 2017

Williamson County, Texas Solicitation 1708-185 Pharmaceutical Service and Supplies

CONTACT US

Web: www.correctrxpharmacy.com
Email: eyankellow@correctrxpharmacy.com

CorrectRx
PHARMACY SERVICES

TRANSMITTAL LETTER

CorrectRx
PHARMACY SERVICES

1352 Charwood Road, Suite C, Hanover, MD 21076
tel 443.557.0100 *fax* 443.557.0333

September 18, 2017

Williamson County Purchasing Department
Attn.: Pharmaceutical Service and Supplies Solicitation 1708-185
901 South Austin Avenue
Georgetown, Texas 78626

Re: Solicitation 1708-185
Pharmaceutical Services and Supplies

Dear Ms. Fuller:

Correct Rx Pharmacy Services, Inc. (Correct Rx) is pleased to submit our response to the above referenced Bid for the Williamson County Jail (Williamson County). Correct Rx offers a comprehensive pharmacy service designed to enhance savings through competitive pricing structure, innovative operational efficiencies, stellar program management and elite clinical services all designed to provide *undeniable value* to Williamson County.

Correct Rx has a proud record of establishing collaborative relationships with our clients designed to improve patient outcomes while managing overall healthcare costs. Correct Rx's value is created through the active participation of our board certified clinical pharmacists as part of the multidisciplinary healthcare team, detailed transparent reporting and effective program management.

National Experience

Correct Rx is a national leader in institutional pharmacy services, currently serving over 110,000 lives in correctional and juvenile facilities, residential treatment programs and senior care facilities. Correct Rx is licensed in all 50 states and currently provides correctional pharmacy services in 30 states and the District of Columbia.

Texas Experience

More importantly, Correct Rx provides services to these Texas facilities: Big Spring Correctional Center, Central Texas Detention Center, Brooks County Detention, Coastal Bend Detention Center, East Hidalgo Detention Center, Ector County Correctional, Fannin County, Galveston County Jail, Grayson County, Joe Corley Detention Facility, Karnes County Correctional Center, Kinney County, Liberty County, Midland County, Randall County, Reagan County, Reeves County Detention Complex (R3), Rio Grande Detention Center, Val Verde Correctional Facility and Winkler County.

Corporate Location: Correct Rx operates from our headquarters and sole pharmacy location in Hanover, Maryland.

Correct Rx Pharmacy Services, Inc.
1352 Charwood Road, Suite C, Hanover, Maryland 21076
Telephone: 800-636-0501/ 443-557-0100 **Fax:** 443-557-0333

Ownership Type: Correct Rx is a privately held S-Corporation.

Federal Tax ID Number: 75-3111495

Corporate Contact: As the President/CEO and majority owner of Correct Rx Pharmacy Services, Inc., I, Ellen H. Yankellow, am authorized to bind the firm to all statements including service, price and timelines contained in this response. I will be directly involved with any contract negotiations. I am also the individual who may be contacted should any clarifications be necessary and will make certain that all your questions are answered. I will also be responsible for coordinating an oral presentation if requested by Williamson County.

Correct Rx Pharmacy Services, Inc.
1352 Charwood Road, Suite C, Hanover, Maryland 21076
Email: eyankellow@correctrxpharmacy.com
Telephone: (800) 636-0501 ext. 248 **Fax:** (443) 557-0333

Conclusion: At Correct Rx, our goal is to be an indispensable part of your healthcare solution. In our response we have articulated our unique history and understanding through our firsthand experience with providing service to hundreds of facilities similar in size and scope to Williamson County. Correct Rx has focused particular attention on the specific needs of Williamson County today (i.e., clinical expertise, program management, regulatory adherence, cost saving opportunities, innovative solutions, healthcare integration, dependable and reliable delivery, technology, attention to detail, teamwork, integrity, etc.).

Correct Rx's Proposal will be valid for ninety (90) calendar days from September 18, 2017. Correct Rx is confident that our innovative thinking, clinical expertise, compelling holistic approach and attention to detail will provide Williamson County with the ***Best Overall Value*** for pharmacy services. Thank you for the opportunity to submit our proposal and the prospect of beginning a long standing partnership with Williamson County as your pharmacy provider.

Sincerely,

Ellen H. Yankellow

Ellen H. Yankellow, PharmD
President & CEO

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
2017-261940

Date Filed:
09/18/2017

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.
Correct Rx Pharmacy Services, Inc.
Hanover, MD United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.
Williamson County Purchasing Department

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.
Bid 1708-185
Pharmaceutical Service and Supplies - William County Jail

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary
James, Tristani	Hanover, MD United States		X
Molofsky, Jill	Hanover, MD United States		X
Yankellow, Ellen	Hanover, MD United States	X	

5 Check only if there is NO Interested Party. ☐

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

Ellen H. Yankellow
Signature of authorized agent of contracting business entity

RACHAEL ALLEN CAMPBELL NOTARY PUBLIC BALTIMORE COUNTY MD

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said Ellen H. Yankellow, this the 18th day of September, 20 17, to certify which, witness my hand and seal of office.

Rachael Allen Campbell	Notary PUblic
Signature of officer administering oath	Printed name of officer administering oath / Title of officer administering oath

Forms provided by Texas Ethics Commission www.ethics.state.tx.us Version V1.0.3337

CorrectRx
PHARMACY SERVICES

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CorrectRx
PHARMACY SERVICES

EXECUTIVE SUMMARY

Executive Summary

September 18, 2017

Corporate History and Background

Correct Rx was established as a Maryland corporation in 2003. We are a full service pharmacy available 24 hours a day, seven days a week, providing accurate and timely dispensing and delivery, with personalized billing services, while infusing clinical pharmacy throughout the entire company.

Correct Rx is the national leader in institutional and clinical pharmacy filling between 15,000 and 18,000 prescriptions daily (Maryland Pharmacy Permit No: PWO234 / Distributor Permit No: D01558). Headquartered in Maryland; we are strategically located next to BWI airport to service facilities in all time zones. Correct Rx provides services for over 110,000 offenders in more than 250 correctional facilities in the United States. Correct Rx is licensed in all 50 states and currently provides correctional pharmacy services in 30 states and Washington D.C. We provide services for both adults and juveniles in all types of public and private facilities. Correct Rx serves County, State and Federal (US Marshal, ICE, Bureau of Prisons, and Bureau of Indian Affairs) inmates. We have contracts directly with State and County clients as well as subcontractor agreements with nationally recognized institutional healthcare companies and private prison companies.

Texas Experience

More importantly, Correct Rx has a great history of servicing facilities in Texas and we are the current pharmacy provider for these Texas facilities: Big Spring Correctional Center, Central Texas Detention Center, Brooks County Detention, Coastal Bend Detention Center, East Hidalgo Detention Center, Ector County Correctional, Fannin County, Galveston County Jail, Grayson County, Joe Corley Detention Facility, Karnes County Correctional Center, Kinney County, Liberty County, Midland County, Randall County, Reagan County, Reeves County Detention Complex (R3), Rio Grande Detention Center, Val Verde Correctional Facility and Winkler County.

We provide our clients cost savings through operational excellence and cutting edge clinical programs.

Correct Rx's Commitment to Excellence

The Williamson County Sheriff's Office has a long standing tradition of commitment to the citizens of Williamson County. Even further the Williamson County Sheriff's Office is "committed to the high standard of values within Williamson County and continues to provide a high level of service to its citizens." We believe you will find that Correct Rx is perfectly aligned with Williamson County as we employ an evidence-based approach that is outcome driven and designed to reduce costs. We recognize that our patients, many of whom have been underserved, do not have a choice in "who" will provide their constitutional right to healthcare. Our commitment is to provide the same level of care that we would afford our own family members, as it is all a part of our vision of doing things the "Correct Way."

Executive Summary

September 18, 2017

Deliver What We Promise

Correct Rx Pharmacy Services, Inc. (Correct Rx) is proud to offer our response to Bid 1708-185 to provide pharmaceutical service and supplies for the Williamson County Jail (Williamson County). Correct Rx is proposing a comprehensive pharmacy service solution that we believe is tailor made to address the needs of Williamson County in the delivery of correctional healthcare. Correct Rx is offering a detailed plan that features operational efficiencies, technological advances, pharmacy driven clinical services and full program management.

Our proposal is reflective of our best thinking and delineates our compelling holistic methodology to improve patient outcomes while positively impacting your overall healthcare budget. Correct Rx embraces the opportunity to discuss our past and present accomplishments in similar projects and to present the services we are introducing in this proposal. We define success as improved care for the patients under your custody resulting in decreased overall healthcare costs.

Our high level of integrity will reassure Williamson County that you are receiving the best customer service while employing the most cost effective approach to pharmaceutical care in the industry. We believe in doing things the "right way" and will strive to exceed your expectations.

We view ourselves as partners dedicated to providing optimal healthcare services, while being good stewards of the taxpayer's money. More specifically, we are extremely proud of our clinical services in combination with advanced technologies, which we feel differentiate us from our competitors.

Owners/Corporate Directors

Dr. Ellen Yankellow is the President and CEO of Correct Rx and a national leader in the advancement of clinical pharmacy for institutions. In June 2016, Dr. Yankellow was awarded the Bowl of Hygeia in Maryland. An internationally recognized symbol for pharmacy, it is the profession's most prestigious award recognizing pharmacists who possess outstanding records of civic leadership.

"Correct Rx's approach is holistic and the solutions that we are offering are innovative and leading edge. Providing Undeniable Value to our clients; this is the Correct Rx Way".

Dr. Ellen H. Yankellow, President & CEO
Correct Rx Pharmacy Services, Inc.

Jill Molofsky, RPh, CCHP, serves as Vice President and has over 30 years of operational experience providing pharmacy services for institutions all across the country. James Tristani, RPh is head of Purchasing and has 35 years of direct pharmacy business experience.

Executive Summary

September 18, 2017

Correct Rx recently celebrated its 14th anniversary and we are quite proud of our commitment to excellence, reputation for integrity and stellar growth year over year since our inception. Correct Rx has become a strong force in the Correctional Pharmacy Industry. Our ability to take on large pieces of business in an organized manner with no disruption to our clients and the patients they serve has been clearly documented. We have transitioned over 400 facilities in the past 14 years.

This includes statewide systems for the Maryland Department of Public Safety and Correctional Services, Delaware Department of Correction, Idaho Department of Juvenile Corrections, as well as large municipalities like the Philadelphia Prison System and the Atlanta City Jail. We believe it is our years of correctional experience coupled with our attention to detail that have allowed Correct Rx to successfully transition correctional systems large and small. Our clients have been the beneficiary of this organized, experienced approach. Correct Rx is prepared to transition pharmacy services for Williamson County in a manner that is focused on the details and ensures continuity of care.

There is no "generic" for experience. Correct Rx has the real thing.

Company founders Ellen H. Yankellow, PharmD and Jill Molofsky, RPh, CCHP bring years of unrivaled experience, honesty and professionalism to the correctional market. Dedication and training have led us to develop strategies that reduce costs without compromising patient care. Correct Rx has the resources, experience, integrity and commitment to exceed your service expectations. Correct Rx enjoys an excellent reputation for customized service and clinical programs that actually make a difference. Correct Rx even kept several facilities that changed their general medical management configuration but insisted on continuing with Correct Rx for pharmaceuticals because of their high level of satisfaction with our services.

Doing More for Less: The "New Norm"

Correct Rx understands the current state of the economy and the need for fiscal conservatism. State and Federal budgets continue to demand that all of us do more for less. This has become the ***"new norm"*** that we all must learn to navigate and thrive in this environment. Correct Rx is living this ***"new norm"*** every day and we understand the importance of bringing true value to Williamson County through competitive pricing and effective contract and clinical management. We embrace this responsibility as an opportunity to demonstrate our responsiveness to this RFP. Correct Rx knows that your success is our success. To this end, Correct Rx has responded in a myriad of ways including but not limited to the following:

- **Competitive Pricing Model:** Correct Rx is providing aggressive pricing incorporated into a thoughtful and comprehensive service plan that is designed to provide the most advantageous offer to Williamson County and the greatest

savings possible for the citizens of Georgetown, Texas who are ultimately paying the bill.

- **Active Program Management:** Correct Rx provides professional Program Management Services to support the Pharmacy Services Program. Correct Rx has extensive experience in managing statewide and other large correctional systems.

  Correct Rx believes contract management is an essential component of delivering a comprehensive pharmacy services program. We always set a goal of 100% compliance with the terms of the RFP and resultant contract**.** We hold ourselves to high standards and believe that Williamson County deserves this level of integrity. Our approach focuses on fully understanding the requirements of the contract and then providing services that not only meet the standards, but exceed your expectations.

  Our reputation for doing what we promise is well documented. Williamson County will be the recipient of this dependable program management and excellent work ethic. What we promise will in-fact become a reality. We encourage you to call our references to verify this claim. Program management is an active and continuous process.

- **Separation of Administrative and Clinical Program Management:** Each facet of the Correct Rx program is monitored and adjusted as needed to address the ongoing needs of Williamson County. Williamson County will need a partner that is actively managing pharmacy services and responding in real time to the concerns facing the inmates in your care. Correct Rx equally understands the difference between the administrative and clinical role. In order to maximize the impact of our innovative and collaborative clinical role and to ensure absolute contract compliance, Correct Rx is assigning both an Administrative Program Manager and a Clinical Pharmacy Director. While these two positions are interdependent, each will have a distinct role in managing this contract.

- **Administrative Program Manager:** The Administrative Program Manager will ultimately be responsible for ensuring that Correct Rx is providing Williamson County with 100% compliance on the terms in the RFP and resultant contract. One client likened it to having “one belly button to push” or “one neck to strangle” when issues arise. While these are cute sayings, the fact is Williamson County will be well served in knowing they have an identified Correct Rx manager who will be responsive to any and all contractual issues. Correct Rx has assigned Mr. John R. Nattans to serve in this role.

  Mr. Nattans will serve as the primary liaison between Correct Rx and Williamson County. This means that any and all issues, questions, or concerns related to administration, billing, operations, IT, training, CQI, equipment, emergency preparedness, audits, regulatory affairs or contract compliance will be the responsibility of Mr. Nattans to address. Williamson County will simply need to

communicate these issues to Mr. Nattans and he will ensure Correct Rx responds appropriately.

Additionally, Mr. Nattans will ensure that all meetings will be attended as required, that all reports will be furnished in a professional and timely manner that Correct Rx has an active QA and CQI program. Correct Rx always working to find more efficient and innovative operational and administrative solutions.

- **Clinical Pharmacy Director** Given the role of the Administrative Program Manager, the Clinical Pharmacy Director is then freed up to focus 100% on delivering the clinical programs that are not only aligned with Williamson County, but have allowed Correct Rx to distinguish ourselves as the leader of clinical services in the industry. We state this not to be boastful, yet to express our pride in what we have achieved over the past 14 years and to promise this same level of commitment to Williamson County. It starts by assigning the proper resources to implement these services.

- **Highly credentialed clinical pharmacists**. The Correct Rx clinical department is staffed with a team of clinical pharmacists who have earned a Doctorate in Pharmacy (PharmD) and have completed a post graduate residency program. These post graduate residency trained pharmacists will provide Williamson County with a level of competency that is essential when collaborating with your providers. All of our clinical pharmacists are either board certified or are in the process of obtaining this very rigorous certification.

- **Strategic initiative that requires all of our clinical pharmacists to obtain the Certified Correctional Health Professional (CCHP) certification issued by the National Commission on Correctional Health Care (NCCHC) and the Pharmacotherapy Specialist certification issued by the Board of Pharmacy Specialties (BPS).**

  Correct Rx's investment in this level of quality provides Williamson County with not only clinically trained PharmDs but with pharmacists that have a greater understanding of the standards surrounding healthcare in the correctional setting.

- The creation of a **Medication Therapy Management Department**. This department was created to supply essential drug information to Correct Rx's clients and for assisting providers in the proper selection of the most cost effective drug therapy that will result in the best outcome. This department is led by a doctoral trained pharmacist with years of correctional experience who is CCHP certified and possesses a Master of Science in pharmaceutical outcomes and policy in applied pharmacoeconomics from the University of Florida.

- **Pharmacy and Therapeutics (P&T) Committee:** *Not your average P&T.* Correct Rx has considerable experience in managing P&T Committee processes. The P&T Committee is the primary formal link that establishes communications

between the health care practitioners, the pharmacy and Williamson County as it relates to the use of medications for the patients under your care. Correct Rx plays an active and vital role in the P&T meetings to ensure medication costs are well managed. Through the P&T committee we provide continual monitoring of medication use and apply pharmacoeconomic principles in the development of a sound formulary drug list. Correct Rx also mindfully monitors the ever changing drug market, established clinical pathways and treatment protocols so that Williamson County is well informed of best practice and community standards of care.

- **Inspections and Audits** The visits are performed by fully credentialed clinical pharmacists who possess first-hand knowledge of institutional standards and the nuances of the specific facilities serviced. Correct Rx's clinical pharmacists utilize our new audit tool that was designed and implemented specifically for our clients. This tool ensures that our client's medication rooms are in full compliance with all State and Federal regulations including national accrediting bodies (e.g., NCCHC, ACA, and JC) along with facility specific standards, policies and procedures.

- **Forecasting Pharmaceutical Expenditures.** Correct Rx provides ongoing pharmaceutical cost containment forecasting services. This initiative has been fine-tuned over the years since we introduced the service in February 2012. On a regular basis, Correct Rx provides an analysis of current drug market trends. This information is essential to planning your drug budget, controlling medication costs and in determining which medications provide the most value for Williamson County. Managers need forecasting data to make decisions and policy. Correct Rx will partner with you and your medical vendor to help you reach your budgetary goals.

- **Autonomous Technology Solutions.** Correct Rx offers a wide array of IT solutions to include onsite electronic order entry, medication accountability through barcode scanning, and dashboard reporting. Our IT Department is responsible for the ongoing development, implementation and integration of the latest technology as supported by the company's business systems infrastructure, thereby positioning Correct Rx with the ability to meet the needs of Williamson County now and in the future.

- **Barcode Check in System**: The Barcode Medication check-in is fast and creates an additional layer of security to ensure that all ordered medications were received. In addition to providing heightened accountability and verification of receipt, shipment check-in time is reduced dramatically versus the manual process of checking orders against the paper packing list.

- **Web Based Dashboard Reports:** Our Web based reporting system provides Williamson County with instantaneous access to essential utilization data and analysis. This tool is designed to facilitate the push of essential information to all

Correct Rx PHARMACY SERVICES

Executive Summary

September 18, 2017

Williamson County stakeholders to monitor key performance indicators and measure overall analytics.

- **Training and Education – In Person and On Line Training Modules:** Correct Rx is committed to training and education. We have a tried and proven method of on-site training. Starting with the implementation and transition plans to specific medication trainings designed to improve patient care through medication administration including self administration, maintenance, and documentation. Correct Rx has created a high quality series of training videos designed to address pharmacy operations, medication administration and documentation.

- **Medication Administration Training Modules:** These videos are accessible on-line as part of a self-paced comprehensive training module. They are always accessible, which is convenient for scheduling new staff orientation or for those who may wish to view a specific training topic as a refresher. Correct Rx is also always available to answer questions or provide in person trainings specifically designed for the needs of the medical staff.

- **Internal Regulatory Affairs Department** led by a full time licensed attorney. ***Correct Rx will not put Williamson County or Correct Rx in harm's way.*** Correct Rx recognizes that there is increased scrutiny to ensure regulatory compliance, particularly with the unique responsibilities that govern health care, handling of controlled substances, and caring for the safety and welfare of the public. Correct Rx's commitment to promoting strong business ethics and accountability is manifest through its development of a Corporate Compliance and Regulatory Affairs Division. Our focus promotes and monitors the laws, rules and regulations that govern institutional pharmacies and the clients that we serve. Legal and regulatory expertise is critical for operational and clinical programs to comply with the intricate landscape of Federal, State and local legislation. While many organizations have failed to address the issue and view the matter as either unimportant or cost prohibitive, Correct Rx has developed a Regulatory Affairs Department. ***Correct Rx has all of the licenses required to provide pharmacy services as outlined in this Bid***.

  Correct Rx ensures that all work is performed in compliance with all Federal, State, and Contract Specifications, or in their absence, the best practices of the trade. Correct Rx's facility policy and procedures will be customized to comply with institutional policies and directives and is already compliant with all regulatory and credentialing institutions (e.g., BOP, JC, NCCHC, ACA, and DEA).

Executive Summary

September 18, 2017

Innovative Clinical Pharmacy Programs

Correct Rx looks forward to the opportunity to serve Williamson County with our comprehensive pharmacy programs. Correct Rx has a proud record of establishing collaborative relationships with our clients to improve patient outcomes while managing overall healthcare costs.

Creating this ***undeniable value*** has been accomplished through the participation of our board certified clinical pharmacists as part of the multidisciplinary healthcare team and through effective program management. Our clinical pharmacists with the support of our sophisticated corporate clinical department are able to assist at a high level to manage your highest risk patients and disease states in collaboration with the onsite healthcare providers.

Not Comparable to Buying a Fixed Commodity

Attempting to cut costs by decreasing Clinical Services and Program Management actually results in an increase in drug spending and leads to a decrease in the quality of healthcare. Poor healthcare services result in lawsuits, loss of clients, and regulatory investigations (e.g., DOJ, ACLU). Selecting a pharmacy is much more than buying a commodity. Williamson County can rest assured that Correct Rx will not jeopardize care, threaten patient safety or cut corners.

Results are Real and Reproducible

Our programs are designed to maximize savings through operational efficiencies, thorough program management and proven clinical initiatives that result in better outcomes. The results are real and reproducible. Correct Rx is excited to share this data with Williamson County and we encourage you to contact any of our clients as we have built our business by producing outcomes and providing customers with excellent service and cost savings.

Total Pharmaceutical Expenditures – We want to be your partner!

When you increase the quality of clinical services and program management not only do you improve patient care, but you can significantly decrease the total drug cost. Providing quality pharmacy services decreases overall healthcare spending by reducing the need for secondary care, hospitalizations, and offsite transports.

The direction of pharmacy services nationally is one of collaboration, education and therapy management all in an effort to improve outcomes while reducing short and long term costs. Correct Rx's clinical team bolsters healthcare services by providing a real impact on the quantity, selection and mix of drugs being purchased. **Factors such as poor patient compliance, over-ordering, adverse events, and the early discontinuation of medications can increase the quantities of returned**

Executive Summary

September 18, 2017

medications. The success of Correct Rx's clinical programs has been demonstrated in our county, statewide and corporate contracts and we are looking forward to expanding the impact through our partnership with Williamson County.

Cutting Edge Clinical Programs

Correct Rx's clinical programs have set the benchmark and separate us from our competition. Our company was founded on the principal that by providing cutting edge clinical services and initiatives we would be able to improve our client's success in providing healthcare to the offenders under their custody. Our innovative clinical programs improve outcomes and reduce costs. **We have proven it to our customers since our inception in 2003.** Our goal is to achieve the best possible health outcomes and the most cost-effective treatments rather than simply filling orders with the prescribed number of the cheapest pills. No other institutional pharmacy has adopted this service approach, although many claim to offer clinical pharmacy services.

Medications are the most common therapeutic modality in healthcare. A clinical pharmacy program positively impacts the inmate and the medical, mental health, dental, custody and the facility administration teams. Correct Rx is able to achieve significant results because of our established clinical programs and the rigorous credentialing process for our clinical pharmacy team. Correct Rx maintains the opinion that improved outcomes means healthier patients, fewer complications and reduced overall costs to Williamson County.

No Hidden Affiliations or Ownerships

- Correct Rx is not a subsidiary or affiliate of any corporation or other organization.
- Correct Rx has never been suspended, debarred or sanctioned by any agency.
- Correct Rx does not inflate drug prices by owning a wholesaler or FDA repackager.

All discounts reflected in Correct Rx's pricing are actual savings.

Regulatory Compliance

Correct Rx is a full service institutional pharmacy licensed by the Maryland Board of Pharmacy and the DEA. We distribute medications and provide pharmacy services nationwide and are properly licensed in all 50 States. Our licensure allows for the distribution of both patient-specific and non-patient specific medications as well as all the service requirements requested in this Bid and all of the additional services we propose throughout our response. **There have not been any actions taken nor are there any pending against our licensure.** Correct Rx's owners have over 100 years of combined direct pharmacy experience. This experience paired with our dedicated Corporate Compliance and Regulatory Affairs Division means that Williamson County will not be left to navigate the complex and often confusing Federal and state specific

regulations alone. Correct Rx will make certain the pharmacy program at the Williamson County Jail is in full compliance with controlling law.

Further, Correct Rx will ensure that all Federal and State licenses and certificates necessary to legally provide the pharmacy program are obtained and retained under the terms of this contract. Correct Rx is not only proposing to address all of Williamson County's requirements but we currently have a comprehensive pharmacy program in place to fulfill those requirements.

Correct Rx works to keep our clients abreast of the community standards and national and State regulations. For example, some vendors attempt to muddy the waters surrounding licensure and create confusion in the correctional community surrounding which licenses are required by both the facility and the pharmacy to provide services and patient-specific and non-patient specific medications.

As with every service that we provide we are fully transparent as we believe that is the "Correct Way." In short, a Pharmacy is allowed to sell to end-users (patients). In this instance the end-user is the Williamson County Jail.

Correct Rx has not had any liquidated damages or fines assessed by any client since our inception. Further, we have not negotiated relief of any liquidated damages and or fines. There simply have not been any fines to address.

Correct Rx prides ourselves on doing what the contract requires thus eliminating the potential for fines or assessments. Also, Correct Rx has never settled a lawsuit since our inception nor is any pending. Finally, Correct Rx has never referred any client or patient to our insurance company.

Correct Rx will perform all work as a result of this Bid in compliance with all Federal and State regulations, or in their absence, the best practices of the trade, including the American Correctional Association (ACA) and National Commission on Correctional Health Care (NCCHC). If at any time any license held by Correct Rx is terminated, qualified, suspended or in any other way detrimentally affected Correct Rx shall immediately notify Williamson County.

Compliance with Healthcare Standards

NCCHC: Correct Rx is well versed in the health care standards of the National Commission on Correctional Health Care (NCCHC). Jill Molofsky, Vice President and Dr. Hui Seo, Chief Clinical Officer are Certified Correctional Health Professionals (CCHP) through the NCCHC.

This level of expertise ensures that all pharmacy services policies and procedures are compliant with NCCHC standards, which we will apply regardless of whether the institution is currently accredited.

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ACA: Correct Rx understands and is familiar with the health care standards of the American Correctional Association (ACA). Correct Rx ensures that all pharmacy program services are compliant with ACA standards, which we apply regardless of whether the institution is currently accredited. Our goal is to establish, maintain and even exceed standards in between accreditations - not just to prepare for them.

Education and Training: Education and training of the staff is a key component of a quality program. All training provided by our expert in-house and guest trainers that help staff use their resources to the fullest potential are provided in compliance and consistent with NCCHC and ACA standards and the local State Board of Pharmacy. Correct Rx believes the outcome of education is a better product and service. *If it is Accurate, then it is Correct.*

Inclusion & Diversity: Correct Rx, as a woman owned business, understands the challenges and importance of providing opportunities to small businesses throughout the nation. In many states, we have partnered with small local pharmacies to provide emergency back-up pharmacy services to our contracted facilities. We utilize the services of small local delivery companies to facilitate the flow of medications to our clients' sites. We also contract with small local staffing agencies to provide staffing for facility audits and inspections.

Financial Stability – Confidential & Proprietary

Ownership Type: Correct Rx is a privately held Corporation chartered in the State of Maryland where it is headquartered.

Federal Tax ID Number: 75-3111495

Corporate Location
Correct Rx Pharmacy Services, Inc.
1352 Barkwood Road, Suite C
Hanover, Maryland 21076
Telephone: 800-636-0501/443-557-0100 Fax: 443-557-0333

Total Revenue: Correct Rx's total revenue for 2016 was $112.4 million.

Correct Rx delivers exactly what we promise and our client list has grown exponentially as a result of hard work, integrity and knowledge of the specific requirements of correctional facilities. Correct Rx's healthy balance sheet and robust client list speak volumes. Correct Rx has been in business for 14 years and in that period of time we have grown to become a multi-million dollar corporation. We have no debt and sufficient resources to service any client.

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Cash Position/Debt to Equity Ratio: 0.38 to 1.0

Correct Rx has in excess of $9 Million in cash reserves in addition to a $6 Million line of credit with SunTrust Bank, which we are not currently using. This liquidity ensures that we can weather any economic difficulties we face without fear of financial stress, and that we will be able to fulfill the requirements of this contract.

Audited Financial Statements: Correct Rx has retained the services of Dixon Hughes Goodman, LLP a national accounting firm, to perform an independent audit of their financial records. We have had independent audits performed every year since our inception. Correct Rx has always received a "clean" audit substantiating the financial results of the company each year. Correct Rx has never had any accounting deficiencies or internal control weaknesses noted from these audits.

Physical Inventory Count: Correct Rx, in accordance with good accounting principles, has arranged to have a physical on site inventory count done multiple times a year by an independent inventory firm. Correct Rx utilizes the services of RGIS, an independent inventory firm, to perform these counts. No discrepancies were noted during the last inventory count either by Correct Rx, RGIS or their independent CPA auditors from Dixon, Hughes, Goodman and Company, LLP.

Dun and Bradstreet Ratings: The most recent Dun & Bradstreet Rating for Correct Rx is 4A1. This is the best rating available and it indicates that we meet all of their financial obligations on or before their due dates. This rating also indicates that we have the financial strength on our balance sheet to provide the proposed services to Williamson County without incurring any debt or taxing our financial resources to do so.

Giant Sized Cost Savings through Group Purchasing Buying Power/ Strength in Volume: Correct Rx operates as an independent entity except when it comes to purchasing. Correct Rx has formed an alliance with a large consortium of correctional pharmacies nationwide to take advantage of volume driven manufacturer discounts. Through our various Group Purchasing Organizations (GPO's) and buying alliances Correct Rx is able to access pricing usually reserved for a select few. Correct Rx's buying department is led by a pharmacist with over 30 years of experience.

Transparency: Correct Rx does not play games with our invoice costs. Correct Rx's pricing is transparent. Correct Rx has lower overhead costs and extended buying power, usually reserved for the largest pharmacies. We are able to negotiate the best prices on your behalf and pass along the resulting savings.

Ownership: Correct Rx has not had any changes in ownership over the past two years and is not currently planning a change in ownership over the next five years.

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Summary

Simply stated Correct Rx's response to Williamson County's Bid is a comprehensive service plan designed to improve care and manage pharmaceutical costs along with overall healthcare expenditures. Correct Rx knows through experience this can be accomplished through a multifaceted approach. This contract and the level of care provided are unique to Williamson County. Correct Rx believes the real proof is uncovered by examining a company's track record for delivering pharmacy services and innovative initiatives that improve patient outcomes and reduce healthcare spending.

Correct Rx is offering a proposal that meets the challenges of today and provides leading changes that are all designed to positively impact what Williamson County spends on drugs and healthcare costs well into the future. We trust that the selection committee understands our commitment and willingness to work with you in a variety of innovative ways to provide the "Best Value" for Williamson County.

CorrectRx
PHARMACY SERVICES

PROPOSAL RESPONSE TO CRITERIA

Correct Rx PHARMACY SERVICES

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D. PROPOSAL RESPONSE TO CRITERIA - SPECIFICATIONS

Williamson County is requesting Proposals from firms to supply Pharmaceuticals and Pharmaceutical Service/Supplies for its County Jail, whose current population is 650 inmates.

Please acknowledge and/or respond to each of the specifications listed below and expound your firm's abilities to meet or exceed these requirements.

1. Proposer agrees and understands that the awarded proposer will be the principal source of supply for pharmaceuticals during the term of the contract. However, Williamson County reserves the right to purchase these products from other sources of supply in case of emergency or when the vendor is out of stock and it becomes necessary for Williamson County to support its immediate operational requirements.

The World of Drugs is Available to Williamson County

Correct Rx has the ability and the resources to supply all medications formulary and non-formulary drugs, injectables, intravenous products, syringes, sundries and other over-the-counter products for Williamson County. Correct Rx has access to all specialty medications through our wholesaler Amerisource Bergen, our GPO Innovatix and our alliances with Specialty Pharmacies for restricted medications. Medications need to be readily available when ordered. Correct Rx furnishes all prescription and non-prescription medications as prescribed by medical staff. Services make a big difference in the quality delivered and the price you pay each month.

Correct Rx will provide a comprehensive pharmacy services program for the detainees served by the Williamson County Jail that meets or exceeds every requirement as outlined in the RFP. Correct Rx is confident in our ability to satisfy all the requirements of the RFP.

Correct Rx is well known for delivering exactly what we promise. Our high level of integrity will reassure Williamson County that you are receiving the best customer service while employing the most cost effective approach to pharmaceutical care in the industry. We believe in doing things the "right way" and will strive to exceed your expectations.

We view ourselves as partners dedicated to providing optimal healthcare services, while being good stewards of the taxpayer's money. More specifically, we are extremely proud of our clinical services in combination with advanced technologies, which we feel differentiate us from our competitors.

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Correct Rx acknowledges Williamson County's right to purchase products from other sources of supply if necessary.

2. All pharmaceuticals, chemicals, and drugs provided under this contract shall conform to the standards set by the Federal Food and Drug Administration and the latest editions of the US Pharmacopoeia, the National Formulary, or the American Medical Association's publication, New Drugs, where applicable, whether or not this is specially indicated in the specification or proposal. In cases of multi-source drug products, names of manufacturers must be listed in the current FDA of approved drug products with therapeutic equivalence evaluations publication.

Our Drugs Conform to the Standards

Correct Rx understands and will comply. Additionally, all medications will be automatically dispensed with the generic equivalent, based upon FDA's A or AB rating, unless brand name is specified by the practitioner. When evaluating medications in any therapeutic class it is very important to analyze if a generic equivalent is available. Correct Rx will adhere to the Williamson County formulary and make appropriate therapeutic recommendations to provide the highest quality care while reducing costs.

3. Supplier must hold approved New Drug Applications (NDA) or Abbreviated New Drug Application (ANDA) for all products.

NDA and ANDA

Correct Rx's prime vendor, Amerisource Bergen, holds approved New Drug Applications (NDA) or Abbreviated New Drug Application (ANDA) for all products.

4. Supplier must be a licensed Medicaid vendor.

Medicaid

Correct Rx has extensive experience in billing medication charges to Medicaid and other supplementary medical insurance companies. We are an approved provider for Medicaid and most prescription medical insurers.

We presently provide pharmacy services to correctional facilities, skilled nursing, assisted living, and developmentally disabled institutions, all of which require the ability to process pharmacy claims electronically. We have a trained team of pharmacy technicians, pharmacists, and billing specialists to ensure that all claims are handled properly and efficiently. All of the employees have been trained on how to resolve any ambiguities in the order paperwork and we have a printed policy and

procedure manual to identify the proper course of action when handling all third-party payer claims.

5. Supplier must be an approved pharmacy by the Texas Department of Health/HIV program.

Texas HIV Medication Program

Correct Rx has been in communication with the Texas Department of Health HIV Medication Program. As stated on their website and confirmed via our telephone calls, "the Texas HIV Medication Program (THMP) is the government funded AIDS Drug Assistance Program (ADAP) for the State of Texas. The THMP provides certain prescription drugs to persons with HIV infection lacking the financial means to pay for them. The drugs provided are approved by the Food and Drug Administration (FDA) and are used in the treatment of illnesses caused by the human immunodeficiency virus (HIV) and other opportunistic infections." https://www.dshs.texas.gov/hivstd/meds/faq.shtm

All approved pharmacies for this program are currently located in Texas with one exception of a pharmacy in Shreveport, LA that provides mail order services only. Further this program provides services for qualified individuals while in the community, but unfortunately does not include detainees. While the program does not service individuals while detained at the Williamson County Jail, they may qualify upon release thus requiring the need for re-entry services and transition planning. Correct Rx has years of experience working with community based HIV programs (e.g., ADAP, Ryan White) and we will work with Williamson County to assist with these transition services and to facilitate getting these medications in the community.

Correct Rx also offers Williamson County an advantage in the treatment of HIV for those detainees under your care. Correct Rx understands the clinical importance of providing timely medication delivery and consultative services to patients with HIV/AIDS. The availability of highly active antiretroviral therapy has revolutionized the care of HIV and transformed the classification of HIV from a terminal illness to a chronic medical condition. While the treatment of HIV/AIDs is highly effective, medication therapy with antiretroviral medications (ARV) continues to carry adverse side effects and many drug-drug and drug-disease interactions. Our clinical pharmacy experience with patients receiving ARV helps to minimize the risk of adverse events. Correct Rx's clinical programs understands the significant impact of patient compliance with prescribed regimens, laboratory verification of regimen effectiveness and monitoring drug-interactions with other chronic care medications. We will collaborate with your medical team to ensure patients receive the highest standard of care.

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Prospective Review of HIV Regimens

Correct Rx's pharmacists review each HIV regimen prescribed for your detainees to ensure regimens are complete and appropriate. Antiretroviral regimens that are incomplete or otherwise inappropriate can lead to viral resistance and clinical failures. High cost or salvage therapies are often required in these cases which lead to increased costs of HIV care to our clients. To avoid this avoidable occurrence, Correct Rx will review all new orders for HIV medications to ensure:

- Regimens are complete
- Medications are prescribed in recommended doses
- Drug-drug interactions are identified
- Contraindications are avoided

The Department of Health and Human Services (DHHS) publishes guidelines for the use of antiretroviral agents in HIV infected adults and adolescents that stratify various ARV combination regimens based on clinical evidence. "Preferred" combinations refer to regimens that have demonstrated superior efficacy and have acceptable tolerability and ease of use. Each year, the arsenal of medications for HIV/AIDs increases with the availability of newer medications that offer improved efficacy and better safety profiles. Correct Rx requires our clinical staff to maintain competencies pertaining to HIV guidelines and to participate in HIV/AIDS education programs to remain current with treatment protocols established by the National Institute of Health.

6. All products must be packaged in a manner that will afford reasonable protection against moisture and contamination at all times.

Packaging

Correct Rx packages all products in a manner that affords reasonable protection against moisture and contamination at all times. Correct Rx ships all medications according to manufacturer specifications. Correct Rx is mindful of those products that must be dispensed and shipped in their original packaging. Our boxes are prepared for shipment so medication will not be damaged during shipment. All liquids that are susceptible to potential leaking are taped and placed in separate plastic bags. Refrigerated items are placed in special Mylar bags with sufficient ice packs to keep them cool and frozen products are shipped inside of special coolers with multiple ice packs.

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a. Supplier shall utilize blister packs for dispensing of medications.

Blister Packs

Correct Rx will provide solid oral prescriptions, including patient specific over-the-counter medications, primarily in 30 dose modified unit of use blister cards approved by the current United States Pharmacopoeia/National Formulary (U.S.P./N.F.) for that drug. Correct Rx will provide the specified day supply or the quantity requested. Correct Rx ensures that the medication is packaged in a manner that:

1. Maintains the integrity of the medication dispensed;
2. Maximizes the expiration dating of the medication;
3. Minimizes medication waste and cost to Williamson County;
4. Minimizes the risk;
5. Promotes safety of patients, health care staff, and other facility personnel;
6. Decreases the potential for facility contraband;
7. Includes bulk packaging, unit dose packaging where each dose is individually labeled and sealed, and child proof containers for discharge medications as required.

Correct Rx will provide the specified day supply or the quantity requested. All liquid medications will be shipped in plastic non-breakable containers. Correct Rx will make recommendations regarding quantity dispensed based on our experience. Medications will be packaged in an organized manner so they are protected from damage during normal shipment due to the elements or handling. We ship all refrigerated items in an insulated container and clearly mark the outside of the box that a refrigerated item is contained inside.

In addition we take particular care when shipping controlled substances. Although we include controlled substances with the overnight shipment we place them in a separate hermetically sealed bag to ensure extra security. Any medications received that are damaged will be replaced by Correct Rx at no additional cost to Williamson County.

Customized Quantities

Correct Rx utilizes blister cards manufactured by MTS with 30 bubbles in each blister card. Correct Rx will dispense the medications in a 30 day supply or in the quantity ordered by the on-site medical or mental health provider if less. Correct Rx has the ability to customize the dispensed quantity based on any of the following criteria:

- Inmate
- Type of medication e.g., Restricted vs. Self-Administered

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- PRN vs. Chronic Medications
- Disease state
- Specific facilities or units e.g., Reception Centers or Mental Health Units or Infirmaries, etc.

Correct Rx's operational staff has years of experience providing medications for institutions of all sizes. Our experience allows us to make tailored recommendations and solutions. Not all facilities or units within facilities are the same and you will find our ability to accommodate your needs is quite different than most correctional pharmacies. One way we offer value to our customers is through customized quantity packaging. Correct Rx can dispense in quantities less than 30 days of medication for specific medications (e.g., psychotropic) or by unit (e.g., infirmary) or by facility (e.g., intake).

This solution greatly reduces wastes, decreases returns, improves patient safety and is cost effective. Correct Rx offers a myriad of options to customize quantities for Williamson County. We have established our integrity through providing solutions that control excess medications and costs. We are flexible and will work with Williamson County to provide the best solution when it comes to quantity dispensed.

Correct Rx will fill prescriptions for any amount less than 30 days as requested. So if the on-site medical provider requests a seven or ten day supply the medication will be filled for the exact quantity and the appropriate number of pills will be placed in the blister card. At Correct Rx we feel we have a fiduciary responsibility to assist our clients in controlling excess medications and we will work with you to analyze the problem and arrive at agreeable solutions.

> *b. Labels shall be affixed to the blister pack and the Medication Administration Record (MAR). Labels shall contain all the necessary information required by law as well as the inmates housing unit and date of birth.* ***A sample of the blister pack should be included****.*

Labels – Complete Compliance – Don't be fooled!

The label requirements for blister packs are no different than for medication bottles or bulk items (tubes, liquids, etc.). Under Federal and Texas labeling requirements there is no "each bubble" requirement. Correct Rx does not mix medication lots. The information is uniform for every pill in each blister card. Medications are dispensed and in compliance with all state and Federal laws.

Correct Rx's commitment to full compliance is rooted in our core values, but more importantly it is reflected in our performance record over the last fourteen years.

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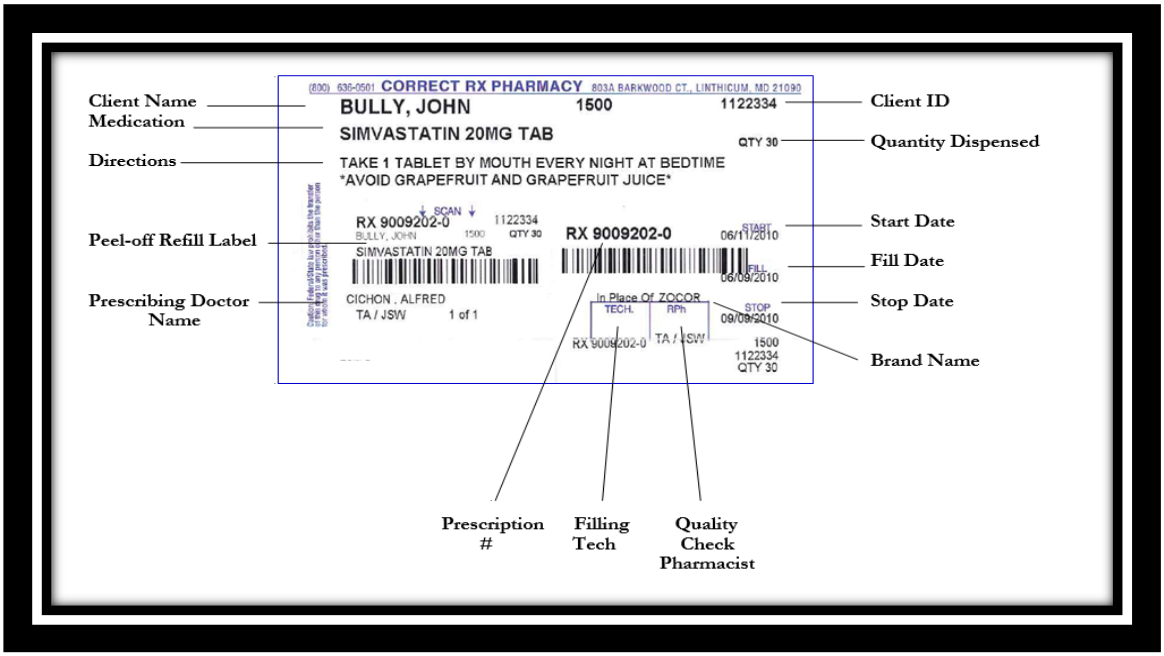
No regulatory body has ever fined or otherwise penalized Correct Rx for noncompliance with any Federal or state laws, rules, or regulations.

Correct Rx's legal compliance is supported through our partnerships with our contracted national wholesaler and repackager. Correct Rx only purchases pharmaceuticals through Amerisource Bergen; one of three national wholesalers (the others include Cardinal and McKesson) who account for 85% of all medications sold within the United States. All three wholesalers' processes were vetted and passed Federal scrutiny. Further, Correct Rx, in partnership with Amerisource Bergen, has established compliant protocols that allow us to legally provide our licensed clients with wholesale services where requested or necessary. **Similarly, Correct Rx, in partnership with Unit Dose Solutions, a federally registered repackager providing national service, is able to supply our clients with specialized packaging in States that have implemented restrictive laws**. These relationships allow for transparency in services and fees with appropriate licensure that comply with the strict guidelines of medication distribution from manufacturers to distributors and pharmacies and ultimately to institutions and patients.

Sample Label

Below you will find a sample of the Correct Rx label affixed to dispensed medications. Also included on the back of each blister card is the drug name, manufacturer, lot #, and drug expiration date.



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Labeling Requirements

All prescriptions are labeled in accordance with labeling regulations and include the requirements of this RFP:

- Inmate's name;
- Inmate's identification number;
- Medication name and strength;
- Dosage form;
- Generic interchange information;
- Quantity dispensed;
- Manufacturer's name;
- Lot number;
- Medication expiration date;
- Route and times of administration;
- Prescription number;
- Prescriber's name;
- Original date;
- Dispense date;
- Discontinue date and/or refill information;
- Dispensing pharmacist's initials;
- Directions for use (Spanish available, if requested)

Auxiliary Labels

Correct Rx applies all necessary warning and auxiliary labels on each prescription for safe and effective medication use describing reactions, cautions, warnings, interactions, and dietary instructions such as: take with food; may cause drowsiness; shake well, etc. Refrigerated items are packed separately in insulated pouches with cooling packs and clearly marked on the outside of the package, "Refrigerated Items." Correct Rx will mark controlled medications and package the medications in a mutually agreed upon format for easy identification.

Sample Blister Packaging

A sample of our blister cards are available on the following pages.

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Front of Blister Card:

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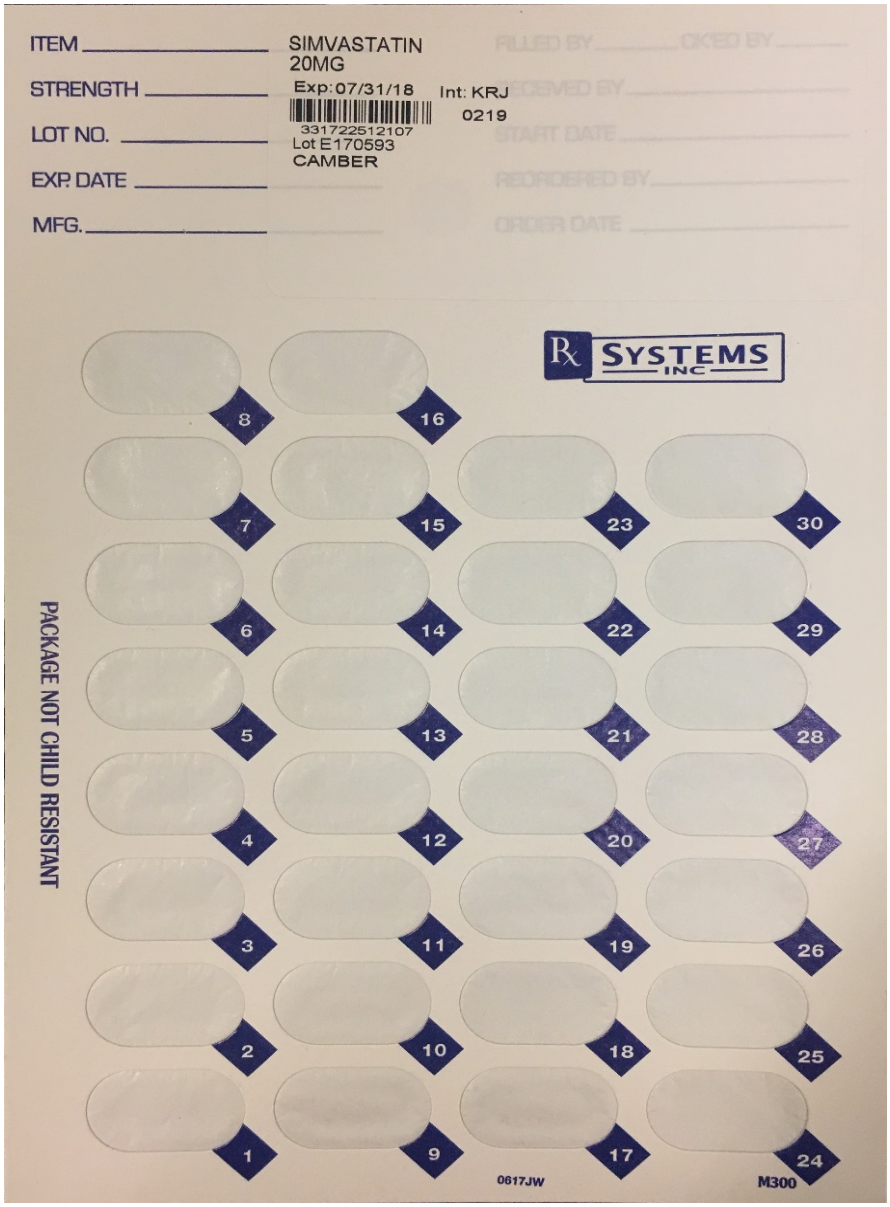
Back of Blister Card:



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c. Supplier shall furnish Keep on Person (KOP) medications in approved containers and label them as such.

Keep On Person (KOP)

Correct Rx assists the medical and mental health providers in determining which medications are best suited for a KOP program and also has the ability to label KOP orders as such in the direction line if this would help the medical staff handing out the medications. Keep on Person Medications are normally medications that are **not** psychotropic, controlled medications and or medications that have the potential for abuse. Williamson County will determine which offenders qualify for the KOP program. Correct Rx will furnish, as necessary, KOP medications in approved containers (no metal or glass) and label them as such in compliance with the existing policy.

Correct Rx has also developed a Medication Self-Administration Bulletin which lists detailed instruction on the utilization of KOP medications. This KOP bulletin has a signature line for the offender to sign prior to beginning a self-administration program. Correct Rx will provide this form for review by Williamson County prior to use. Of course this form can be edited to suit the specific needs of the facility. The offender receiving the medication must sign and date our Medication Self-Administration Bulletin, which lists detailed instruction on the utilization of KOP medications.

Correct Rx provides a daily manifest/packing list included with each delivery. This packing/manifest is sorted alphabetically by patient and includes the offender number, name of drug, quantity shipped; it also provided a space for the offender to sign for receipt of KOP medications. In addition, Correct Rx will supply an easy to use KOP stamp with a signature line that can be utilized on the medication administration record or a separate KOP sheet for ease of documentation of receipt of KOP meds.

d. Supplier shall provide the County with a minimum four (4) medication carts for the dispensing of medications at no additional cost to the County. These carts shall be furnished with locks and keys in order to avoid unauthorized access.

Medication Carts

Correct Rx will loan Williamson County a minimum of four (4) medication carts at no additional charge for the length of the contract. These medication carts have lockable drawers and have an additional locked narcotic box contained therein, and will be ordered to meet the needs of the medical staff. They include large shock resistant wheels for ease of handling inside the facility. The color and size of the carts

will be coordinated with the Health Services Administrator. Each cart is customizable to provide drawers that will be provided to hold blister cards along with bulk liquids, topicals, ear, nose and eye products. The table below provides the cart details for the most utilized carts we provide from our vendor Capsa.

Capsa Medication Carts			
Model	W x D (in.)	W x D (cm)	Height (in. & cm)
M3	29.5 x 26.75	75 x 68	43.5 113
M4	36.1 x 26.75	92 x 68	43.5 113

Correct Rx understands the unique and potential dangers with medication storage in a correctional environment. As part of the quarterly inspection process Correct Rx will ensure that all packaged medications delivered to the facility is stored in lockable storage devices in order to minimize the risks associated with medication diversion. During these inspections, Correct Rx will verify that not only that the storage units are lockable, but that appropriate security procedures are in place and being followed to minimize unauthorized access to medications.

e. Supplier shall have ability to provide a stock-medication type inventory.

Quantity and Type of Starter Medications

The quantity and type of starter medications will be determined in collaboration with the Medical Director and Correct Rx's Clinical Program Manager. The medications kept on hand are those that need to be started prior to the patient specific order being received from Correct Rx. Correct Rx is sensitive to the concern regarding the quantity and variety of starter medications. The quantity and type can be customized by facility type and size. Normally the category of drugs that are included in starter emergency medication supplies: antibiotics, asthma medications, seizure meds, diabetes, and some cardiac and detox medications. A system of accountability will be developed to comply with all ACA guidelines and Board of Pharmacy regulations.

Correct Rx will comply with Texas Board of Pharmacy Rules and Regulations related to the management of starter doses and Emergency Medication Kits. Even though Correct Rx provides next day service, emergency medications and starter doses are necessary to initiate medication therapy in acute conditions and life threatening emergencies.

Correct Rx will establish a stock supply of commonly utilized medications for administration to offenders prior to receipt of their patient specific medication. Correct Rx understands that timely medication administration improves treatment outcomes. Drug selection and maximum quantities will be developed in collaboration with the Medical Services and Mental Health Services and Correct Rx's

Chief Clinical Officer. These medications are to be used on an emergency interim basis, while awaiting a patient specific medication to arrive onsite and to ensure that there are no lapses in treatment.

Due to Correct Rx's efficient and reliable medication delivery, Williamson County will be able to minimize its reliance on stock medication, which will in turn increase patient safety and decreases issues related to cost, diversion, waste, regulatory noncompliance. Not all medication rooms need to have every item on the stock list at the maximum quantity.

Correct Rx will work closely with Williamson County to ensure these stock lists are relevant and well managed. The list of medications and quantities will be tailored based on an assessment of the prescribing habits as well as established and acceptable treatment guidelines.

Correct Rx realizes that starter medications are necessary to ensure continuity of care until patient specific medications are obtained. Overstock of medication, however, can unnecessarily increase the financial burden; medications potentially may go unused and expire, thereby creating waste. Many times, the fear of not receiving patient specific medications in an appropriate time frame leads to an excess of non-patient specific stock medications.

Correct Rx knows what it takes to deliver medications in a timely manner the "Correct Way". Correct Rx's ability to deliver medications the next day eliminates the potential for excess stock medications. An overstocked medication room leads to poor documentation, possible diversion, potential nurse dispensing and higher cost due to unused inventory and possible waste.

Accountability and Tracking

Stock medications shall be managed and maintained in a safe and secure environment with a perpetual inventory tracking system, developed by Correct Rx, to ensure accountability. Correct Rx appreciates the concerns associated with maintaining stock medications. Accountability is the key to minimizing potential over dispensation to the patient and possible diversion concerns. Correct Rx dispenses all stock medication with an affixed "Stock Accountability" record. This record is utilized to record accountability for each dose administered from the dispensed quantity. Proper documentation of the stock drug record is essential; it creates accountability. This system of accountability is developed to comply with all NCCHC and ACA guidelines. The completed Stock Accountability record should be returned to the pharmacy for reconciliation. This is in addition to and separate from the required documentation of the Medication Administration Record. This

accountability system allows for stock medications to be stored in the same secure location as patient specific medications, while providing for ease in accountability.

Approval and Training regarding Emergency Medication Policies

Training is an essential element of our industry. Correct Rx provides hundreds of educational sessions each year. The training sessions may be part of a transition schedule or instructions on how to use a new technology or an in-service on the proper treatment of a particular disease state but the goal is always to provide necessary information to produce a successful outcome. As part of our implementation training, medical and mental health services staff will be instructed on the initiation and maintenance of the "Stock Accountability" system. The training program will be made available to the Williamson County Medical Director for approval prior to implementation.

f. Protocols must be updated often to stay abreast of community standards.

Protocols and Community Standards

Correct Rx has years of experience developing many pharmacy policy and procedures manuals for correctional facilities and systems. These policies and procedures are intended to ensure compliance with all laws and regulations related to procurement, storage, labeling, administering and record keeping of drugs and biologicals.

The purpose of a Policy and Procedures manual is to serve as a professional guide to pharmaceutical services for the correctional facility and to:

- Enhance patient care and assure the safety of offenders receiving pharmaceutical services
- Promote consistency and continuity
- Communicate important policies
- Aid in personnel training
- Increase legal protection
- Aid in evaluating performance

All procedures are in compliance with ACA, NCCHC, State and Federal guidelines. Correct Rx Pharmacy's Lead Clinical Liaison will review the policy and procedures manual regularly and recommend any necessary modifications in coordination with the Medical Department.

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7. Unless exceptions are made, such as for biological, all shipments of pharmaceutical products, which incur expiration dates, must have a minimum of one-year dating as of delivery.

Expiration dates

Correct Rx acknowledges and will comply.

8. Items meeting the following criteria shall be exchangeable or creditable at the contracted price.

a. Trademarked items in original unopened package in accordance with the vendor's return goods policy. Vendor shall provide a copy of the return goods policy.
b. Non-trademarked items in original unopened packages, in accordance with the vendor's return goods policy.
c. Outdated biological products returned within one year after expiration date.
d. Any product that arouses questionable physical properties or therapeutic activities. The County reserves the right to return such product to the vendor for credit or immediate replacement. Return of such products shall not require prior notification to the vendor, and shall be returned at the vendor's expense.

Returns and Credits

Correct Rx, in accordance with State and Federal Law, will provide a method for the return and credit of medication from Williamson County. Correct Rx recognizes the challenges of managing the economic and operational burden associated with storage of unused or overstocked medications. Correct Rx will assist Williamson County in realizing the economic benefit of returning medications by outlining standard procedures for the return of medication. Credit will be given for medications returned when the following criteria have been met:

- The prescription medication did not leave the control of the registered professional nurse or licensed practical nurse responsible for the security, handling, and administration of that prescription drug and that the prescription drug did not come into the physical possession of the individual for whom it was prescribed.
- The labeling and packaging of the prescription drug are accurate, have not been altered, defaced, or tampered with, and include the identity, strength, expiration date, and lot number of the prescription drug.
- The prescription medication was dispensed in unit dose packaging or original manufacturer's packaging.
- The prescription medication is not:
  - ✓ A controlled substance
  - ✓ Expired
  - ✓ Damaged
  - ✓ Deteriorated
  - ✓ Contaminated

Correct Rx PHARMACY SERVICES

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All returned medications will be documented at the facility. The medications will be returned to Correct Rx at our expense. The medications will then be electronically scanned at the pharmacy for documentation, accountability and for purposes of providing credit.

Credit will be given on a monthly basis for all medications including half tabs and for full and partial cards that meet this criteria, comply with State and Federal regulations, have a value of at least $2.00 and which have more than 90 days remaining before their expiration date.

Credit will be issued in accordance with these regulations at the price Correct Rx pays for the medication per pill. **No charge will be assessed for re-stocking.** Note: DEA controlled medications cannot be returned to the pharmacy provider. Controlled substances shall be destroyed per State regulations and facility policies.

Detailed Monthly Credit Report

The Monthly Credit Report will be included with each monthly invoice and will show all returned medications received back at the pharmacy. We utilize barcode scanners to record all orders that are returned to the pharmacy. The monthly report shows the Patient Name, The Rx Number, the return date, the fill date, the drug name and strength, the quantity originally dispensed, the quantity returned, and the amount of credit being given.

Cost Savings

At Correct Rx, we believe the best way to reduce the burden of unused, unnecessary medication is to actively manage medication utilization. Correct Rx's experienced clinical pharmacist will review utilization trends at Williamson County, addressing the unnecessary waste or return of large quantities of medication. The handling of unused medications presents a burden to Williamson County.

Storage concerns, loss and diversion of medication, and lost savings when medication is not returned are challenges that must be addressed. Correct Rx uses a clinical pharmacist to provide a thorough utilization review which in turn leads to patient-focused and provider-focused interventions ultimately resulting in cost savings to Williamson County. Factors such as poor patient compliance, over-ordering, adverse events, and the early discontinuation of medications can increase the quantities of unused medication. Identified opportunities to reduce the quantity of unused medications at Williamson County will be reported during quarterly Pharmacy and Therapeutics meetings.

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Credit Compliance

There is ***no relation*** between a vendor's ability to issue credit on returned medications and being licensed either as a wholesaler or repackager. There is no connection between unit dose packaging label requirements, return of unwanted, unused or expired medication and a vendor's ability to provide credit to a client.

Neither the State of Texas nor the Federal Government legislate a private company's business decision as to whether it chooses to offer credit on medications. There are State and Federal Laws guiding whether or not medications can be returned and re-used or re-dispensed, but there is no statute that even addresses the issue of providing credit. Each pharmacy has at their option the ability to offer credit if it chooses to do so and under what terms and conditions it will do so, if it does. Thus, Williamson County will see different terms and conditions on nearly every vendor's policy surrounding the issuance of credit for returned medications. The Federal Government imparts the responsibility upon the individual states to legislate the return of medication. Any other claims are simply false.

9. The County reserves the right to submit samples of products of doubtful potency or composition to a competent independent laboratory for assay, and in such cases, the cost of such assay will be paid by the supplier if products are found to be below US Pharmacopoeia, National Formulary, or Federal Standards.

Potency and Composition

Correct Rx understands and acknowledges that Williamson County reserves the right to submit samples of products of doubtful potency or composition to a competent independent laboratory for assay, and in such cases, the cost of such assay will be paid by the supplier if products are found to be below US Pharmacopoeia, National Formulary, or Federal Standards.

10. Final inspection of all products and decision of acceptance or rejection will be made by the County. Final inspection shall be conclusive except with respect to latent defects, fraud, or such gross mistakes as shall amount to fraud. Final inspection resulting in acceptance or rejection of the products will be made as soon as practicable, but failure to inspect shall not be construed as a waiver by the County to claim reimbursement or damages for such products which are later found to be in nonconformance with specifications.

Final Inspection

Correct Rx understands and acknowledges that final inspection of all products and decision of acceptance or rejection will be made by the County. Final inspection shall be conclusive except with respect to latent defects, fraud, or such gross mistakes as

shall amount to fraud. Final inspection resulting in acceptance or rejection of the products will be made as soon as practicable, but failure to inspect shall not be construed as a waiver by the County to claim reimbursement or damages for such products which are later found to be in nonconformance with specifications.

11. The County shall be billed on a monthly basis. The billing procedures shall allow for separate billing for inmates that are identified as I.N.S. or U.S. Marshal Inmates and that billing should go directly to the respective agency.

Monthly Billing, INS and U.S. Marshal Inmates

Third Party Direct Billing: Correct Rx has extensive experience in billing medication charges to third party administrators including Anthem Blue Cross and Blue Shield, Medicaid, Trigon and U.S. Customs and Immigration Enforcement (ICE). Correct Rx is also one of Heritage Health Partners' preferred pharmacy partners. Heritage Health was selected by the U.S. Marshals Service (USM) to manage their detainees. Their services include management of pharmaceuticals for this population. We presently provide pharmacy services to correctional facilities, skilled nursing, assisted living, and developmentally disabled institutions, all of which require the ability to process pharmacy claims electronically. Correct Rx also provides services for several facilities in which we bill the USM regional office directly and we will provide this service for Williamson County.

Accurate Billing the First Time: Correct Rx is committed to accurate and straightforward pharmacy billing. Correct Rx recognizes that this accuracy contributes to minimizing the amount of Williamson County labor processing bills. Correct Rx has a centrally located billing office and will assign a billing representative dedicated to the Williamson County account.

We have a trained team of Pharmacy Technicians, Pharmacists, and Billing Specialists to ensure that all invoices are handled properly and efficiently the first time. All of the employees have been trained on how to resolve any ambiguities in the order paperwork and we have a printed policy and procedure manual to identify the proper course of action when handling all billing problems.

Bills are reviewed for Accuracy Prior to Sending to Williamson County: All monthly billing is reviewed again at month-end by both a pharmacist and a billing specialist to look for any anomalies that can be resolved before the billing is finalized. This review process has proven to improve the accuracy of monthly billing and has become another example of our motto "If it is the right way, it is the Correct Way".

Billing Process: At Correct Rx, we pride ourselves on having bills that are not only accurate, but they are also easy to read and to audit. On a monthly basis, we issue a

cover invoice which is a one-page synopsis of all charges and credits that were incurred during the month.

We can break down medication charges in any number of formats, based on our customer's need. Behind the cover invoice, we then include detail reports of all medications dispensed, listed by patient name, medication dispensed and date dispensed.

These detailed reports can also be separated by formulary medications, non-formulary medications, and other designations as required by our customer. We also include detail reports of any medications returned, with the corresponding credits issued as per the contract and Maryland Board of Pharmacy regulations.

In addition to our concise billing procedures, Correct Rx also takes pride in the fact that we are fiscally sound and keep all accounting records in accordance with Generally Accepted Accounting Principles (G.A.A.P.). We undergo an independent audit of our records on an annual basis, and we receive an unqualified opinion from a national auditing firm as to the accuracy of those records. Our outside audits are performed by Goodman and Company, a nationally-recognized accounting and auditing firm with offices throughout the United States.

Internal and External Audits: Our internal audit department will perform regular audits of the Williamson County billings to ensure strict adherence to all Federal and State health care statutes, and health care program requirements.

Additionally, since we have audited financial statements prepared annually by a reputable CPA firm, part of their procedures includes the audit of transactions processed during the year. This audit procedure is geared to measure adherence to all accounting, billing, and ethical standards. We have received a "clean" audit report for every year that we have been in business, and there has never been any issue raised in their annual management letter.

Our internal and external audits ensure that we follow proper procedures and protocols on a consistent basis, and that we comply with generally accepted accounting procedures at all times. These procedures ensure that we do the job correctly and consistently.

12. Separate itemized billing and credit invoices, on-line or computerized program for billing and credits, computerized inventory control in addition to online ordering must be provided and should be used for invoice reconciliation. In addition, the County Jail must be notified via e-mail and/or fax prior to shipment of partial orders. The e-mail or fax must list what item(s) and quantity(s) are not being shipped and when these item(s) will be available for shipment to complete the order.

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Itemized Billing – Credit invoices – Inventory Control – Ordering

As noted above, Correct Rx will provide separate itemized billing and credit invoices, on-line or computerized program for billing and credits, computerized inventory control in addition to online ordering, which is used for invoice reconciliation. Correct Rx uses a specialized dispensing system to ensure safe and efficient medication distribution in accordance with applications. Correct Rx provides licensed pharmacists who are experienced in correctional medicine and mental health services to screen all prescription orders for accuracy, completeness and formulary compliance prior to dispensing. The dynamics and the acuity level of the correctional population are more complex than the community. All prescriptions dispensed by Correct Rx are checked a total of three times by a registered pharmacist. This triple checking system, along with our advanced automated barcode technology and aggressive QA program, results in a low error rate. The final check is an additional Quality Assurance step to ensure the drug, strength and quantity match the information on the label before being dispensed.

Back Orders

Correct Rx's Vice President of Purchasing along with our Director of Purchasing have over 20 years of experience in purchasing and inventory control in the institutional pharmacy industry. Correct Rx will ensure that medications are available as needed and in stock for the Williamson County Jail.

In the event that Correct Rx has insufficient inventory to fulfill an order we will have the medication dropped shipped to us through our wholesaler Amerisource Bergen, our GPO Innovatix and/or our alliances with Specialty Pharmacies. Correct Rx's back order rate is less than one third of one percent of all orders processed and of those items back-ordered well over 99.99% are sent with the next delivery.

Backorder Process

All backorders whether full or partial will be communicated via a white backorder slip. This is a three part slip. The white copy of this slip is placed in with the daily shipment of medications. A B/O designation will be placed in the appropriate slot on the daily delivery manifest to communicate the backorder. The medication will be shipped the following business day. The second yellow portion of the backorder slip will be attached to the medication thus communicating the completion of the order.

If there is a delay in shipping the medication (e.g., manufacturer's backorder or special order) a Correct Rx Pharmacy staff member will call the facility to explain the reason for the delay and contact the appropriate medical provider to suggest a therapeutic alternative. This entire process is described in detail in our

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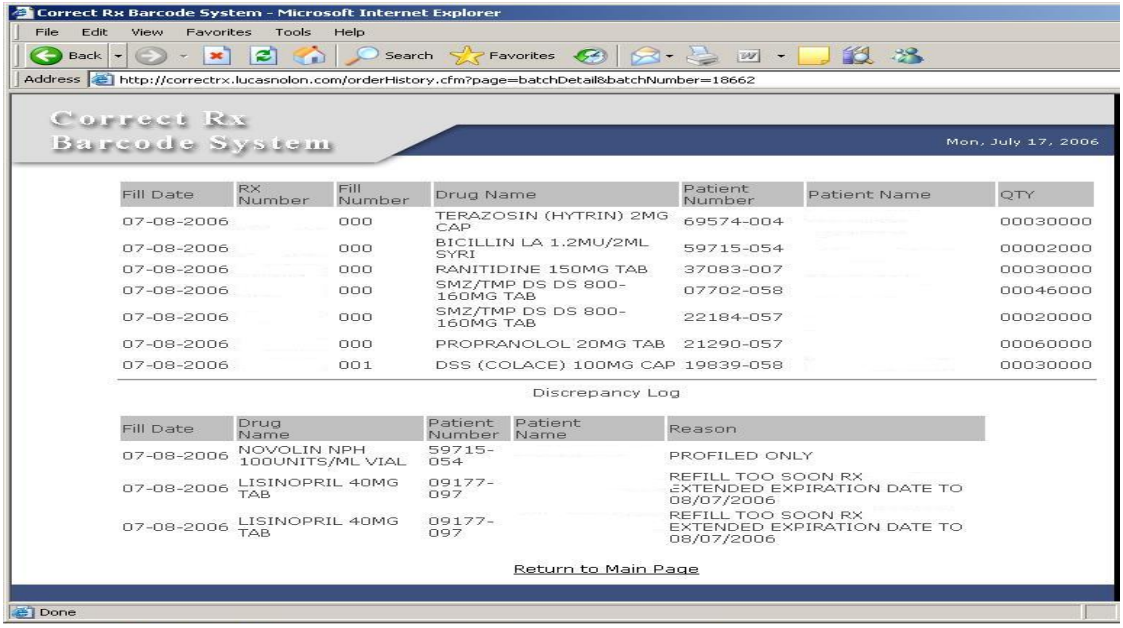
"Implementation Handbook" and will be reviewed with the medical staff during our start up training.

Web based and hard copy of Daily Discrepancy Log

Correct Rx also employs a tried and true system of Quality Assurance metrics and continuous communication with the facility to ensure orders are processed properly and that patients receive their medications timely. One of these tools is the Daily Discrepancy Log which is available in real time online through our web based barcode system and as a hard copy report provided with every delivery.

The purpose of the Daily Discrepancy Log is to list every order that Correct Rx was not able to process on that day and more importantly why it was not filled. For example, an order may have just been filled the day before and a medication nurse accidentally re-orders it again. The discrepancy log will note that the order is being requested too soon but will also tell the facility what date the order should be refilled.

The importance of this report is that on a daily basis the facility medical staff has an opportunity to review the items not sent and act appropriately in-order to receive the medication. This report is also available when checking the orders in utilizing our web-based barcode system.



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13. Inventory should be controlled by scanning orders for delivery and return.

Facility Web-Based Advanced Bar Code Technology

Our Barcode Order Reconciliation Program monitors and records on-site receipt of orders and assists in maintaining an inventory of pharmaceuticals in a safe, secure, and organized fashion. Correct Rx's proprietary system is web-based and requires no software. **The only equipment needed is a USB Barcode Scanners which we provide at no additional charge.** The system is accessed from our website by simply clicking on the Barcode Login section of our homepage and entering you Correct Rx issued login and password.

Scanning The Medication into the box at Correct Rx

Correct Rx has invested in an automated shipment verification system to ensure the highest level of accuracy and accountability to our customers. This application uses barcode scanning equipment to verify each order as it is placed into the shipping container for each facility that we serve. The computer system then compares each order scanned versus the computer record of outstanding orders for that facility. If there is any discrepancy, it must be resolved before the shipment is released to the carrier for delivery. This way we are certain that all the medications ordered are included in the outgoing shipment to the specific facility and their inclusion in the box is verified by a barcode scan.

Once the shipment is released for delivery, a hard copy of the packing list is included in the box, and an electronic copy is posted to our web site. Our web-based program allows the medical staff to view what is being delivered before it arrives. There is no mystery if a particular medication is going to come. This use of technology provides significant time savings to our clients and results in higher accuracy for our

shipments. Correct Rx is dedicated to the accurate and timely delivery of medication.

Medication Check-in at the Facility-Time Savings and Accountability

Once the medication is received and signed for at the facility the order is ready to be checked-in using our user friendly web based electronic barcode system. The healthcare professional onsite simply logs in to our website, selects the shipment date and checks the order in using a standard barcode scanner. The check-in is fast and creates a layer of security ensuring all ordered medications are received.

In addition to providing auditable accountability and verification of receipt, shipment check-in time is reduced dramatically versus the manual process of checking orders against the paper packing list. After scanning each medication in the delivery for that date, a report is run to ensure all orders were received. Orders that were checked in properly are highlighted with a green box, while any orders that were not properly scanned in are highlighted in a red box. If an item that was not properly scanned in is found it may be verified by simply clicking on the red highlighted box and the scanning the item. If there are any items that are missing, which is rare, the facility simply calls Correct Rx to ensure the medication is included with the next delivery.

Archived Records

All shipment records are kept active on the website for at least 60 days, so you can verify shipments that were received within the last 60 days providing managers and administrators with an extra layer of accountability. Key Managers and designated personnel will have access to the barcode system to review which sites are using the system and which orders have been delivered into the facility. Medical providers and nurses concerned about whether an order is delivered can log into the system at any time to confirm facility receipt of medication. Correct Rx conducts a monthly CQI survey to measure compliance with using the web based electronic check-in system. The results are shared with those from the medical and mental health teams directly responsible for ensuring that orders are scanned in at the facility.

Electronic Delivery Receipts

Our web-based program also allows the medical staff to view what is being delivered in their package before it arrives. There is no mystery if a particular medication is going to come. The nursing staff has access to their delivery manifests via our website that informs the medical staff of anticipated delivery items. We believe that this advancement in the use of technology provides significant time savings to our clients, and results in higher accuracy for our shipments. Correct Rx is dedicated to providing the right medication to the right patient in a timely fashion.

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Automated Refills – Using Barcode Scanner

Our web based program may also be used to initiate medication refills simply by scanning the refill barcodes and then hitting submit. Once again, the order goes to Correct Rx electronically via the web and the prescriptions are received by Correct Rx instantaneously, dispensed and ready to be delivered with the next delivery. This website feature is executed in real time. Medications can always be refilled by faxing or calling the pharmacy, which serves as a back-up should the facility be unable to access the web or if there are other unforeseen technical difficulties.

Correct Rx's Barcode Scanning technology has provided significant time savings to the nurses ordering medication and resulted in higher accuracy for our shipments. This is a measurable advantage.

14. Supplier shall have the ability to generate the following reports:

i. Tracking of usage of medications by inmate, specific doctor, or specific medication
ii. Online invoicing
iii. Itemized incoming deliveries
iv. Online credits and online returns
v. Overall credit % per time period requested
vi. "Ad hoc" reports

Reports

Correct Rx's administrative and clinical management personnel provide data and reports with a high level of accuracy, validity and integrity. Our team has gained a wealth of hands-on jail and correctional health, juvenile service, and long-term managed-care experience over the past 30 years. Correct Rx uses this experience to gather data and design reports tailored to meet the specific needs of our clients and the healthcare teams at each facility. Our reporting system includes traditional written reports, access to our online Remote Reporting System, and our advanced Dashboard Management Tool. Correct Rx collaborates with the medical staff in the collecting and reporting of data and in the development of indicators to be measured and standard reports for management and administrative purposes.

Correct Rx will submit a prescribed set of statistical reports to Williamson County on a monthly basis and additional reports as requested. Correct Rx will generate each report in the form and format as determined most useful by Williamson County. Correct Rx provides reports that address, but are not limited to those specified in this bid:

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- Tracking of usage of medications by inmate, specific doctor, or specific medication
- Online invoicing
- Itemized incoming deliveries
- Online credits and online returns
- Overall credit % per time period requested
- “Ad hoc” reports

We are excited to present Williamson County with a range of options to manage pharmaceuticals with our robust reporting systems and the new dynamic web based dashboard reporting system that we have included with this proposal. We believe it will provide Williamson County with instantaneous access to a full menu of reports which will provide valuable information and save the time by not having to manipulate raw data. Our written reports and participation in interdisciplinary meetings provides Correct Rx with the opportunity to consistently demonstrate our quality of service and dedication to focusing on the client value first, being customer friendly, being customer centered and always providing something extra. Understanding and meeting the needs of our clients is essential and always in the forefront of our operations.

Web-Based Reporting System

Correct Rx will provide an in internet secure web-based integrated reporting system for Williamson County’s use that provides up-to-date date (previous day’s orders shall be viewable) on all pharmaceutical ordered for utilization management. Our system will provide reports by date, cost, prescriber, offender, drug or drug category utilization or any combination thereof. Additionally, Correct Rx will provide the ability to run reports, including prescriptions needing to be refilled. Additionally, monthly reporting of drug returns, and prescription errors shall be provided.

Dashboard Instantaneous Access to Utilization & Billing Data

Modern business analytics is a vital necessity when managing a healthcare system. Information is only beneficial if it is current, accurate, and available. Managers need real time information. Correct Rx provides access to our Dashboard Reporting System. This web based program acts as a nerve center where quantitative and qualitative information is readily available and accessible 24 hours a day 7 days a week. We want to make you more effective by making information intuitive and understandable.

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The dashboard can aggregate pharmacy data for Williamson County and will provide visual information on how the jail is performing related to key performance indicators like medication budget, utilization by patient, cost per inmate, number of prescriptions per inmate and attention alerts. Each key performance indicator will allow filtering to narrow the analysis. In addition, qualitative alerts like findings on medication room inspections can be posted in the Notification Center. Managers will find this system to be an essential management tool, as they will know exactly what is happening in their facility. Each user will be assigned a user name and password with an assigned level of access to the dashboard.

Key Performance Indicators

The Dashboard will allow managers to track and report results related to pharmaceutical utilization. Key Performance Indicators such as medication cost, HIV cost, Psychotropic cost, Nonformulary cost, Number of Fills, Number of Clients on Medications (including HIV, Psych, Nonformulary, and Hepatitis), Average Daily Population, Cost Per Client Per Month (PCPM) and monthly accruals can be customized to meet Williamson County's needs. Additional reports including Top 50 Drug by Cost and most expensive patients, Formulary compliance and cost by disease state are provided.

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Message Content

In addition to the quantitative information available, Williamson County will have a message center where managers will have access to reports, site inspection findings, meeting/visit dates, clinical updates, drug shortages and operational issues identified. High cost patients would be identified in the "Most Expensive Patients" Report and could be monitored closely on the Dashboard Reporting System. Williamson County personnel at multiple levels could monitor their care closely and communicate on cost saving strategies within their healthcare teams and with the Correct Rx Clinical Team.

Key Features of the Correct Rx Dashboard

- Overall analytics can be tailored to fit data requirements and graphically displayed on the dashboard
- Data feeds can be synced on a scheduled basis depending on user requirements
- Super Administrators have access to an overall reporting screen with drill-down access for viewing location specific details
- Super Administrators have access to add/change location information and post alerts
- Most Expensive Patient feature lists patient by ID number and provided cost and detailed medication list
- Cost by Provider lists top prescribers by cost and fills to provide updated information for managers

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Valuable Tool

Correct Rx believes that this tool will leverage Williamson County to meet established medication use goals and manage overall healthcare costs within its facility. The ability to measure and monitor performance is a vital step to achieving sustainable success.

15. A computerized program interface linking the County Jail to the supplier must be available. Provide a detailed description of interface including any software and/or hardware that is required. If software and/or hardware are required, state whether it will be provided by the supplier or must be provided by the County.

Correct Rx's Electronic Ordering System

Correct Rx's electronic order entry system is a Windows and internet web-based application. Williamson County will connect to Correct Rx using no additional software. Correct Rx will provide each user with the appropriate credentials to access the system. The system will allow the facility to perform the following tasks:

- Creation of new patient records;
- New prescription order entry;
- Refill prescription order entry;
- Advanced reporting capabilities, including;
- Drug utilization reporting;
- Patient Profile reporting.

The system will provide the prescription history for each patient; status, drug, fill#, doctor, last fill, quantity and sig. The system that is used to transmit orders electronically can be operated from a computer with Windows XP or any other more recent generation and no other software or equipment. Using the internet each facility is able to connect to our application server at Correct Rx. Williamson County would connect to Correct Rx using a remote desktop connection. Remote desktop is native to all Windows operating systems and provides end to end security for the protection of all data being transmitted. There is no software to be installed and allows for different levels of role- based security, i.e. prescriber, non-prescriber, etc. Correct Rx will provide each user with the appropriate credentials to access the system. Correct Rx will conduct on-site user training on both access and use.

Refills

Correct Rx will work with the HSA to develop policies and procedures relating to the ordering and transmission of refills. We will develop not only an agreeable and preferred method of transmission of orders, but also the policies surrounding timing and appropriateness of those orders. Currently, refill orders can be transmitted to

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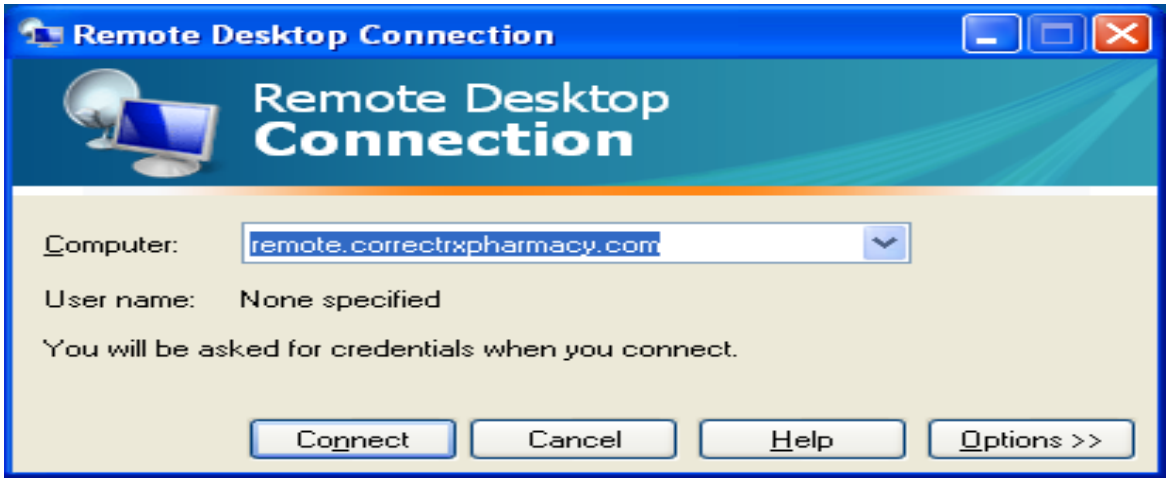
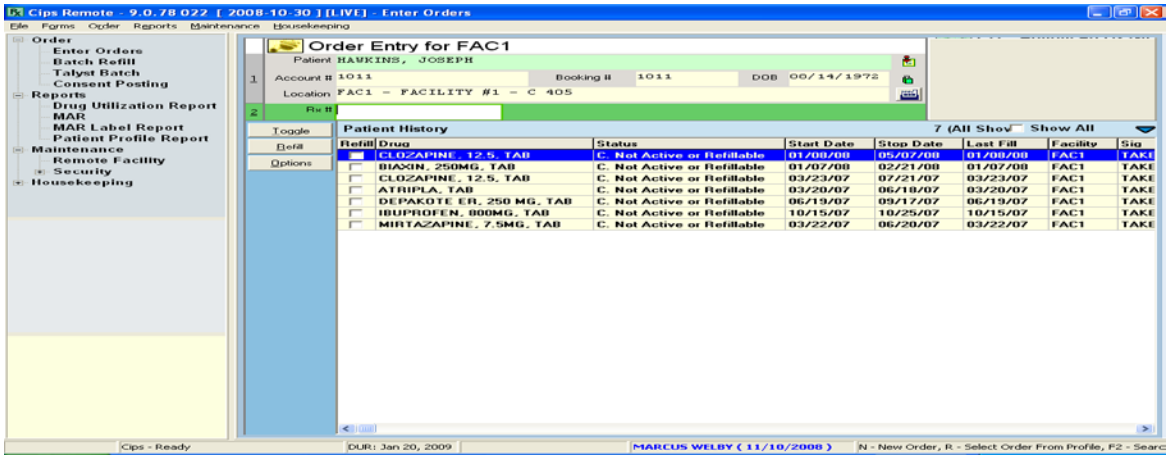
the pharmacy utilizing our electronic order entry system, our web-based barcode system, orally via telephone or via facsimile. Our web-based program allows for medication refills simply by scanning the refill barcodes and then hitting submit.

The order goes to Correct Rx electronically via the web and the prescriptions are received by Correct Rx instantaneously, dispensed and ready to be delivered with the next delivery. This website feature is executed in real time. Medications can always be refilled utilizing our electronic order entry system, by faxing or calling the pharmacy, which serves as a back-up should the facility be unable to access the web or if there are other unforeseen technical difficulties. Correct Rx's Bar Code Scanning technology has provided significant time savings to the nurses ordering medication and resulted in higher accuracy for our shipments.



The user interface (UI) is designed to have the look and feel of a Windows based application. This aids in overall ease of use and shortens training time. The main order entry screen for the system is shown below. The system will provide the prescription history for each patient; status, drug, fill number, doctor, last fill, quantity and Sig.



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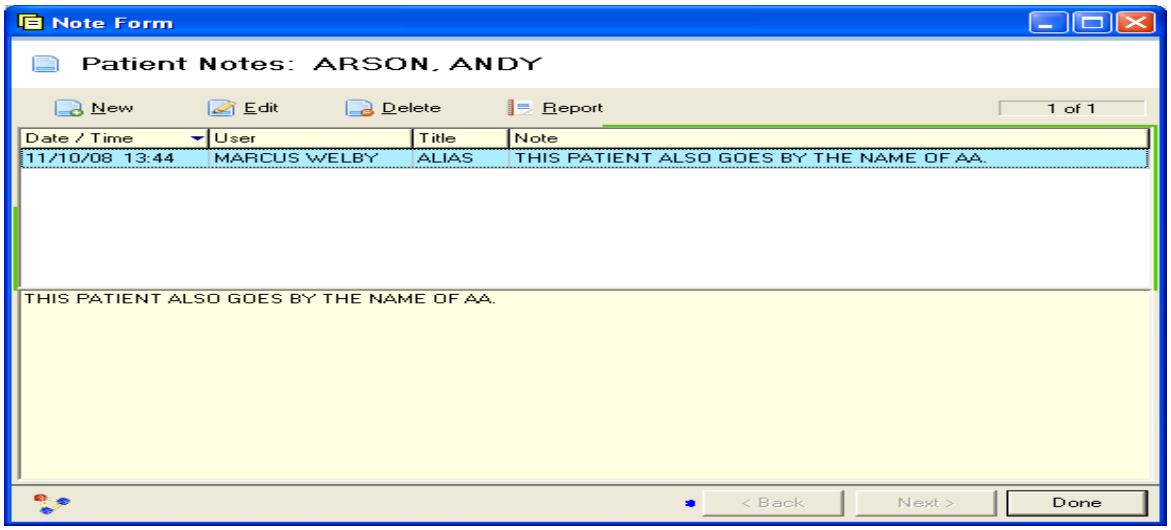
Displayed in a tree format and divided into four main categories: Orders, Reports, Maintenance and Housekeeping. The facility is connected directly to the patient profile. As the user enters orders, the system checks the patient profile for known drug allergies and the Med-i-span database for drug interactions. The system also checks against the drug formulary. Patient notes can also be entered by selecting the patient notes button next to the patient name.



Patient allergies can be checked by simply clicking the green icon to the right of the patient's date of birth. The main refill order entry screen allows Rx numbers to be typed or scanned, using a Correct Rx provided scanner, into the Rx number field. The user is told which prescription numbers are ready for refill and which are unable to be refilled.

Reasons for the refill not to be processed include refill too soon and prescription expired and are shown in the lower right hand corner of the screen. This allows for reducing the back and forth between the facility and pharmacy in dealing with refills that are unable to be processed. This improves overall quality and reduces errors.

Patient Medication Profiles: Drug Interaction and Monitoring System

Correct Rx utilizes correctional specific software. This software maintains a patient database which includes the patient name or alias, patient ID number and allergies. Additionally, it requires a pharmacist review of all patient orders prior to filling and dispensing medication from our pharmacy.

Specifically, our software necessitates review of potential drug interactions and contraindications. Each order review captures the electronic signature of the pharmacist whom examined the order and our system does not allow for dispensing of medications without a review of the order by our pharmacists.

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Correct Rx provides licensed pharmacists who are experienced in correctional medicine and mental health services to screen all prescription orders for accuracy, completeness and formulary compliance prior to dispensing. A Correct Rx Pharmacist understands that the dynamics and the acuity level of the correctional population are more complex than those served in the community. All prescriptions dispensed by Correct Rx are checked a total of three times by a registered pharmacist. This triple checking system, along with our advanced automated bar code technology and aggressive QA program, results in a low error rate. The final check is an additional Quality Assurance step to ensure that the drug, strength and quantity match the information on the label before being dispensed.

Clarification of Orders

It is the policy of Correct Rx to notify the prescriber of problems associated with the medication order, including significant potential drug-to-drug interaction, inappropriate strength, route of administration, scheduling or noted medication allergy. The prescription computer flags the medication as interacting inappropriately with the new order. The pharmacist reviews the interaction, determines its authenticity, and determines whether or not it is a medically justifiable interaction, which warrants a hold. If a hold is warranted, the pharmacist calls the facility and speaks with the nurse on the unit to notify personnel that a hold has been placed on the new order.

The pharmacist informs the nurse of the reason and contacts the physician. When an order is held, no medication is sent until the pharmacist and the physician resolve the problem. Once the physician orders the appropriate medication the medication will be sent. These procedures will also be followed for drug allergies. The facility should alert the pharmacy immediately of known drug allergies by completing the allergy section on the physician order form. If patient has no allergies, then use the abbreviation “NKA”.

Correct Rx Preferred eMAR Solution

Our software provider is Kalos, Inc. They offer the preeminent correctional pharmacy software system with over 35 years of experience. Kalos directly contracts with eight (8) State systems and DHS/ICE. Highlights of their system include Inventory Control, Web Based (hosted by Correct Rx), Tablet and PC compatible with offline functionality. Their eMAR, which is named sMARt shows what was ordered and what was sent, highlighting any differences. Clients are able to deploy multiple formularies across individual facilities and requests refills directly from the eMAR during med pass. This unified system was designed specifically to for ICE and meets all Federal security requirements.

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sMART an Electronic Medication Administration System

Correct Rx has direct experience with sMART an Electronic Medication Administration System developed by Kalos. This option is readily available to CMGC as outlined in the Pricing section. sMART is an electronic medication administration system developed specifically for correctional institutions with a built in interface compatible with most offender management systems. This system is an extension of CIPS and uses its electronic order entry platform to generate orders in sMART.

sMART capabilities

- High security and protection for patient information.
- Easy to use and implement in combination with CIPS Remote Order Entry
- Setup multiple med-passes by unit, wing, room and bed is made easy through an interface with many different offender management systems.
- Provides easy to read list of patients with number of medications, PRNs and Procedures like Blood Pressure, Finger Sticks or pulse.
- Uses barcode technology to identify patients and their medication blister cards to ensure the 5 rights of medication administration.
- Large assortment of reporting functions: Medcall List, Missed Dose Report, Refusals, KOP orders Due, Exceptions, Orders to be pulled, Pass Scans, and Patient Bar Codes
- Ability to Manage Self Medication Program
- Print paper copy of MAR when necessary or for patient's medical record.
- Compatible with tablet devices that use touch screen technology.
- Medication administration work flow tool: provides visual tracking of how many med administrations are due and how many are left.
- Displays patient image when loaded into sMART database.
- Order Verification process for added medication safety
- Ease of use with verbal order functionality for nurse protocol medications like OTCs.

HIPAA Compliance

Correct Rx is committed to preserving the privacy and confidentiality of our patients and their health information. Correct Rx conduct's all of its business in compliance with all applicable federal, state and local statutes, regulations, rules and policies, including but not limited to, the Health Insurance Portability and Accountability Act of 1996 ("HIPAA").

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In addition to the standards and of practice and procedure within the pharmacy as it relates to patient healthcare and record keeping that are HIPAA compliant Correct Rx utilizes a correctional pharmacy software package that has monitored the Health Insurance Portability and Accountability Act (HIPAA) since it was signed into law on August 21, 1996. The combination of Correct Rx's internal procedures along with Kalos provides assurance that confidential patient information is secure.

16. Supplier shall provide on-site quarterly inspections by a registered Pharmacist at no additional charge upon request by the County.

Quarterly On-Site Inspections

Correct Rx will conduct quarterly on-site inspections which shall be standardized and include aspects of pharmacy from the point of prescription order handling, through dispensing, administration/distribution, through the act of documentation. The pharmacist will inspect all areas where the medications are stored and maintained at Williamson County. The inspection shall cover other aspects of pharmaceutical management such as storage conditions, security, disposal practice, return of unused medications, and documentation of inventory management for stock medications, psychotropic medications and controlled substances. Security aspects such as double-locking are also included as well as a survey of the physical plant to include light, temperature control, moisture, and refrigerator use. The inspecting pharmacist produces a report from each inspection and suggests correction action plan for any areas found problematic. Correct Rx shall provide timely follow up and problem resolution on any issues within its area of responsibility.

Correct Rx Credentialed Pharmacist Review

Correct Rx utilizes a unique model to provide on-site visits to eliminate barriers to success. The visits are performed by fully credentialed pharmacists who are knowledgeable regarding the safe, reliable and cost effective utilization of medications in correctional healthcare. Our licensed clinical pharmacists are full-time employees of Correct Rx and have completed post-graduate residencies in pharmaceutical care and hold Certification in Correctional Health Care (CCHP). This requirement ensures Williamson County that our pharmacists are knowledgeable of the industry and regulatory standards and provides credibility with the multidisciplinary team onsite.

Correct Rx provides consistency with the individual pharmacists used to perform the quarterly audits because we believe it is essential for our pharmacists to establish professional relationships with custody, management, Williamson County specific healthcare team. The personal attention and face to face interaction that our clients receive yield better outcomes because the relationship makes it easier to communicate expectations, discuss issues, and resolve problems.

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The Correct Rx on-site visits are designed to provide valuable insight into the operations at the facility level. Correct Rx's inspections of medication storage areas, inventory records, and administration processes are required by all states as an integral and routine practice to ensure quality, safety, and compliance with state and federal laws. Correct Rx has consistently provided this service to our clients.

Correct Rx's inspections of medication storage areas, inventory records, and administration processes are required by all States as an integral and routine practice to ensure quality, safety, and compliance with State and Federal laws. Correct Rx has consistently provided this service to our clients. Correct Rx is familiar with standards on medication handling and administration established by the National Commission on Correctional Health Care (NCCHC), the American Correctional Association (ACA), and the Joint Commission (JC). The goal is to establish, maintain, and even exceed standards in between accreditations - not just to prepare for them. Even the best maintained organizations are faced with the continual challenge of training replacement staff or staying informed of new changes in standards of practice. Our pharmacists are able to identify deficiencies and provide recommendations or specific training to address issues that threaten quality and safety of medication use.

Comprehensive Audit Tool

Correct Rx utilizes an audit tool that we developed specifically to adhere to NCCHC, ACA, JC, DOJ and local requirements from respective State Boards of Pharmacies. The use of this tool standardizes the condition of the medication rooms for the facility. The inspection audit tool addresses Medication Storage, Controlled Substances, Emergency Medication Box, Medications and Labels, and Medication Administration and Orders.

By working collaboratively and cooperatively with administration, the respective healthcare teams and key nursing staff, Correct Rx provides clear and consistent feedback regarding regulatory compliance and meeting performance standards. Correct Rx identifies deficiencies and provides recommendations or specific training to address issues that threaten quality and safety of medication use.

Our reporting format provides immediate feedback at the specific site level, a summative narrative component that facilitates administrative monitoring and a CQI component that tracks the progress of corrective action as needed.

This multi-level approach provides a valuable resource for Williamson County and the respective healthcare teams to ensure patient safety, employee accountability, institutional security and regulatory compliance. The following items are inspected by the licensed pharmacist when conducting a review of the medication rooms:

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General Requirements:

- Licensing;
- Maintenance of Administrative Procedure (e.g., Location of the Formulary, Location of OTC Commissary List, Poison Control Information, and Drug Information References).

Medication Storage:

- Whether the medication room and carts are locked and that the locks are working properly;
- Appropriate personnel have access to the keys;
- Cleanliness of storage areas;
- Externals are separated from internals, and in turn, separated from medical supplies;
- Refrigerator is at the appropriate temperature and temperature logs are kept;
- Multiple Dose Vials are properly labeled when opened, stored and discarded in the appropriate time frame.

Controlled Substances:

- Counts are accurate and are being conducted according to standards;
- DEA Required Biennial Controlled Substance Inventory;
- Storage under double lock and key.

Emergency Medication Box:

- List of Contents are posted;
- Box is sealed;
- Documentation of monthly emergency medication checks.

Medication and Labels:

- Medications are properly labeled;
- No discontinued, expired, or deteriorated medications on hand;
- Medications are disposed of properly;
- Medications are returned to the pharmacy properly.

Medication Administration and Orders:

- Medication Orders are signed and dated;
- Stop Orders are adhered to;
- PRNs and refusals are properly documented;
- Personnel administer medications have signed and initialed the MAR.

Review of Findings, Summary Report, and Follow-up

The inspection reports will be discussed with the Director of Nursing or designee on site at the facility at the conclusion of every audit. Additionally, a narrative summary will be shared with Williamson County and healthcare teams to ensure issues are

resolved. This level of transparency provides the key healthcare managers with accountability designed to ensure regulatory compliance.

Additionally, Correct Rx is aware that quality improvement plans must be continuously assessed to ensure that audit findings are addressed and corrected in a timely manner. Our audit tool requires documentation that previous findings and recommendations have been attended to which is shared with Williamson County in the summary report.

Meaningful Quarterly P&T Meeting

In addition to the quarterly inspection, Correct Rx shall participate in a quarterly Pharmacy and Therapeutics Committee meeting to include review of the formulary and non-formulary usage, provider prescribing practices, drug utilization review, educational information, drug costs and other relevant topics to pharmacy operations. Williamson County's Medical Director shall determine the composition of the committee and approve the reports for the committee. The committee will be multidisciplinary in its membership.

Correct Rx's clinical department is known for its innovative clinical initiatives presented at the quarterly on-site P&T Meetings. The goals of high functioning P&T meetings are always to achieve improved patient care while complying with accreditation standards and assisting with maintaining a budget. Correct Rx has experience in chairing and actively participating in P&T meetings that result in improvement of policy and procedures, utilization alterations based on trend analyses and retrospective utilization review, and forecasted expenditures over the fiscal year.

Each P&T meeting provides an opportunity to support each site's providers and administrative staff in their efforts to contain medication costs and achieve their budgetary goals. During the P&T meetings our clinical pharmacist will review the quarterly statistics including but not limited to the following areas:

- Overall medication costs;
- Nonformulary medication use by cost and quantity;
- HIV and Hepatitis C associated costs;
- Psychotropic costs;
- Per Client Per Month;
- Drug costs by disease state;
- Top 50 Medication Use;
- Practice Guideline Review;
- Recommendations for cost-effective and quality enhanced medication use policy.

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Correct Rx is dedicated to supporting and increasing Williamson County's oversight of medication utilization at the site level. The P&T will be instrumental in fostering a strong partnership between clinical pharmacy initiatives and Williamson County's healthcare agenda and in developing policies and procedures regarding medication administration, ordering and storage.

Dr. Seo and Dr. Barnes both fully credentialed clinical pharmacists with years of correctional pharmacy experience are prepared to act as fully engaged members or Chairpersons for the P&T Committee.

Correct Rx recognizes the P&T Committee as the primary formal link that establishes communications between the health care practitioners, the pharmacy, and Williamson County as it relates to the use of medications in the healthcare system. Correct Rx will provide utilization reports to the Committee which will allow all to assess the use of medication in certain disease states, the uses of medication by provider, the use of formulary and non-formulary drugs and specified drug costs.

The Committee will also be responsible for maintaining the drug formulary and making recommendations to Williamson County for changes. Indeed, all matters pertaining to the use of medications within Williamson County, including pharmacy programs, should be reviewed and approved through the committee. Cost saving formulary management recommendations will be provided to ensure cost-effective prescribing.

Correct Rx will not only produce the data but will provide Williamson County an action plan that includes therapeutic recommendations based on primary literature and community standards. Correct Rx systematically reviews relevant disease states and provide clinical practice guidelines that are tailored to the specific correctional healthcare system. We provide detailed data regarding how these disease states are treated within Williamson County's system and then apply clinical practice guidelines. This process ensures that Williamson County provides a high standard of care with cost-effective medications.

The P&T committee will also serve as an excellent vehicle to provide relevant pharmaceutical updates. This collaborative and well informed approach will make a difference in the quality of care and overall cost to Williamson County's healthcare budget.

Subject Matter Experts

In addition, Correct Rx will provide guest lecturers as appropriate to assist the P&T Committee in obtaining updated pharmaceutical information, information on the availability of new drugs and in evaluating available evidence regarding the relative safety, efficacy, and effectiveness of prescription drugs within a class or classes of

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prescription drugs. The P&T Committee will make recommendations to Williamson County for deliberation in updating its formulary.

Cost Controls

Correct Rx's clinical pharmacy department understands the fiscal challenges of providing healthcare in correctional facilities. Our clinical pharmacists not only review medication cost and utilization trends during quarterly P&T meetings, we develop actionable plans to contain costs. Correct Rx's clinical department incorporates the latest managed care tools to facilitate responsible prescribing and cost containment which include: preferred drug list enforcement, nonformulary approval program, stock lists, quantity limits and retrospective drug utilization reviews.

Examples of Healthcare Quality Improvement and Cost Containment Initiative

P&T Initiative	Process	Result
Compliance with new FDA guide to minimize risk of statin related adverse drug events	Identification and analysis of patients prescribed the FDA contraindicated combination of statins with gemfibrozil and calcium channel blocker	Discontinuation of unnecessary medication saving on dispensing fee. Prevention of adverse medication event saving on overall healthcare expenditure
Decrease hypoglycemic events and improve diabetes control	Detailed analysis of insulin use to promote cost effective prescribing and dose optimization	Improve formulary compliance Decrease stretcher calls and sick calls related to hypoglycemic events Cost savings on emergency room visits
Optimize HIV regimen	Identify patients who are at risk for significant drug interactions with HIV Regimen. Educate prescribers and nursing staff.	Prevention of adverse drug event. Prevention of subtherapeutic HIV regimen.

Correct Rx's clinical pharmacists have been instrumental in controlling medications associated with high cost treatments like psychotropic, HIV, anticoagulation, dialysis, and Hepatitis C treatment. We also provide updated clinical pathways for the treatment of mental illnesses.

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Medication Utilization Management

Correct Rx will build a partnership with Williamson County to provide comprehensive and prospective medication utilization management through our operational efficiencies and clinical pharmacists. The dispensing pharmacy staff closely monitors dispensed quantities and fill dates. In addition, Correct Rx offers customizable package sizes to eliminate unnecessary medications at the facility. A clinical pharmacist will be assigned to monitor and review medication use and educate prescribers on safe, cost-effective prescribing. A more detailed discussion of medication utilization management is provided in the description of our clinical programs.

Drug Utilization Reports

During P&T Committee meetings, Correct Rx provides an analysis of medication utilization data. Correct Rx breaks the information down into formulary costs, nonformulary costs, HIV medications costs, Hepatitis C medication costs, and psychotropic medication costs.

The analysis also presents performance indicators such as cost per patient and number of orders per patient. Medication expenditures are analyzed by chronic disease states such as asthma, hypertension and diabetes. The pharmacists track and trend the utilization data in order to identify changes in prescribing pattern or the patient population.

The P&T Committee meeting is a forum established and tailored to provide reduced medication costs and meet the need for continual monitoring of medication use, application of pharmacoeconomic principles, to develop a sound formulary, management of drug costs, and knowledge regarding standards of care. A Correct Rx consultant pharmacist will schedule a visit prior to each P&T Committee Meeting to assure that inspection reports can be shared at the meeting, issues can be discussed, and any necessary administrative can be actions taken.

17. Award of Proposal, if any, will be made to the responsive or responsible Pharmaceutical Supplier submitting the overall best proposal, with 40% of the evaluation weight on having the lowest cost consisting of the current average wholesale price (AWP) minus percent (%) discount plus a dispensing fee (if applicable). Alternative pricing models may be considered. The publication used to determine average wholesale price should be provided by each proposer.

Award of Proposal - Weighting

Correct Rx acknowledges and understands.

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18. Proposers overall mark-up prices shall include cost of shipping and delivery of the pharmaceutical item to the designated delivery point and shall not include Federal or State of Texas sales, excise, and use taxes.

Overall Mark-up Prices

Correct Rx acknowledges and will comply.

19. Proposer shall provide three (3) price list copies plus one original with their proposal.

Price List

Correct Rx acknowledges and will comply. We have submitted electronically per the terms of the Bid Specifications.

20. The preferred order method for new prescriptions and refills shall be online, however, orders placed by fax or phone shall be accepted. Additionally, emergency "stat" ordering shall be done by phone.

Ordering Medications

Correct Rx receives and fills orders 24 hours a day, 7 days a week, and 365 days a year, we are officially open from 6:00 a.m. to 8:00 p.m. ET Monday through Friday; 8:00 a.m. to 5:00 p.m. ET Saturday, and 9:00 a.m. to 5:00 p.m. ET Sunday. We are open beyond our business hours and have employees in the pharmacy and office before and after the posted times. A Correct Rx pharmacist can be reached at all times, 24 hours a day, 7 days per week. Also we provide each facility with the designated on-call pharmacist's cell phone for immediate access.

In this contract, the preferred method for new prescriptions and refills shall be online through our ePrescribing system. However, Correct Rx provides our clients with the following options: (1) Fax and Fill; (2) verbal orders; (3) emergency "stat" ordering; and (3) through Interface with comprehensive electronic health record.

Correct Rx utilizes multiple phone and fax lines in order to prevent unnecessary busy signals or time delays. This will provide a higher level of service and accountability. Additionally, as a pharmacist owned and operated business the owners of Correct Rx are always available by telephone. We pride ourselves on our customer service.

See our response to Question 15 for a detailed explanation of Correct Rx's electronic ordering system.

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Backup Ordering System: Fax Machine

Correct Rx will supply an industrial strength high quality fax machine for the transmission of new and refill medication orders if necessary. Correct Rx will be responsible for any necessary maintenance and supplies for the fax machine. The fax machine will also be used to communicate information between the pharmacy and the medical units. Correct Rx will make sure as part of our start up process that each fax machine is programmed with Correct Rx's toll free fax and phone numbers prior to the start of the contract.

High Speed Fax Server & Electronic Imaging of All Orders

Upon receipt at Correct Rx, our fax server will automatically transmit a verification receipt that the fax has been received. This verification will be sent to the transmitting fax machine. Correct Rx will contact the sender only if there is an exception, missing page, duplicate page, or unreadable text. Correct Rx has the capacity to accommodate all faxed orders transmitted by the facility healthcare staff to be filled by Correct Rx. Received orders are routed directly to specified electronic folders making the overall process faster and more robust. An electronic image of all orders will be stored on the system's hard drive. This allows for the easy retrieval of orders previously sent.

See our response to Question 23 for a detailed explanation of emergency stat orders.

21. Delivery of all items supplied under this contract shall be made FOB destination. The proposer shall provide next day delivery for all items ordered by 4:00 PM the previous day. Deliveries shall be made Monday through Saturday. Orders received by vendor on Saturday shall be delivered on Monday.

Medication Delivery

Correct Rx's strategic Linthicum location is less than five miles from the Baltimore/ Washington International Thurgood Marshall Airport. Given our relationship with UPS, the volume of business we provide them, and the fact that we are so close to the airport, Correct Rx is afforded a later pick-up time from this nationally reputable carriers. All new and refill orders transmitted to Correct Rx by the designated cut off times will be delivered the next business day within 24 hours excluding holidays.

This combined with our extensive correctional experience will provide Williamson County with front door service. Deliveries will be made directly to the designated area identified by security. The facility will receive deliveries up to six days a week. Correct Rx has agreements in place with UPS to ensure they provide the most dependable service to Georgetown, Texas. Also, Correct Rx's shipping department

is able to track all overnight packages online with both carriers. Our delivery statistics show successful deliveries exceed 98.5% and we are instantly notified if there is a potential delivery problem.

Same Cut off Time for both New and Refill Orders. Extended Cut off time for Emergency Needs, reducing the need to use Emergency Backup.

It is important to note that Correct Rx does not have a different cut off time or delivery schedule for refills! All new and refill orders transmitted to Correct Rx before 4:00pm ET **Monday through Friday**, will be delivered the next day within 24 hours excluding holidays. All prescriptions transmitted to Correct Rx before 12 noon on **Saturday**, will be delivered on Monday. While we cannot extend the cutoff time for a high volume of orders, if a facility calls after the cutoff time and requests to have a few high acuity orders filled, we are often able to oblige as the delivery truck may not leave Correct Rx until 8 or 9 p.m. Monday through Friday. This added benefit ensures continuity of care and no lapses in medication therapy. In addition, this next day service will reduce the volume of returns and the need for excessive interim emergency medications.

22. Supplier will be required to maintain all records for five (5) years. These records shall be the property of the county.

Maintenance of Records

Correct Rx acknowledges and will comply with this requirement.

23. The proposer's representative must be available to respond to all calls from the using county agencies to assist in filling emergency orders, resolving complaints and problems regarding orders and deliveries and the return of goods.

Customer Service Triage Plan

"Consultation Services" involve getting answers to your questions and being given assistance in resolving a problem or concern. Being responsive to our customers' concerns is part of doing things the "Correct Way." We have added this information here to assure Williamson County that we understand the importance of providing the range of "consultation" services and are prepared to answer your questions and address your concerns. Capsules come in many colors, but Correct Rx knows the issue of customer service is black and white. The "Correct Way" means front door service. The following processes are in place to ensure that all concerns are handled properly:

- **Operational Calls:** Whether the call is concerning an order, locating a shipment or simply a question concerning pharmacy procedures, it will be handled immediately. The receptionist/technician will triage the call or problem to your facility specific technician, an experienced pharmacist

or if needed to the Program Management Team Leaders: John R. Nattans and or Vice President of Operations, Joe DeMino, PD.

- ✓ Every phone call is personally answered by a qualified Correct Rx associate. You will not end up in an automated voice mail system unable to reach a real human being.
- ✓ Once the call is answered, our staff is trained to listen carefully and then triage the call to the appropriate Correct Rx Associate.

- **Clinical Questions:** Therapeutic inquiries are referred to one of our doctoral trained pharmacists or directly to Dr. Hui Seo, Chief Clinical Officer. Whether the question is about the formulary or regarding a complex medication regimen, the answers are thoroughly researched and are always based on sound medicine. Our clinical department is staffed by fully credentialed clinical pharmacists who are PharmDs and have completed at least one year of post-doctoral training.

- **Billing Questions:** Questions concerning invoices are triaged to the accounting department. Our billing specialists actively work to resolve any questions. Correct Rx has identified Maria Swartz, Staff Accountant, as the financial liaison for the Williamson County contract. Maria has specific correctional pharmacy accounting and billing experience. Ms. Swartz's efforts are supported by our Controller, Mr. Don Bossle and the Chief Financial Officer, Ms. Gabrielle Melka.

- **Immediately Available:** When you contact Correct Rx we are immediately available. Everyone from your facility specific technician, to the Clinical Program Liaison, to any one of the owners is ready to meet and address any issues. Our reputation for follow through and integrity is well known.

- **Program Management:** Correct Rx has assigned John Nattans, MC, and Dr. Hui Seo, to act as the liaison between pharmacy operation's Vice President, Joe DeMino and Williamson County. Mr. Nattans and Dr. Seo along with Mr. DeMino will work to ensure that Correct Rx not only meets, but exceeds your expectations. We are proud of our reputation for working successfully on multidisciplinary healthcare teams in corrections. Williamson County will find that Correct Rx delivers exactly what we promise.

- **Facility Specific Technicians:** Correct Rx will dedicate specific pharmacy technicians to this contract. In this manner, when a health

professional has a question about an order, an experienced technician familiar with your institution will respond.

- **Audit Results:** The results of the medication room audit will be reviewed with the appropriate members of the facility healthcare staff. A copy of the written report will be provided to all designated personnel. Recommendations and Corrective Action will be documented and followed for compliance.

  Our reporting format provides immediate feedback at the specific site level, a summative narrative component that facilitates administrative monitoring and a CQI component that tracks the progress of corrective action as needed. This multi-level approach provides a valuable tool to ensure patient safety, employee accountability, institutional security and regulatory compliance.

- **In-Service and Training**: Education and training of the staff are key components of a quality assurance program. Correct Rx provides expert trainers that help our staff use their resources to the fullest potential. Associates are encouraged to take time to learn and explore new ideas that they can bring back to the group discussions. Correct Rx believes that the outcome of education is a better product and service. If it is accurate, then it is Correct.

- **Clinical Expertise 24/7:** Correct Rx will provide an on call consultant pharmacist twenty four (24) hours a day, seven (7) days per week. After normal business hours, a pharmacist can be reached at all times via cellular telephone.

- **Quality Assurance:** Correct Rx has an extremely active QA program that incorporates all aspects of our operation. Each member of our team has embraced the Correct Way and understands the importance of consistent accuracy.

- **Accuracy:** Correct Rx monitors all discrepancy reports and calculates our discrepancy rate every month. This information will be shared with Williamson County but more importantly alerts Joe DeMino, Vice President of Operations of any significant trends.

- **Problem Resolution:** If any concern is unresolved or your facility staff is not satisfied with the resolution, the problem will be triaged to Ellen Yankellow, PharmD - President and Chief Executive Officer of Correct Rx.

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- **Something Extra:** You can always expect something extra from Correct Rx. Whether it's producing an accurate report, preparing or resending an order, or taking a call after business hours, we're happy to assist you.

  The chart provided on the next page provides a graphic representation of how our Customer Service Triage System works. Please note: The Triage Flow Chart does not replace the organizational chart.

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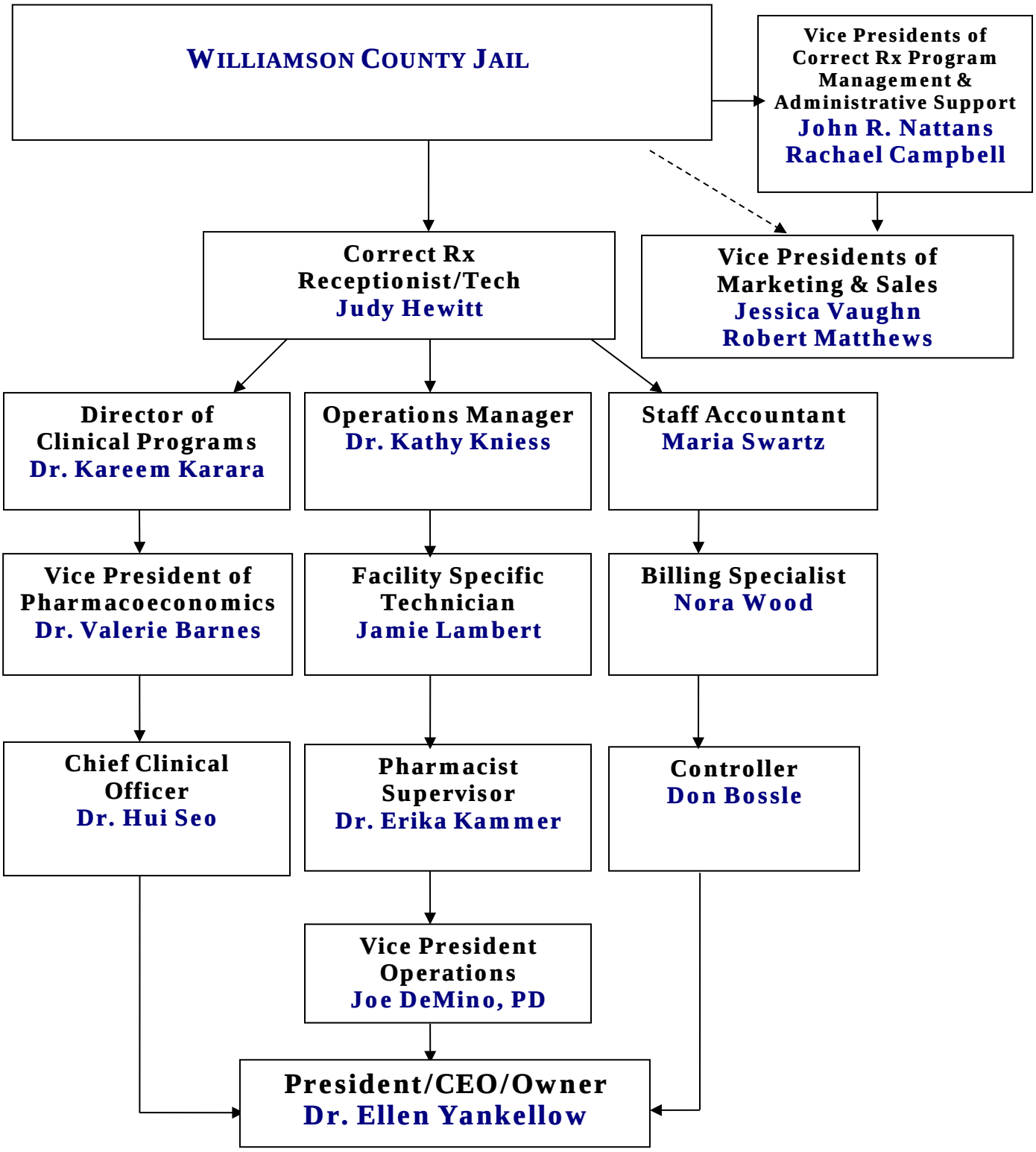
CUSTOMER SERVICE TRIAGE CHART



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Emergency Telephone Consultation coverage 24/7 365 days a year!

Correct Rx will provide an on call consultant pharmacist twenty four (24) hours a day, seven (7) days per week. After normal business hours (Monday through Friday: 6:00a.m. - 8:00p.m., Saturday 8:00a.m. - 5:00pm., and Sunday 9:00a.m. – 4:00p.m.), a pharmacist can be reached at all times. Clinical recommendations to nursing and prescriber staff regarding therapeutic alternatives are provided.

All of our on call pharmacists are able to access the patient's profile from home and are knowledgeable concerning each facility's needs and resources. They will have the local back up pharmacy information for Williamson County. Finally, each facility will have the personal cell numbers for our Operation's Manager, Kathy Kniess, PharmD and our Vice President of Operations, Joe DeMino, PD.

Web Based Drug Information Program: *Ask a Correct Rx Pharmacist*

In addition to consulting with our pharmacy, Correct Rx is dedicated to front door service and also offers an internet based service called "Ask a Correct Rx Pharmacist." The website is another avenue through which all members of the health care team can request clinical information.

Providers are able to request clinical medication information by utilizing our website. Questions can include drug monographs, therapeutic economic comparisons, or patient specific disease state management issues involving medication therapy. Users should receive a response either through email, fax, tele-video conferencing, or direct telephone consultation. Responses are formulated by clinically trained pharmacists and are returned in a timely manner; within 24 to 48 hours. Just click the "Ask a Question" button, fill in the blanks and you have an answer to your question within 24 hours.

Emergency Back Up Pharmacy Services

Correct Rx has contracted, through a choice of two Pharmacy Benefits Managers, with an extensive nationwide network of local pharmacies to provide emergency or stat needs at a highly competitive rate. Williamson County will be given a group number and access code. Correct Rx along with our PBMs and will research which back up pharmacies are the most convenient and have the best hours of operation. The facility is not restricted to just one backup emergency pharmacy.

Emergency Back-up Process

Correct Rx has developed and easy to use, simple step by step customized process that allows the facility to access the local pharmacy without needing to call Correct Rx first. Instructions on this process of ordering medications are covered during

implementation training with the medical staff. The procedures are also posted in the medical unit as part of our contract implementation plan and our staff is available 24 hours a day by telephone to provide assistance with accessing the back-up pharmacy if any help is needed.

Our goal is to provide solutions for your facility that are easy and efficient thus allowing for better access to care. Our clinical pharmacists provide direct assistance and oversight for the use of back-up pharmacy services. Our network of local pharmacies is able to assist with processing medication orders when there is an urgent need. However, if Williamson County would like to send us the emergent orders and have us call them in to the back-up pharmacy, we are equipped to do that as well.

The exact details of how to access the emergency pharmacy along with the approved procedures will be reviewed with the medical staff and posted in the medical unit during the on-site implementation plan. We are confident that this national network, which includes every chain and independent pharmacy, will more than meet the needs of Williamson County and will allow for STAT delivery of medication.

The emergency order is filled by the backup pharmacy of their choice and invoiced directly to Correct Rx. If delivery is required this will also be arranged by Correct Rx in coordination with Williamson County and invoiced directly to Correct Rx.

24. The proposer shall provide a local telephone number or a toll free number from Georgetown, Texas for the placement of calls against this contract and shall provide the name, title, and telephone number of a representative who can be contacted and available to provide around-the-clock, 24-hour, 7-days a week, customer service. Telephone numbers provided for this purpose shall not be serviced through an answering machine or other automatic answering device, or in any manner to impede immediate access to a representative capable of addressing emergencies and problems.

i. Name _____
ii. Phone Number_____ _____
iii. Emergency Order Phone Number_____
iv. Fax Number_____

Correct Rx Contact for the Placement of Calls against this Contract

Correct Rx acknowledges and will comply.

i. Name: Joseph DeMino, PD, Vice President of Operations (or on-call designee)
ii. Phone Number: 1-800-636-0501

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iii. Emergency Order Phone Number: (410) 417-7294
iv. Fax Number: 1-800-636-9752

25. All orders will be placed through the issuance of a purchase order. The purchase order number must be referenced on all invoices submitted to Williamson County.

Purchase Order

Correct Rx acknowledges and will comply.

26. Williamson County would prefer to have a vendor with substantial experience working in correctional facilities. Please provide your firm's years of experience in a correction's environment.

Corporate History and Background

Correct Rx was established as a Maryland corporation in 2003 and have been providing correctional pharmacy services for the past 14 years. We are a full service pharmacy available 24 hours a day, seven days a week, providing accurate and timely dispensing and delivery, with personalized billing services, while infusing clinical pharmacy throughout the entire company.

Correct Rx is the national leader in institutional and clinical pharmacy filling between 15,000 and 18,000 prescriptions daily (Maryland Pharmacy Permit No: PWO234 / Distributor Permit No: D01558). Headquartered in Maryland; we are strategically located next to BWI airport to service facilities in all time zones. Correct Rx provides services for over 110,000 offenders in more than 250 correctional facilities in the United States. We provide services for both adults and juveniles in all types of public and private facilities. Correct Rx serves County, State and Federal (US Marshal, ICE, Bureau of Prisons, Bureau of Indian Affairs) inmates. We have contracts directly with State and County clients as well as subcontractor agreements with nationally recognized institutional healthcare companies and private prison companies.

Texas Experience

Correct Rx is licensed in all 50 states and currently provides correctional pharmacy services in 30 states and Washington D.C. More importantly, Correct Rx has a great history of servicing facilities in Texas and we are the current pharmacy provider for these Texas facilities: Big Spring, Central Texas Detention Center, Correctional Center, Brooks County Detention, Coastal Bend Detention Center, East Hidalgo Detention Center, Ector County Correctional, Fannin County, Galveston County Jail, Grayson County, Joe Corley Detention Facility, Karnes County Correctional Center, Kinney County, Liberty County, Midland County, Randall County, Reagan

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County, Reeves County Detention Complex (R3), Rio Grande Detention Center, Val Verde Correctional Facility and Winkler County.

We provide our clients cost savings through operational excellence and cutting edge clinical programs.

CorrectRx
PHARMACY SERVICES

PRICE SHEET

Correct Rx PHARMACY SERVICES

Price Proposal

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Correct Rx is pleased to present this comprehensive Cost Proposal to Williamson County. We understand the specific requirements of this RFP and have developed our response while carefully considering all of the costs that are necessary to provide the best solution to Williamson County.

Better Outcomes and Lower Cost

Correct Rx has built our company on the foundation of providing better outcomes and lower overall healthcare costs for our clients. Our only focus is achieving optimal healthcare results for the clients that we serve – *the best possible medical outcomes while reducing overall healthcare costs.*

Medication Costs

Government agencies are facing tremendous budgetary pressure given the current economic climate. State budgets have been especially hard hit with lower tax revenues and decreased federal funding. Yet constitutional rights, regulatory bodies and our own sense of dignity and ethics require that we continue to provide the same level (if not better) of comprehensive healthcare services for the patients we serve. This is true all across our country and it creates tremendous budgetary pressure for state and local government agencies.

These difficult economic times certainly call for operational efficiency and strict program management, but to really make a difference there is a need for innovation, breakthroughs and game changers. By far the biggest cost contributor to the pharmacy services contract is the amount spent on drugs each month. And this cost is variable.

Which pharmacy vendor has the best plan to control this variable drug spend?

How to Determine the Best Value

In determining the Best Overall Value you have to consider four contributing factors to your variable drug spend: (1) Price per Pill; (2) Actual Pills Dispensed (3) the Quantity of Pills dispensed and (4) Patient Outcomes.

Clinical Pharmacy Approach equals Undeniable Value
This is a Game Changer

Institutional pharmacy vendors are buying medications at relatively the same cost; therefore, Correct Rx has devised a comprehensive pharmacy services program that is designed to be a “Game Changer”. We have focused solely on providing innovative services that control your pharmaceutical expenditures and reduce your overall healthcare spend.

This is accomplished through operational efficiency, strict program management and through, most importantly, leading edge clinical programs designed to achieve better patient outcomes. Better patient outcomes lead to healthier patients, which ultimately leads to lower costs.

Not Comparable to Buying a Fixed Commodity

The traditional approach of treating pharmacy as a commodity and attempting to cut costs by decreasing the price per pill and associated service fees, ultimately results in an increase in drug spending and a decrease in the quality of healthcare because this unwittingly cuts the clinical services and program management that actually proves to control the overall drug spend and jeopardizes the quality of care. Not to mention that poor healthcare services result in lawsuits, loss of clients, and regulatory investigations (e.g., DOJ, ACLU).

We know that the selection committee will place the proper consideration on the impact of each of the pharmacy services, including but not limited to: cost of drug, operational controls and efficiencies, formulary management/utilization review, quality assurance initiatives, I.T. offerings and Clinical Programs. Beyond the “price per pill” comparisons, the overall value of pharmacy services must factor in the following two variables:

- Selection and Quantity of Medications Dispensed each month
- The impact of Clinical Pharmacy Initiatives on reducing the overall costs of patient care

Throughout our RFP response we have attempted to articulate how we plan to address the specific needs of Williamson County by offering solutions that will have a measurable financial impact:

- Superior Contract Performance
- Operational Expertise
- Leading Edge Clinical Pharmacy Services
- Transparent Pharmacy Costs

Superior Contract Performance

Correct Rx has extensive experience in jails of your size and we believe contract management is an essential component of delivering a cost effective pharmacy service. We always set a goal of 100% compliance with the terms of the RFP and resultant contract**.** This is a deliberate and sound business practice. We all know it costs more to fix a problem than to do it right the first time. It is with great pride that we can attest that Correct Rx has never faced a liquidated damage or been found out of contractual compliance.

Price Proposal

September 18, 2017

Our approach focuses on fully understanding the requirements of the contract and then providing services that not only meet the standards, but exceed your expectations. Our reputation for doing what we promise is well documented and verifiable through all of our clients. Williamson County will be the recipient of this dependable program management and excellent work ethic. What we promise will in-fact continue to be a reality. Each facet of the Correct Rx program is monitored and adjusted as needed to address Williamson County's requirements. We hold ourselves to high standards and believe that the Williamson County deserves this level of integrity.

Operational Expertise

Correct Rx believes it is our years of correctional experience coupled with our attention to detail that have allowed us to successfully transition correctional systems large and small. Our clients have been the beneficiary of this organized, experienced approach.

Correct Rx will provide to Williamson County:

- **Routine Extended & Same Cut off times for New & Refill Orders**

  Correct Rx offers the same cut off time for new, refill and OTC prescriptions. This value added benefit reduces the frequency of use of the backup pharmacy network and facilitates continuity of care while reducing unnecessary expenditures. All existing, new and refill orders transmitted to Correct Rx by 4:00p.m. ET Monday thru Friday and 12:00p.m. ET on Saturday will be delivered the next business day.

- **Consistent and Dependable Delivery**

  Correct Rx is identified with operational excellence including a reputation for accurate and timely dispensing of medication orders. Correct Rx's status as one of the leading correctional pharmacies in the industry was earned by consistently meeting the daily needs of the facilities we service. Correct Rx's lean management strategy allows for customization and flexibility when it comes to operations and that sets us apart from our competition.

- **Customized Quantities and Reduced Returns**

  The quantity dispensed is adjusted to meet the needs of each facility. Correct Rx will make recommendations in concert with the Medical Director and the selected Medical Vendor regarding quantity dispensed based on our vast experience. For example, many of the high cost psychotropic medications that are not KOP can be dispensed one card at a time. There is no need to automatically send in a 30 day supply of watch take medications or PRN's.

The medical staff administering these medications will clearly be able to identify when the medication supply is low and a new card is needed. In addition, intake facilities and infirmaries are good examples of units that do not need a routine 30 day supply of medications. Correct Rx's willingness to adapt the quantity based on drug and facility type will be a big cost saver both on the dispensing side and corresponding returns.

Leading Edge Clinical Pharmacy Services

Correct Rx was founded on the principal that by providing leading edge clinical services and initiatives we would be able to improve our client's success in providing healthcare to the offenders under their custody. Innovation for the purpose of improving our client's results is the reason behind our investment in innovative clinical programs. Correct Rx maintains the opinion that improved outcomes means healthier patients, fewer complications and reduced overall costs to Williamson County.

The value of clinical pharmacy services is widely accepted in many healthcare systems and well documented in the medical literature. Correct Rx has invested heavily in the development of our clinical pharmacists, programs and initiatives in the correctional environment as we believe it is the real Game Changer.

Our clinical pharmacy services have been maturing over the past 14 years and are now providing outcome data that is validating real dollar value in the correctional healthcare setting. In our model the clinical pharmacists are active participants on the healthcare team. The pharmacy is not simply dispensing and delivering medications, but is intimately involved in collaborating with our medical and mental health partners.

Transparent Pharmacy Costs

Correct Rx believes in giving you the information you need to understand and manage your pharmacy costs. Our invoices show each patient, each prescription and each fill along with the description, quantity and cost. This can be easily compared to the delivery sheet to ensure that only what was received was billed. We also offer the same level of detail for returns and back-up pharmacy.

Correct Rx's Financial Stability

Correct Rx's healthy balance sheet and robust client list speak volumes. Correct Rx has been in business for 14 years. In that period of time Correct Rx has grown to a multi-million dollar corporation with no debt and sufficient resources to service any client. More importantly, all of this was accomplished without any funding from venture capitalists or outside funding. Correct Rx was immediately successful and profitable due to our years of correctional experience and the stellar reputation of the owners. We deliver exactly what we promise and our client list has grown exponentially as a result of our hard work, integrity and knowledge of the specific requirements of correctional facilities.

Price Proposal

September 18, 2017

Detailed Budget

1. Brand and Single Source Products

Correct Rx has completed the Price Sheet using the net price and the units of measure as defined in the RFP. The pricing is based on Average Wholesale Price **(AWP) minus 21% (Twenty One Percent) with NO dispensing fee** but not less than our actual acquisition cost.

2. Generic Products

Correct Rx has completed the Price Sheet using the net price and the units of measure as defined in the RFP. The pricing is based on Average Wholesale Price **(AWP) minus 93% (Ninety Three Percent) with NO dispensing fee** but not less than our actual acquisition cost.

2. OTC Products

Correct Rx has completed the Price Sheet using the net price and the units of measure as defined in the RFP. The pricing is based on Average Wholesale Price **(AWP) with no discount.**

Annual Rate Changes – No Increase Year Over Year

Correct Rx is proposing that we will retain the same pricing calculation for the base period as well as the first and second option years. This will ensure that the Williamson County is receiving consistent savings throughout the life of the contract.

Price Sheet Unit Prices

Correct Rx has completed the price sheet in Bidsync as required. We have entered the unit cost for each listed medication. For pills we have listed the net price per tablet or capsule. For non-solid medications we have listed the net price per ML or gram, as appropriate.

No Hidden Charges!!

Our price proposal includes all of these comprehensive services with no hidden costs:

- Same cut-off time for new and refill orders
- No charge for delivery
- No charge for med carts
- No charge for fax machines
- No charge for formulary development and maintenance
- No charge for non-formulary management

- No charge for Web Based Bar Code Check-In System
- No charge for Correct Rx Order Entry System
- No charge for quarterly medication room audits and P&T Meeting
- No charge for Monthly Utilization Reports
- No charge for Dashboard Report
- No charge for Customized In-service Training and Educational Programs
- No charge for Web Based Drug Information Program: *Ask a Correct Rx Pharmacist*.
- No charge for New Enhanced Video Training Tools

Return and Credit Policy

Correct Rx, in accordance with State and Federal Law, will provide a method for the return and credit of medication from Williamson County. Correct Rx recognizes the challenges of managing the economic and operational burden associated with storage of unused or overstocked medications. Correct Rx will assist Williamson County in realizing the economic benefit of returning medications by outlining standard procedures for the return of medication. Credit will be given for medications returned by Williamson County when the following criteria have been met:

- The prescription medication did not leave the control of the registered professional nurse or licensed practical nurse responsible for the security, handling, and administration of that prescription drug and that the prescription drug did not come into the physical possession of the individual for whom it was prescribed.

- The labeling and packaging of the prescription drug are accurate, have not been altered, defaced, or tampered with, and include the identity, strength, expiration date, and lot number of the prescription drug.

- The prescription medication was dispensed in unit dose packaging or original manufacturer's packaging.

- The prescription medication is not:
  - A controlled substance
  - Expired
  - Damaged
  - Deteriorated
  - Contaminated, adulterated, or improperly stored

All returned medications will be documented at the facility. The medications will be returned to Correct Rx at our expense. The medications will then be electronically scanned at the pharmacy for documentation, accountability and for purposes of providing credit.

Credit will be given on a monthly basis for all medications including half tabs and for full and partial cards that meet this criteria, comply with State and Federal regulations, have a value of at least $2.00 and which have more than 90 days remaining before their expiration date.

Credit will be issued in accordance with these regulations at Correct Rx's cost of the medication. **No charge will be assessed for re-stocking.** Note: DEA controlled medications cannot be returned to the pharmacy provider. Controlled substances shall be destroyed per State regulations and facility policies.

Emergency Back-Up Pharmacy

Comprehensive Network of Local Backup Pharmacies

In the event that there is a need to use back-up pharmacy services from a community pharmacy, Correct Rx partners with a Pharmacy Benefits Manager providing the Williamson County facility with easy access to a nationwide network of pharmacies (independents and chains). The claim is submitted electronically by the backup pharmacy and the bill is forwarded to Correct Rx for payment. The formulary and authorized quantity to be dispensed by the emergency backup pharmacies will be determined by Williamson County along with Correct Rx. Correct Rx provides training for all staff on-site on "when" and "how" to use these services. Also, a group number is assigned to each facility, which eliminates the need for a credit card, cash, etc. to be used for payment.

Correct Rx will then pass through these costs to Williamson County on our monthly invoice.

Conclusion

Correct Rx is offering a comprehensive pharmacy service that is not only designed to meet the individual needs of Williamson County, but is to provide a real "Game Changing" solution that produces undeniable value. Correct Rx understands that it is not the Price per Pill or the administrative fee that drives the costs for any system. The primary focus of our offering is to provide you with a holistic pharmaceutical services program that reduces your pharmaceutical expenditure and overall healthcare spend. We have outcome data that proves this statement. We know that this is accomplished through, operational efficiency, strict program management and most importantly through innovative clinical programs that achieve better patient outcomes. Better patient outcomes lead to healthier patients, which ultimately leads to lower costs and provides the Best Overall Pharmacy Program and "UNDENIABLE VALUE".

This is the "Correct Way!"

CorrectRx
PHARMACY SERVICES

SAMPLE CONTRACT

AGREEMENT TO PROVIDE PHARMACEUTICAL SERVICES

This agreement, by and between the Sample County on behalf of the Sample County Sheriff's Office (hereinafter _____) and Correct Rx Pharmacy Services, Inc. a Maryland corporation (hereinafter "Correct Rx").

STATEMENT OF WORK

Presently _____ is providing health care services to detainees at the Sample County Jail, (hereinafter referred to as "Facility"). As part of its contract responsibilities, _____ is responsible to provide medications to detainees at the Facility (hereinafter "Medications"). _____ wishes to utilize the services of Correct Rx and, correspondingly, Correct Rx wishes to provide such services to _____.

Now, therefore, _____ and Correct Rx do hereby agree as follows:

1. _____'s Utilization of Correct Rx Services

   For the term of this Agreement, _____ will, when available, make best efforts to utilize the services of Correct Rx for the providing of Medications at the Facility.

2. Term of this Agreement

   The term of this Agreement will commence on _____ with an option to renew for _____ (____) additional one-year periods.

3. Scope of Work

   Throughout the term of this Agreement, Correct Rx agrees to provide the following services at the Facility:

   - Fill and Deliver Prescription. Correct Rx will fill all Medications daily, Monday through Saturday. All orders transmitted to Correct Rx Monday through Saturday will be filled and delivered to the Facility in accordance with a mutually agreeable schedule. Facility agree to cooperate with Correct Rx regarding ordering schedule.

   - Holidays. Correct Rx will be closed on New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving and Christmas Day. Correct Rx will provide written notice to the Facility in advance of any changes in the schedule for ordering or delivery due to holidays.

- Emergency Service. Correct Rx will provide emergency medications that cannot be received through the normal delivery process from a contracted local emergency back-up pharmacy.

- Dispensing System. Correct Rx will dispense most medications utilizing a "blister card" medication packaging system.

- Medication Quantities. Correct Rx shall dispense oral tablets and capsule medications in quantities requested by the Facility depending on the frequency of the dosing and the needs of the Facility. OTCs can be ordered by Facility directly from an OTC wholesaler or in bulk from Correct Rx.

- Controlled Substances. Correct Rx agrees to provide all prescribed controlled substances in blister cards in compliance with applicable State and Federal regulations.

- Intravenous Fluids. Correct Rx will provide all requested intravenous solutions and related administration sets using the Add-vantage packaging system where available.

- Drug Box. Correct Rx shall maintain a drug box located at the Facility. Items in each drug box will be determined in consultation with _____'s Health Services Administrator and the Medical Director.

- Generic Medications. Correct Rx shall dispense all Medications generically unless there is no generic substitute. All generic medications will be A or AB rated by the FDA.

- Meetings & Inspections. Correct Rx shall participate in quarterly Pharmacy and Therapeutics Committee meetings with the _____ medical staff. Correct Rx shall provide a licensed consultant pharmacist to conduct quarterly inspections of all institutional areas where medications are maintained. Inspection shall include, but not be limited to, the expiration dates, security, storage and a periodic review of medication records. Site inspections of the Facility will be performed at no additional charge to the Facility or _____.

- Barcode System & Equipment. Correct Rx will institute the barcode scanning system at the Facility to view shipments, check in orders electronically and run reports at no additional charge to _____.

- Dashboard Reporting System. Correct Rx will provide _____ access to our proprietary web based program that will act as a nerve center where quantitative and qualitative information is readily available online, accessible 24 hours a day 7 days a week.

4. Liability Insurance

At all times during the term of this Agreement, Correct Rx shall maintain professional liability insurance coverage of, at a minimum, $1,000,000 per occurrence and $4,000,000 aggregate. In addition, Correct Rx shall name _____ as additional insured and provide a certificate of insurance evidencing such insurance coverage.

5. Pricing

a. Cost of Medications: For the services to be provided as documented in paragraph 3 supra, Correct Rx shall be paid as follows for all medications:

Pricing to be determined

b. Returns/Credits: Correct Rx will arrange for the pickup and return of all unused or discontinued medication. Correct Rx will allow 100% credit at Correct Rx's cost for return of full and partial cards of separately charged, unused solid medications with a value greater than $2.00. No re-stocking fee will be charged to _____.

All medications must be returned in the original container in which they were issued and have a minimum of 90 days shelf life remaining. Correct Rx agrees to abide by all Board of Pharmacy requests regarding return medications, and applicable laws of _____.

Controlled substances, specialty drugs, biologicals, and medications for which efficacy requires un-breached original manufacturers packaging upon opening are not eligible for credit.

c. Payment Terms: All invoices are due Net Thirty Days. A late fee of 0.05% per month will be applied to all past due balances.

6. Representation and Warranties.

a. Correct Rx Representations and Warranties.

1) Correct Rx represents and warrants that it is currently in compliance with all State, Federal and local pharmaceutical licensing requirements and that this licensing compliance shall continue in full force and effect during the term of this Agreement.

2) Correct Rx further represents and warrants that its dispensing of medications shall be in compliance at all times with governing State, Federal and Local pharmaceutical laws and regulations.

3) Correct Rx further represents and warrants that Ellen H. Yankellow has the necessary authority to enter into this Agreement on behalf of Correct Rx.

b. _____ Representations and Warranties

_____ represents and warrants that its duly authorized representative signing this Agreement has the necessary authority to enter into this Agreement on behalf of _____.

7. Notices

All notices or other writings required under this agreement shall be deemed to have been made when sent by certified mail to the following address or to such other address as the parties may designate in writing:

Correct Rx:

Correct Rx Pharmacy Services, Inc.
Attn: Ellen Yankellow, PharmD, President/CEO
1352 Charwood Road, Suite C
Hanover, Maryland 21076

Sample County:

8. Representatives

Correct Rx hereby designates Joseph A. DeMino, PD, Vice President of Operations, to be available to service the Agreement and resolve any problems which relate thereto. Similarly, Sample County designates _____ as its local contact. Either party may change the designated representatives at any time upon notification to the other party.

9. Termination

This Agreement may be terminated, with cause, by either party, upon ninety (90) days prior written notice. Termination must be made via certified mail to the addresses listed in Section 7 above. This notice shall describe with sufficient detail the nature of the default. The defaulting party receiving such notice shall have thirty (30) days from the receipt of such notice to cure the default(s). The party alleging the material breach will cooperate fully with the other party's efforts to cure the material breach during the cure period. If after the thirty (30) day period it is determined that the default(s) has not been cured then the contract can be terminated thirty (30) days after notification of failure to cure.

10. Correct Rx as Independent Contractor.

The parties acknowledge that Correct Rx is providing the services contemplated hereunder as an independent contractor and is neither an agent, employee, partner or joint venturer of, or with _____.

11. Indemnification

Correct Rx covenants and agrees that it will indemnify and hold harmless _____ and all of _____'s officers, agents, or employees from any claim, loss, damage, cost, charge or expense arising out of any act, action, neglect or omission by Correct Rx or any of its agents, representatives or employees, during the performance of this Agreement, whether direct or indirect, and to any person or property to which _____ or said parties may be subject, except that neither Correct Rx nor any of its agents, representatives or employees will be liable under this section for damages arising out of injury or damage to any person or property directly caused or resulting from the sole negligence of _____ or any of its officers, agents or employees.

12. Amendment to Agreement

No amendment to this Agreement shall be valid or enforceable unless in writing and executed by duly authorized representatives of both parties.

13. Third Party Beneficiaries

The parties agree that they have not entered into this Agreement for the benefit of any third person or persons and it is their express intention that the Agreement is for their respective benefits only and not for the benefit of others who might otherwise be deemed to constitute third party beneficiaries hereof.

14. Severability

The terms and conditions of this Agreement shall be deemed to be severable. Consequently, if any cause, term or condition hereof shall be held to be illegal or void, such determination shall not affect the validity or legality of the remaining terms and conditions hereunder.

15. Captions

The captions appearing in the paragraphs in this Agreement are for convenience only. They are not a part of this Agreement and do not, in any way, limit or amplify the terms and provisions hereunder. In addition, in the event any provision of this Agreement is deemed ambiguous, such provision shall not be construed against Correct Rx for the reason that Correct Rx was primarily

responsible for the drafting of this Agreement, since both parties hereby assume equal responsibility for the drafting of this Agreement.

16. Counterparts

This Agreement may be executed simultaneously in two or more counterparts each of which shall be deemed an original, but all of which shall constitute one and the same instrument.

17. Governed Law

The laws of the State of Maryland govern this Agreement and any disputes that arise here from shall be determined exclusively within the Maryland courts. Each party consents to the Maryland courts' jurisdiction over it and designates, if necessary, the Maryland Secretary of State to accept service on its behalf.

IN WITNESS WHEREOF, the parties have executed the Agreement effective as of that commencement date documented in paragraph 2 supra.

Sample County	**Correct Rx Pharmacy Services, Inc.**
By:_____	By:_____ Ellen H. Yankellow, PharmD President & CEO
Date: _____	Date: _____

We'll Prove
IT TO YOU.
See for yourself.
CorrectRx
PHARMACY SERVICES
Correct Rx Pharmacy Services, Inc. | 1352 Charwood Road, Suite C | Hanover, MD 21076
p: 800.636.0501 | w: www.correctrxpharmacy.com | e: info@correctrxpharmacy.com

TEXAS STATE BOARD OF PHARMACY

This certifies that the pharmacy named below is hereby licensed to operate as a Class **ES** pharmacy.

License No. **22682** Expiration Date: **6/30/2019**

Balances: **0**

CORRECT RX PHARMACY SERVICES
1352 CHARWOOD RD STE C
HANOVER MD 21076

Gay Dodson, R.Ph.
Executive Director/Secretary

MUST BE DISPLAYED IN FULL PUBLIC VIEW

TEXAS DEPARTMENT OF STATE HEALTH SERVICES
REGULATORY LICENSING UNIT

CORRECT RX PHARMACY SERVICES INC

1352 CHARWOOD RD STE C
HANOVER, MD 21076

Pursuant to Health and Safety Code Chapter 431 (Food, Drug, Device, and Cosmetic Act) and Title 25 of the Texas Administrative Code, and in reliance on statements and representations made by licensee, the licensee shall be subject to all applicable rules, regulations and orders of the Texas Department of State Health Services now or hereafter in effect. The above licensee is authorized to engage in the following activities:

OUT OF STATE WHOLESALE DISTRIBUTOR OF PRESCRIPTION DRUGS

License # 1001156
Expires: January 31, 2019

NON-TRANSFERABLE

Commissioner

508912

Supplier: **Correct Rx Pharmacy Services, Inc.**

Williamson County – Request for Proposal (RFP)

SECTION 1 - DEFINITIONS

Addendum/Addenda – means any written or graphic instruments issued by the County prior to the consideration of Proposals which modify or interpret the Proposal Documents by additions, deletions, clarifications, or corrections.

Agreement/Ensuing Agreement(s) – means the Successful Respondent may be required by the County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and the Respondent's Proposal. Such Ensuing Agreement(s) shall contain the Proposal specifications, terms and conditions that are derived from the RFP.

Contract – means this RFP and the Proposal of the Successful Respondent shall become a Contract between the Successful Respondent and the County once the Successful Respondent's Proposal is properly accepted by the Williamson County Commissioners Court (sometimes referred to herein as the Commissioner's Court").

Commissioner's Court – means the Williamson County Commissioners Court.

County – means Williamson County, a political subdivision of the State of Texas.

Executive Summary – means the document submitted by Respondent that represents a concise summary of the contents of the Proposal. It does not include any information concerning costs.

Proposal Documents – means the Legal Notice, RFP including attachments, and any Addenda issued by the County prior to the consideration of any Proposals.

Proposal – means the complete, properly signed document, and ALL required forms and documentation listed in the proposal package which have been submitted in accordance with this RFP package. A Proposal submitted in accordance with this RFP is irrevocable during the specified time period for evaluation and acceptance of Proposals, unless a waiver is obtained from the Williamson County Purchasing Agent.

Respondent – means a person or entity who submits a Proposal in response to this RFP.

Request for Proposals (RFP) – means this document, together with the attachments thereto and any future Addenda issued by the County.

Successful Respondent– means the responsible Respondent who, in the County's sole opinion, submits the Proposal which is in the best interest of the County, taking into account factors identified

herein, and to whom the County intends to award the Contract.

SECTION 2 - RESPONSE FORMAT AND SUBMISSION

2.1 INTRODUCTION

Each Proposal submitted in response to this RFP should clearly reference the numbered sections of this RFP that require a response. Failure to arrange the Proposal as requested may result in the disqualification of the Proposal.

Though there is not a page limit for Proposals, to save natural resources including paper, and to allow the County staff to efficiently evaluate all submitted Proposals, the County requests that Proposals be orderly, concise, but comprehensive in providing the requested information. Conciseness and clarity of content are emphasized and encouraged. If mailed or delivered in person, please limit additional, non requested information.

Please provide your Proposal response using:

A. 8 ½" x 11" pages, inclusive of any cover letter or supporting materials.

B. The least amount of plastic/laminate or other non-recyclable binding materials.

C. Single-sided printing.

Vague and general Proposals will be considered non-responsive, and may, at the County's sole discretion, result in disqualification. Proposals must be legible and complete. Failure to provide the required information may result in the disqualification of the Proposal. All pages of the Proposal should be numbered and the Proposal should contain an organized, paginated table of contents corresponding to the sections and pages of the Proposal.

2.2 ORGANIZATION OF PROPOSAL CONTENTS AND TABLE OF CONTENTS

Each Proposal should be submitted with a table of contents that clearly identifies and denotes the location of all enclosures of the Proposal. The table of contents should follow the RFP's structure as much as is practical.

Each Proposal should be organized in the manner described below:

A. Transmittal Letter. Please see Section 2.3, Transmittal Letter, for more information.

B. Table of Contents.

C. Executive Summary. Please see Section 2.4, Executive Summary.

D. Proposal Response to Criteria. (Please see the sections in this RFP package that list the Specifications & Cost Proposal, Experience and Qualifications, References, and Implementation Strategy to respond to our criteria in a clear and concise manner)

E. Price Sheet.

F. References: Identification of three (3) references within the last four (4) years, for which the Respondent is providing, or has provided, the goods and/or services (public sector) of the type requested in this RFP. Include the name, position/title, and telephone number of a contact person at each entity.

G. Conflict of Interest Questionnaire.

H. Proposal Affidavit (Signature Page).

I. Attach your entities sample Contract, if applicable, for the County's review and consideration. This should include any additional terms or conditions. The County is not required to use the sample Contract submitted.

2.3 TRANSMITTAL LETTER

The Respondent should submit a Transmittal Letter that provides the following information:

A. Name and address of individual or business entity submitting the Proposal.

B. Respondent's type of business entity (i.e., Corporation, General Partnership, Limited Partnership, LLC, etc.). See Section 3.5, Signature of Respondent, for more information.

C. Place of incorporation or organization, if applicable.

D. Name and location of major offices and other facilities that relate to the Respondent performance under the terms of this RFP.

E. Name, physical address, email address, business and fax number of the Respondent's principal contact person regarding all contractual matters relating to this RFP.

F. The Respondent's Federal Employer Identification Number.

G. A commitment by the Respondent to provide the services required by the County;

H. A statement that the Proposal is valid for the time specified on page three (3), under the section named *Prices Good for*, of this Proposal packet. Any Proposal containing a term of less than the required amount, may at the County's sole discretion, be rejected as non-responsive.

I. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.40, Air Quality for more information.

The Transmittal Letter should be signed by a person legally authorized to bind the Respondent to its representations in the Transmittal Letter and the Proposal. In the case of a joint Proposal, each party must sign the Transmittal Letter.

2.4 EXECUTIVE SUMMARY

The Respondent should provide an Executive Summary of its Proposal that asserts that the Respondent is providing in its response all of the requirements of this RFP. The Executive Summary should not include any information concerning the cost of the Proposal, but instead must represent a full and concise summary of the contents of the Proposal. It is recommended the Executive Summary include the following information:

A. Identify any goods and/or services that are provided beyond those specifically requested. If the Respondent is providing services and/or goods that do not meet the specific requirements of this RFP, but in the opinion of the Respondent are equivalent or superior to those specifically requested, any such differences should be noted in the Executive Summary. However, the Respondent must realize that failure to provide the goods and/or services specifically required, at the County's sole discretion, may result in disqualification of the Proposal.

B. Indicate why the Respondent believes that it is the most qualified Respondent to provide the services described in this RFP. The Successful Respondent must demonstrate extensive experience and understanding of the intent of this project. The Respondent should describe in detail the current and historical experience the Respondent and its subcontractors have that would be relevant to completing the project. References must contain the name of key personnel and telephone numbers for each contact, as described in Section 3.14, References.

C. Briefly state why the Respondent believes its proposed goods and/or services best meet the County's needs and RFP requirements, and the Respondent also should concisely describe any additional features, aspects, or advantages of its goods and/or services in any relevant area not covered elsewhere in its Proposal.

2.5 CONFLICT OF INTEREST

No public official shall have interest in a contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code, Title 5, Subtitle C, Chapter 171, as amended.

As of January 1, 2006, all Respondents are responsible for complying with Local Government Code, Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County's website at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en-US/Default.aspx

Each Respondent must disclose any existing or potential conflict of interest relative to the performance of the requirements of this RFP. **Examples of potential conflicts of interest may include an existing business or personal relationship between the Respondent, its principal, or any affiliate or subcontractor with the County or any other entity or person involved in any way with the project that is subject to this RFP**. Similarly, any personal or business relationship between the Respondent, the principals, or any affiliate or subcontractor with any employee, or official of the County or its suppliers must be disclosed. Any such relationship that might be perceived or represented as a conflict must be disclosed. Failure to disclose any such relationship or reveal personal relationships with the County employees or officials may be cause for termination.

The County will decide if an actual or perceived conflict should result in Proposal disqualification.

By submitting a Proposal in response to this RFP, all Respondents affirm they have not given, nor intend to give, at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a the County public servant or any employee, official or representative of same, in connection with this procurement.

Each Respondent must provide a Conflict of Interest Statement with their Proposal Package. Package may be deemed incomplete without this form.

2.6 CERTIFICATE OF INTERESTED PARTIES – FORM 1295

As of January 1, 2016, all Respondents are responsible for complying with the Texas Government Code, Section 2252.908. The law states that the County may not enter into certain contracts with a Respondent unless the Respondent submits a disclosure of interested parties to the County at the time the Respondent submits the signed contract. The law applies only to a contract of the County on or after January 1, 2016 that either:

A. Requires an action or vote by the Commissioners Court before the contract may be signed (all contracts that fall under the jurisdiction of the Commissioners Court approval, such as contracts resulting from an Initiation for Bid (IFB), RFP, Request for Qualifications (RFQ), etc., excluding,

but not limited to, certain Juvenile Service contracts, contracts funded with Sheriff's seized fun monies, etc.); or

B. Has a value of at least $1,000,000.

By January 1, 2016, the Texas Ethics Commission will make available on its website, a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

A Respondent must:

A. Use the online application to process the required information on Form 1295.

B. Print a copy of the form which will contain a unique certification number.

C. An authorized agent of the Respondent must sign the printed copy of the form.

D. Have the form notarized.

E. File the completed Form 1295 and certification of filing (scanning and emailing form is sufficient) with Williamson County Purchasing Agent at the time the signed Contract is submitted for approval.

After the Commissioners Court award of the contract, the County shall notify the Texas Ethics Commission, using the Texas Ethics Commission's filing application, of the receipt of the filed Form 1295 and certification of filing not later than the 30th day after the date the contract binds all parties to the contract. The Texas Ethics Commission will post the completed Form 1295 to its website within seven business days after receiving notice from the County.

2.7 PROPOSAL SUBMITTAL DEADLINE

The Proposal is due no later than the submittal date and time set forth in the Public Announcement and General Information listed in this RFP package. Contents of each Proposal shall be submitted in accordance with this RFP.

2.8 ETHICS

The Respondent shall not accept or offer gifts or anything of value, nor enter into any business arrangement with any employee, official or agent of the County.

2.9 DELIVERY OF PROPOSALS

The County uses BidSync to distribute and receive bids and Proposals. It is preferred that Proposals be submitted electronically through BidSync; however, Respondents can submit a hard copy.

Refer to www.bidsync.com for further information on how to submit electronically.

If mailed or delivered in person, Proposal and Proposal Addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed in this RFP package, to:

Williamson County Purchasing Department

Attn: **Proposal Name and Number**
901 South Austin Avenue
Georgetown, Texas 78626

Also, all Respondents should list their Name and Address, and the Date of the Proposal opening on the outside of the box or envelope and note "Sealed Proposal Enclosed." Williamson County will not accept any Proposals after the submittal deadline, and shall return such Proposals unopened to the Respondent. The County will not accept any responsibility for Proposals being delivered by third party carriers.

Proposals will be opened publicly; however, in a manner to avoid public disclosure of contents, only names of Respondents will be read aloud: no pricing will be announced at the opening.

SECTION 3 - INSTRUCTIONS AND GENERAL REQUIREMENTS

3.1 INSTRUCTIONS

Read this document carefully, and follow all instructions and requirements. All Respondents are responsible for fulfilling all requirements and specifications. Be sure to have a clear understanding of this RFP.

General requirements apply to all advertised RFPs; however, these may be superseded, in whole or in part, by the proposal specifications, Addenda and modifications issued as a part of this RFP. Be sure your Proposal package is complete.

3.2 AMBIGUITY, CONFLICT, OR OTHER ERRORS IN THIS RFP

If a Respondent discovers any ambiguity, conflict, discrepancy, omission or other error in this RFP, the Respondent shall immediately notify the County Purchasing Department of such error in writing and request modification or clarification of the document.

Modifications will be made by issuing Addenda. If the Respondent fails to notify the County prior to the date and time fixed for submission of Proposals of an error or ambiguity in the RFP known to the Respondent, or an error or ambiguity that reasonably should have been known to the Respondent, then the Respondent shall be deemed to have waived the error or ambiguity or its later resolution.

The County may also modify the RFP, no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals, by issuance of an Addendum. All Addenda will be numbered consecutively, beginning with one (1).

3.3 NOTIFICATION OF MOST CURRENT ADDRESS

All Respondents in receipt of this RFP shall notify the Williamson County Purchasing Department of any address changes, contact person changes, and/or telephone number changes no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals.

3.4 SIGNATURE OF RESPONDENT

A Transmittal Letter, which shall be considered an integral part of the Proposal as stated in Section 2.3, Transmittal Letter, shall be signed by an individual who is authorized to bind the Respondent contractually.

A. If the Respondent is a Corporation or Limited Liability Company, the legal name of the Corporation or Limited Liability Company shall be provided together with the signature of the officer or officers authorized to sign on behalf of such entity.

B. If the Respondent is a General Partnership, the true name of the firm shall be provided with the signature of each partner authorized to sign.

C. If the Respondent is a Limited Partnership, the name of the Limited Partner's General Partner shall be provided with the signature of the officer authorized to sign on behalf of the General Partner.

D. If the Respondent is a Sole Proprietor(s) (individual), each Sole Proprietor(s) shall sign.

E. If signature is by an agent, other than the Sole Proprietor(s) or an officer of a Corporation, Limited

Liability Company, General Partner or a member of a General Partnership, a power of attorney equivalent document must be submitted to the Williamson County Purchasing Department.

3.5 ASSUMED BUSINESS NAME

If the Respondent operates business under an Assumed Business Name, the Respondent must have file with the Williamson County Clerk a current Assumed Name Certificate and provide a file marked copy of same prior to contract award.

3.6 ECONOMY OF PRESENTATION

Proposals should not contain promotional or display materials, except as they may directly answer in whole or in part questions contained in the RFP. Such exhibits shall be clearly marked with the applicable reference number of the question in the RFP. Proposals must address the technical requirements as specified in the RFP. All questions posed by the RFP must be answered concisely and clearly. Proposals that do not address each criterion may be, at the sole discretion of the County, rejected and not considered.

3.7 PROPOSAL OBLIGATION

The contents of the RFP, Proposal, and any clarification thereof submitted by the Successful Respondent shall become part of the contractual obligation and incorporated by reference into the Contract and any Ensuing Agreement(s).

3.8 COMPLIANCE WITH RFP SPECIFICATIONS

It is intended that this RFP describe the requirements and the Proposal format in sufficient detail to secure comparable Proposal. Failure to comply with all provisions of the RFP may, at the sole discretion of the County, result in disqualification.

3.9 EVALUATION

The County reserves the right to use all pertinent information (also learned from sources other than disclosed in the RFP process) that might affect the County's judgment as to the appropriateness of award to the best evaluated Respondent. This information may be appended to the Proposal evaluation process results. Information on a Respondent from reliable sources, and not within the Respondent Proposal, may also be noted and made part of the evaluation file. The County shall have sole discretion for determining the reliability of the source. The County reserves the right to conduct written and/or oral discussions/interviews after the Proposal opening. The purpose of such discussions/interviews is to provide clarification and/or additional information to make an award that is in the best interest of the County.

3.10 WITHDRAWAL OF PROPOSAL

The Respondent may withdraw its Proposal by submitting a written request with the company letterhead and the signature of an authorized individual, as described in Section 3.4, Signature of Respondent, to the Williamson County Purchasing Department any time prior to the submission deadline.

The Respondent may submit a new Proposal prior to the deadline. Alterations of the Proposal in any manner will not be considered if submitted after the deadline. Withdrawal of a Proposal after the deadline will be subject to written approval of the Williamson County Purchasing Agent.

3.11 RESPONSIBILITY

It is expected that a Respondent will be able to affirmatively demonstrate responsibility. A prospective Respondent should be able to meet the following requirements:

A. Have adequate financial resources, or the ability to obtain such resources as required;
B. Be able to comply with the required or proposed delivery schedule;
C. Have a satisfactory record of performance that can be determined thru references provided; and
D. Be otherwise qualified and eligible to receive an award.

The County may request representation and other information sufficient to determine the Respondent ability to meet these minimum standards listed above.

3.12 PURCHASE ORDERS

If required by the Williamson County Purchasing Department, a purchase order(s) may be generated to the Successful Respondent for goods and/or services. If a purchase order is issued, the purchase order number must appear on all itemized invoices and/or requests for payment.

3.13 SILENCE OF SPECIFICATIONS

The apparent silence of any RFP specifications as to any detail or to the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

3.14 REFERENCES

Respondents shall furnish a list of contracts where similar responsibilities and goods and/or services have been required and/or performed for the past five (5) years, to include names, titles, phone numbers and email addresses of reference contacts, contract numbers and dates of performance.

Also, Respondents shall include a list of any contracts that have been cancelled or terminated within the last five (5) years, along with an explanation of the cancellation and the names, email address and phone number of a reference person with that institution.

The County may contact some or all of the references in order to determine the Respondent performance record on work similar to that described in this RFP. The County reserves the right to contact references other than those provided in the response and to use the information gained from them in the evaluation process.

References should be provided in accordance with this RFP. Proposal may not be deemed complete without the inclusion of requested references.

SECTION 4 - TERMS AND CONDITIONS

4.1 VENUE AND GOVERNING LAW

The Respondent hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this RFP, the Contract and any Ensuing Agreement(s), shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this RFP, the Contract and any Ensuing Agreement(s) is governed by the laws of the United States, this RFP, the Contract and any Ensuing Agreement(s) shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

4.2 INCORPORATION BY REFERENCE AND PRECEDENCE

A. The Contract shall be derived from the RFP and its Addenda (if applicable), and the Respondent Proposal. In the event of a dispute under the Contract, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The RFP and its Addenda (if applicable); and

   2. The Respondent's Proposal.

B. In the event the County requires that an Ensuing Agreement be executed following award and a dispute arises between the terms and conditions of the Ensuing Agreement, the RFP and its Addenda (if applicable), and the Respondent's Proposal, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The terms and conditions of the Ensuing Agreement;

   2. The RFP and its Addenda; and

   3. The Respondent's Proposal.

4.3 OWNERSHIP OF PROPOSAL

Each Proposal shall become the property of the County upon submittal and will not be returned to Respondents unless received after the submittal deadline.

4.4 DISQUALIFICATION OF RESPONDENT

Upon signing and submittal of the Proposal, a Respondent offering to sell supplies, materials, services, or equipment to the County, certifies that the Respondent has not violated the antitrust laws of the State of Texas codified in Business & Commerce Code, Section 15.01, or the Federal Antitrust Laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged such line of business. Any or all Proposals may be rejected if the County believes that collusion exists among the Respondents.

4.5 FUNDING

The County intends to budget and make sufficient funds available and authorize funds for expenditure to finance the costs of the Contract. All Respondents understand and agree that the County's payment of

amounts under the Contract shall be contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to make payments under this Contract.

4.6 ASSIGNMENT, SUCCESSORS AND ASSIGNS

The Successful Respondent may not assign, sell, or otherwise transfer the Contract or any other rights or interests obtained under the Contract without written permission of the Williamson County the Commissioners Court. The Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the contracting parties hereto and their respective successors and permitted assigns.

4.7 IMPLIED REQUIREMENTS

Products or services not specifically described or required in the RFP, but are necessary to provide the functional capabilities described by the Respondent, shall be implied and deemed to be included in the Proposal.

4.8 TERMINATION

A. **Termination for Cause:** The County reserves the right to terminate the Contract and/or any Ensuing Agreement(s) for default if the Successful Respondent breaches any of the Proposal specifications, terms and conditions, including warranties of the Respondent, if any, or if the Successful Respondent becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies the County may have at law or equity or as may otherwise be provided hereunder. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all other requirements to the County's satisfaction, and/or to meet all other obligations and requirements.

B. **Termination for Convenience:** The County may terminate the Contract and/or any Ensuing Agreement(s) for convenience and without cause or further liability, upon no less than thirty (30) calendar days written notice to the Successful Respondent. The County reserves the right to extend this period if it is in the best interest of the County. In the event the County exercises its right to terminate without cause, it is understood and agreed that only the amounts due to the Successful Respondent for goods, commodities and/or services provided and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for the County's termination for convenience.

4.9 NON-PERFORMANCE

It is the objective of the County to obtain complete and satisfactory performance of the requirements set forth herein. In addition to any other remedies available at law, in equity or that may be set out herein, failure to perform may result in a deduction of payment equal to the amount of the goods and/or services that were not provided and/or performed to the County's satisfaction.

In the event of such non-performance, the County shall have the right, but shall not be obligated, to complete the services itself or by others and/or purchase the goods from other sources. If the County elects to acquire the goods or perform the services itself or by others, pursuant to the foregoing, the Successful Respondent shall reimburse the County, within ten (10) calendar days of demand, for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting the nonperformance which the Successful Respondent fails to meet pursuant to the requirements set out herein. In the event the Successful Respondent refuses to reimburse the County as set out in this provision, the County shall have the right to deduct such reimbursement amounts from any amounts that may be then owing or that may become owing in the future to the Successful Respondent.

4.10 PROPRIETARY INFORMATION AND THE TEXAS PUBLIC INFORMATION ACT

All material submitted to the County shall become public property and subject to the Texas Public Information Act upon receipt. If a Respondent does not desire proprietary information in the Proposal to be disclosed, each page must be clearly identified and marked proprietary at time of submittal or, more preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary. Failure to clearly identify and mark information as being proprietary as set forth under this provision will result in all unmarked information being deemed non-proprietary and available to the public. For all information that has not been clearly identified and marked as proprietary by the Respondent, the County may choose to place such information on the County's website and/or a similar public database without obtaining any type of prior consent from the Respondent.

The County will, to the extent allowed by law, endeavor to protect from public disclosure the information that has been identified and marked as proprietary. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General.

To the extent, if any, that any provision in this RFP or in the Respondent's Proposal is in conflict with Texas Government Code, Chapter 552, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood, and agreed, that the County, and its officers and employees, may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to the County as to whether or not the same are available to the public. It is further understood that that the County, and its officers and employees, shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that the County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to the County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

4.11 RIGHT TO AUDIT

The Successful Respondent agrees that the County or its duly authorized representatives shall, until the expiration of three (3) years after termination or expiration of the services to be performed, have access to and the right to examine and photocopy any and all books, documents, papers and records of the Successful Respondent, which are directly pertinent to the services to be performed or goods to delivered for the purposes of making audits, examinations, excerpts and transcriptions. The Successful Respondent agrees that the County shall have access during normal working hours to all necessary facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give the Successful Respondent reasonable advance notice of intended audits.

4.12 TESTING AND INSPECTIONS

The County reserves the right to inspect and test equipment, supplies, materials and goods for quality and compliance with this RFP, and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the County can deem the Respondent to be in breach and terminate the Contract and/or any Ensuing Agreement(s).

4.13 PROPOSAL PREPARATION COSTS

The cost of developing Proposals is the sole responsibility of the Respondents and shall not be charged to the County. There is no expressed or implied obligation for the County to reimburse the Respondents for any expense incurred in preparing a Proposal in response to this RFP and the County will not reimburse the Respondents for such expenses.

4.14 INDEMNIFICATION

The Successful Respondent shall indemnify, defend and save harmless, the County, its officials, employees, agents and agent's employees from, and against, all claims, liability, and expenses including reasonable attorneys' fees, arising from activities of the Respondent, its agents, servants or employees, performed hereunder that result from the negligent act, error, or omission of the Respondent or any of the Respondent's agents, servants or employees, as well as all claims of loss or damage to the Respondent's and the County's property, equipment, and/or supplies.

Furthermore, the County, its officials, employees, agents and agents' employees shall not be liable for damages to the Successful Respondent arising from any act of any third party, including, but not limited to, theft. The Successful Respondent further agrees to indemnify, defend and save harmless, the County from its officials, employee, agents and agents' employees against all claims of whatever nature arising from any accident, injury, or damage whatsoever, caused to any person, or the property of any person, occurring in relation to the Successful Respondent's performance of any services requested hereunder during the term of the Contract and/or any Ensuing Agreement(s).

The Successful Respondent shall timely report all claims, demands, suits, actions, proceedings, liens or judgements to the County and shall, upon the receipt of any claim, demand, suit, action, proceeding, lien or judgement, not later than the fifteenth (15th) day of each month; provide the County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of the County required by the Successful Respondent in the defense of each matter. The Successful Respondent's duty to defend, indemnify and hold the County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of the Contract and/or any Ensuing Agreement(s), unless otherwise agreed by the County in writing. The provisions of this section shall survive the termination of the Contract and shall remain in full force and effect with respect to all such matters no matter when they arise.

In the event of any dispute between the parties, as to whether a claim, demand, suit, action, proceeding, lien or judgement, that appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of the County, the Respondent shall nevertheless fully defend such claim, demand, suit or action, proceeding, lien or judgement, until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of the Respondent are not an issue in the matter.

The Successful Respondent's indemnification shall cover, and the Successful Respondent agrees to, indemnify the County, in the event the County is found to have been negligent for having selected the Successful Respondent to perform the work described in this request. The provision by the Successful Respondent of insurance shall not limit the liability of the Successful Respondent under the Contract and/or any Ensuing Agreement(s).

4.15 WAIVER OF SUBROGATION

The Successful Respondent and the Successful Respondent's insurance carrier waive any and all rights whatsoever with regard to subrogation against the County as an indirect party to any suit arising out of personal or property damages resulting from the Respondent's performance under this Contract and any Ensuing Agreement(s).

4.16 RELATIONSHIP OF THE PARTIES

The Successful Respondent shall be an independent contractor and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions herein which may appear to give the County the right to direct the Successful Respondent as to details of doing work herein covered, or to exercise a measure of control over the work, shall be deemed to mean that the Successful Respondent shall follow the desires of the County in the results of the work only. The County shall not retain or have the right to control the Successful Respondent's means, methods or

details pertaining to the Successful Respondent's performance of the work. The County and the Successful Respondent hereby agree and declare that the Successful Respondent is an independent contractor and as such meets the qualifications of an "Independent Contractor" under Texas Workers Compensation Act, Texas Labor Code, Section 406.141, that the Successful Respondent is not an employee of the County, and that the Successful Respondent and its employees, agents and subcontractors shall not be entitled to workers compensation coverage or any other type of insurance coverage held by the County.

4.17 SOLE PROVIDER

The Successful Respondent agrees and acknowledges that it shall not be considered a sole provider of the goods and/or services described herein and that the County may contract with other providers of such goods and/or services if the County deems, at its sole discretion, that multiple providers of the same goods and/or services will serve the best interest of the County.

4.18 FORCE MAJEURE

If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

4.19 SEVERABILITY

If any provision of this RFP, the Contract or any Ensuing Agreement(s) shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision thereof, but rather the entire RFP, Contract or any Ensuing Agreement (s) will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this RFP, the Contract or any Ensuing Agreement(s) is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this RFP, the Contract or any Ensuing Agreement(s) and be deemed to be validated and enforceable.

4.20 EQUAL OPPORTUNITY

Neither party shall discriminate against any employee or applicant for employment because of race, color, sex, religion or national origin.

4.21 NOTICE

Any notice to be given shall be in writing and may be distributed by personal delivery, or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

The County: Williamson County Purchasing Department
Attn: Purchasing Agent
901 South Austin Avenue
Georgetown, Texas 78626

The Respondent: Address set out in Respondent's Transmittal Letter

Notices given in accordance with this provision shall be effective upon (1) receipt by the party to which notice is given, or (2) on the third (3rd) calendar day following mailing, whichever occurs first.

4.22 SALES AND USE TAX EXEMPTION

The County is a body, corporate and politic, under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code, Section 151.309, as amended, and the services and/or goods subject hereof are being secured for use by the County.

4.23 COMPLIANCE WITH LAWS

The County and the Successful Respondent shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any Ensuing Agreement(s), including, without limitation, Workers' Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the Successful Respondent shall furnish the County with certification of compliance with said laws, statues, ordinances, rules, regulations, orders, and decrees above specified.

4.24 INCORPORATION OF EXHIBITS, APPENDICES AND ATTACHMENTS

All of the Exhibits, Appendices and Attachments referred to herein are incorporated by reference as if set forth verbatim herein. Any conflicting terms in the Contract documents will be resolved at the sole discretion of the Commissioners Court.

4.25 NO WAIVER OF IMMUNITIES

Nothing herein shall be deemed to waive, modify or amend any legal defense available at law or in equity to the County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. The County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

4.26 NO WAIVER

The failure or delay of any party to enforce at any time or any period of time any of the provisions of this RFP, the Contract or any Ensuing Agreement(s) shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

4.27 CURRENT REVENUES

The obligations of the parties under the Contract and any Ensuing Agreement(s) do not constitute a general obligation or indebtedness of the County for which the County is obligated to levy, pledge, or collect any of taxation. It is understood and agreed that the County shall have the right to terminate the Contract and any Ensuing Agreement(s) at the end of any the County fiscal year if the governing body of the County does not appropriate sufficient funds as determined by the County's budget for the fiscal year in question. The County may effect such termination by giving written notice of termination to t Successful Respondent at the end of its then-current fiscal year.

4.28 BINDING EFFECT

This Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the parties and their respective permitted assigns and successors.

4.29 ASSIGNMENT

The Successful Respondent's interest and duties hereunder may not be assigned or delegated to a third party without the express written consent of the County.

4.30 SAFETY

The Successful Respondent is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with any services to be provided hereunder. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

4.31 GENERAL OBLIGATIONS AND RELIANCE

The Successful Respondent shall perform all services and/or provide all goods, as well as those reasonably inferable and necessary for completion and provision of services and/or goods required hereunder. The Successful Respondent shall keep the County informed of the progress and quality the services. The Successful Respondent agrees and acknowledges that the County is relying on the Successful Respondent's represented expertise and ability to provide the goods and/or services described herein. The Successful Respondent agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of the County in accordance with the County's requirements and procedures. The Successful Respondent's duties, as set forth herein, shall at no time be in any way diminished by reason of any approval by the County, nor shall the Successful Respondent be released from any liability reason of such approval by the County, it being understood that the County at all times is ultimately relying upon the Successful Respondent's skill and knowledge in performing the services and providing any goods required hereunder.

4.32 CONTRACTUAL DEVELOPMENT

The Commissioners Court may award the Contract on the basis of the initial Proposals received, without any further or additional discussions. Therefore, each initial Proposal should contain the Respondent best terms and offer. The contents of the RFP and the selected Proposal will become an integral part of the Contract, but may be modified, at Williamson County's sole discretion, by provisions of an Ensuing Agreement. Therefore, the Respondent must agree to inclusion in an Ensuing Agreement of t Proposal specifications, terms and conditions of this RFP. Williamson County may, at its discretion, opt to conduct further discussions with responsible offerors and request the highest ranked firm's Best and Final Offer (BAFO).

4.33 ENTIRE AGREEMENT

The Contract and any Ensuing Agreement(s) shall supersede all prior Agreements, written or oral between the Successful Respondent and the County and shall constitute the entire Agreement and understanding between the parties with respect to the services and/or goods to be provided. Each of the provisions herein shall be binding upon the parties and may not be waived, modified, amended or altered, except by writing signed by the Successful Respondent and the County.

4.34 SURVIVABILITY

All applicable agreements that were entered into between the Successful Respondent and the County, under the terms and conditions of the Contract and/or any Ensuing Agreement(s), shall survive the expiration or termination thereof for ninety (90) days unless a new contract has been awarded.

The County may exercise, by written notice to the Successful Respondent no later than ten (10) calendar days of the Contract expiration, this clause for emergency cases only.

4.35 PAYMENT

The County's payment for goods and services shall be governed by the Texas Government Code, Chapter 2251. An invoice shall be deemed overdue the thirty-first (31st) day after the later of the following:

A. The date the County receives the goods under the Contract;
B. The date the performance of the service under the Contract is completed; or
C. The date the Williamson County Auditor receives an invoice for the goods or services.

Interest charges for any overdue payments shall be paid by the County in accordance with Texas Government Code, Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of the County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one (1) percent and the prime rate published in the Wall Street Journal on the first (1st) day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by the Successful Respondent, the County shall notify the Successful Respondent of the error not later than the twenty-first (21st) day after the date the County receives the invoice. If the error is resolved in favor of the Successful Respondent, the Successful Respondent shall be entitled to receive interest on the unpaid balance of the invoice submitted by the Successful Respondent beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, the Successful Respondent shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by the Texas Government Code, Chapter 2251, if the corrected invoice is not paid by the appropriate date.

As a minimum, invoices shall include:

A. Name, address, and telephone number of the Successful Respondent and similar information in the event the payment is to be made to a different address.

B. The County Contract, Purchase Order.

C. Identification of items or service as outlined in the Contract.

D. Quantity or quantities, applicable unit prices, total prices and total amount.

E. Any additional payment information which may be called for by the Contract.

Payment inquiries should be directed to the following address:

Williamson County Auditor's Office, Accounts Payable Department
Email: accountspayable@wilco.org
Phone: 512-943-1500

4.36 CONTRACTUAL FORMATION AND ENSUING AGREEMENT

The RFP and the Respondent's Proposal, when properly accepted by the Commissioners Court, shall constitute a Contract equally binding between the Successful Respondent and the County. The Successful Respondent may be required by Williamson County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and Respondent's Proposal.

4.37 LEGAL LIABILITY INFORMATION

The Successful Respondent shall disclose all legal liability information by listing any pending litigation anticipated litigation that your firm is involved in including, but not limited to, potential or actual legal matters with private parties and any local, state, federal or international governmental entities. The County reserves the right to consider legal liability information in the recommendation of any proposed contract to the Commissioners Court.

4.38 CONFIDENTIALITY

Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

4.39 INCLEMENT WEATHER

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a Proposal submission deadline, the Proposal closing will automatically be postponed until the next business day the County is open. If inclement weather conditions or any other unforeseen event causes delays in carrier service operations, the County may issue an Addendum to all known Respondents interested in the project to extend the deadline. It will be the responsibility of the Respondent to notify the County of their interest in the project if these conditions are impacting their ability to turn in a submission within the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

4.40 AIR QUALITY

In determining the overall best Proposal, the County may, to the extent applicable, exercise the option granted to local governments under the Texas Local Government Code, Section 271.907.

This option allows the County to evaluate Proposals and give preference to goods and/or services of Respondent that demonstrates that the Respondent meets or exceeds any and all state or federal environmental standards, including voluntary standards, relating to air quality. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. All Respondents are expected to meet all mandated state and federal air quality standards.

4.41 COOPERATIVE PURCHASING PROGRAM

During the term of the Contract resulting from this RFP, the County would like to afford the same prices, terms and conditions to other political subdivisions or public entities. Another entity's participation in the Contract resulting from this RFP is subject to a properly authorized Purchasing Cooperative Inter-local Agreement (ILA) with the County. Any liability created by purchase orders issued against the Contract shall be the sole responsibility of the governmental agency placing the order.

4.42 CONFIDENTALITY

The Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

Supplier: **Correct Rx Pharmacy Services, Inc.**

Proposal References

List the last three (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this RFP package, were recently provided by Respondent.

Reference 1

Client Name: **The GEO Group, Inc.**

Location: **Coastal Bend Detention Center, 4909 FM 2826, Robstown, Texas 78380**

Contact Name: **George "Butch" Head**

Title: **Senior Warden**

Phone: **(361) 767-3400**

E-mail **bhead@geogroup.com**

Contract Date To:	Contract Date From:	Contract Value: $
5/2003	**Present**	**9,000,000**

Scope of Work:

On May 27th, 2003, Correct Rx began service to The GEO Group's entire United States account. This transition included 20 facilities serving over 21,000 inmates in 11 states. This is a very complex group of facilities from 200 bed juvenile units to 2,900 bed FBOP facilities. These sites mimic many of the same demographics and medical service requirements of the Williamson County Jail. Included are urban jail facilities with large intake centers, skilled infirmaries, dialysis units and special housing units. All of the medical units are nationally accredited either through ACA, NCCHC or JC.

The key to the success of the GEO project was our attention to detail and absolute knowledge of the correctional industry. Correct Rx has an experienced management team of owners and operators that is not new to pharmacy or to the industry. Our reputation for hard work and getting the job done right the first time has been consistently documented over the years time after time.

Reference 2

Client Name: **Galveston County Sheriff's Office 77551**

Location: **Galveston County Jail, 5700 Avenue H, Galveston, Texas**

Contact Name: **Kathy White**

Title: **Health Services Administrator**

Phone: **(409)-763-7578**

E-mail **kwhite@boonchapman.com**

Contract Date To:	Contract Date From:	Contract Value: $
10/2013	**Present**	**800,000**

Scope of Work:

Correct Rx's clinical pharmacy team has overseen and administered the non-formulary approval program in collaboration with the Galveston County Jail medical staff over the past four years. Over one year, Correct Rx decreased drug spending in non-formularies by 35%. Correct Rx also helped to significantly decrease HIV spending. After a thorough analysis of HIV spending, Correct Rx's clinical team provided cost-savings recommendations, which yielded a 28% reduction in HIV spending in one year (greater than $69,000).

In addition to partnering with Galveston County Jail to reduce healthcare spends, Correct Rx has been an instrumental partner in other capacities. Technology changes can be a massive undertaking for a facility. Correct Rx played a key role in helping this facility smoothly transition to their new EHR system. Additionally, a Correct Rx clinical pharmacist provided on-site assistance with a Texas State jail audit.

Reference 3

Client Name:	Location:
Northwestern Regional Adult Detention Center	**141 Fort Collier Road, Winchester, VA 22603**

Contact Name:	Title:
Captain Allen Barr	**Division Commander, Support Services**

Phone:	E-mail
(540) 535-3800 ext. 2208	**abarr@fcva.us**

Contract Date To:	Contract Date From:	Contract Value: $
8/2015	**Present**	**400,000**

Scope of Work:

Northwestern Regional Adult Detention Center is an 843 bed, regional jail in Winchester Virginia, servicing the counties of Clarke, Fauquier, Frederick and the City of Winchester.

Correct Rx Pharmacy Services was awarded the contract to provide comprehensive pharmacy services starting August 1, 2015. Correct Rx was chosen because of their responsiveness to the RFP and high level of integrity demonstrated. Northwestern Regional Adult Detention Center realized immediate cost savings, saving almost 40% during the first quarter of transition from their previous pharmacy vendor. Correct Rx's Clinical Pharmacists were proactive to help this regional jail achieve those savings by evaluating their current medication utilization and looking for ways to save money while maintaining the best clinical care and outcomes for the inmates. During a recent site visit, the Correct Rx team was complimented for their proactive approach to cost savings and consistent communication with both medical and command staff.

Correct Rx's Clinical Team was on-site on day one of the contract to provide transitional services. Jill Molofsky, one of the Correct Rx owners, was a major asset to the Northwestern Regional Adult Detention Center during the initial transition. Jill brings over 30 years of institutional pharmacy experience and helped to reorganize the medication room to optimize their efficacy.

Supplier: **Correct Rx Pharmacy Services, Inc.**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

This questionnaire is being filed in accordance with chapter 176 of the Local Government Code by a person doing business with the governmental entity.

By law this questionnaire must be filed with the records administrator of the local government not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1	**Name of person doing business with local governmental entity.** **Correct Rx Pharmacy Services, Inc. Ellen H. Yankellow, President & CEO**	
2	☐	**Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than September 1 of the year for which an activity described in Section 176.006(a), Local Government Code, is pending and not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)
3	**Describe each affiliation or business relationship with an employee or contractor of the local governmental entity who makes recommendations to a local government officer of the local governmental entity with respect to expenditure of money.** **NO AFFILIATION TO REPORT**	
4	**Describe each affiliation or business relationship with a person who is a local government officer and who appoints or employs a local government officer of the local governmental entity that is the subject of this questionnaire.** **NO AFFILIATION TO REPORT**	

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

Page 2

5	**Name of local government officer with whom filer has affiliation or business relationship.** **(Complete this section only if the answer to A, B, or C is YES.)** This section, item 5 including subparts A, B, C & D, must be completed for each officer with whom the filer has affiliation or other relationship. Attach additional pages to this Form CIQ as necessary. A. Is the local government officer named in this section receiving or likely to receive taxable income from the filer of the questionnaire? ☐ Yes ☐ No B. Is the filer of the questionnaire receiving or likely to receive taxable income from or at the direction of the local government officer named in this section AND the taxable income is not from the local governmental entity? ☐ Yes ☐ No C. Is the filer of this questionnaire affiliated with a corporation or other business entity that the local government officer serves as an officer or director, or holds an ownership of 10 percent or more? ☐ Yes ☐ No D. Describe each affiliation or business relationship. **NO AFFILIATION TO REPORT** **6. Describe any other affiliation or business relationship that might cause conflict of interest:** **NO AFFILIATION TO REPORT**
7	

	Signature of person doing business with the governmental entity	Date
	Signature not required if completing in BIDSYNC electronically.	

Supplier: **Correct Rx Pharmacy Services, Inc.**

PROPOSAL AFFIDAVIT

This form must be completed, signed, notarized and returned with Proposal package

The undersigned certifies that the RFP and the Respondent's Proposal have been carefully reviewed and are submitted as correct and final. Respondent further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Proposal, and upon the conditions contained in the RFP.

I hereby certify that the foregoing Proposal has not been prepared in collusion with any other Respondent or other person or persons engaged in the same line of business prior to the official opening of this Proposal. Further, I certify that the Respondent is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Proposal on, or to influence any person or persons to submit a Proposal or not to submit a Proposal thereon."

Name of Respondent:	**Correct Rx Pharmacy Services, Inc.**
Address of Respondent:	**1352 Charwood Road, Suite C, Hanover, Maryland 21076**
Email:	**eyankellow@correctrxpharmacy.com**
Telephone:	**(800) 636-0501 ext. 248**
Printed Name of Person Submitting Affidavit:	**Ellen H. Yankellow**
Signature of Person Submitting Affidavit:	

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Proposal will in no way have a negative impact on the County's evaluation of the Proposal.

☑	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Respondent agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, , (*Name of Signer*) am a duly authorized officer of/agent for (*Name of Respondent*) and have been duly authorized to execute the foregoing on behalf of the said (*Name of Respondent*).

SUBSCRIBED AND SWORN to before me by the above-named
on this the day of , 20.

Notary Public in and for

The State of

The County of **correctrx**

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

Supplier: **Correct Rx Pharmacy Services, Inc.**

PRICE SHEET

The undersigned Respondent, having become familiar with this RFP agrees to furnish the services and/or goods in accordance with this RFP at the following rate(s).

Please provide AWP Plus/Minus % Discount in blanks provided below and complete the 2 pages of Drug Brand/Generic price sheets with Per/Capsule-Pill pricing.

Proposer shall provide current Average Wholesale Price (AWP) minus a percentage (%) discount plus a dispensing fee (if applicable).

BRAND NAME MEDICATIONS

Minus Percent (%) Discount 21.00

Dispensing Fee (if applicable) 0.00

GENERIC MEDICATIONS

Minus Percent (%) Discount 93.00

Dispensing Fee (if applicable) 0.00

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
VALPROIC ACID 250MG CAP		**.0556**
HYDROXYZINE PAM 50MG CAP		**.0155**
BUPROPION 100MG TAB		**0.672**
LITHIUM CARB 300MG CAP		**.0112**
QUETIAPINE 100MG TAB		**.4800**
LACTULOSE 10GM/15 SOL		**.0038**
ANTI-DANDRUF 1%		**.0218**
HYDROCERIN LOT		**.0093**
GERI-MOX SUS		**.0050**
DIPHENHYDRAMINE 25MG CAP		**.0582**
SUDOGEST 60MG TAB		**.0579**
DIPHENHYDRAMINE 50MG CAP		**.0582**
AMOXICILLIN 500MG CAP		**.0266**
QUETIAPINE 300MG TAB		**1.1874**
NAPROXEN 500MG TAB		**.0835**
AMITRIPTYLINE 25MG TAB		**0.253**
TRAMADOL 50MG TAB		**.0039**
METFORMIN 500MG TAB		**.0040**
HYDROXYZ PAMOATE 25MG CAP		**.0144**
POLYETH GLYC 3350 NF POW		**.0003**
QUETIAPINE 200MG TAB		**1.1874**
LISINOPRIL 10MG TAB		**.0018**
VENLAFAXINE 75MG TAB		**.0302**
HCTZ 25MG TAB		**.0056**
BENZTROPINE 1MG TAB		**.0272**
METFORMIN 1000MG TAB		**.0066**
CITALOPRAM 20MG TAB		**.1694**
BENAZEPRIL 10MG TAB		**.0736**
TRAZODONE 100MG TAB		**.0425**
SMZ/TMP DS 800-160 TAB		**.0765**
POLYETH GLYC 3350 NF POW		**.0003**
BUPROPION 75MG TAB		**.0504**
TRAZODONE 50MG TAB		**.0290**
AMLODIPINE 10MG TAB		**.1663**

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
QUETIAPINE 300MG TAB		**1.1874**
ATRIPLA TAB	**80.5243**	
QUETIAPINE 100MG TAB		**.48**
TRUVADA TAB	**49.5367**	
LANTUS 100/ML INJ	**23.559**	
QUETIAPINE 200MG TAB		**.9056**
DULOXETINE 60MG CAP		**.0820**
REYATAZ 300MG CAP	**46.2390**	
OLANZAPINE 20MG TAB		**.6613**
COMPLERA TAB	**84.7123**	
OLANZAPINE 10MG TAB		**.3786**
QUETIAPINE 400MG TAB		**1.3954**
LATUDA 40MG TAB	**35.1803**	
BUPROPION 100MG TAB		**.0672**
DIVALPROEX 500MG ER TAB		**.2852**
ABILIFY 10MG TAB		**2.2400**
VALPROIC ACID 250MG CAP		**.0556**
ISENTRESS 400MG TAB	**21.9557**	
CYCLOPHOSPH 25MG TAB	**7.3960**	
INVEGA 9MG TAB		**2.2467**
OLANZAPINE 5MG TAB		**.1468**
LATUDA 20MG TAB	**35.1803**	
OLANZAPINE 15MG TAB		**.5306**
HUMULIN R U-100 U-100 INJ		**3.8000**
INVEGA 3MG TAB		**2.1370**
VENTOLIN HFA AER	**.2664**	
ABILIFY 5MG TAB		**2.2400**
NORVIR 100MG TAB	**8.1263**	
ADVAIR DISKUS 250/50 AER	**4.6157**	
PROMETHAZINE HCL 25MG SUPR		**1.2392**
EPINEPHRINE 0.3MG 2-PACK		**12.6000**
INVEGA 6MG TAB		**2.1370**
XIFAXAN 550MG TAB		**2.8012**
PERMETHRIN 5% CRM		**.1387**
PREZISTA 800MG TAB	**46.2880**	**correctrx**

Pharmacy Alternatives, LLC

Bid Contact **Doug Russell**
marion.akers@rescare.com
Ph 502-394-2100

Address **11401 Bluegrass Parkway**
LOUISVILLE, KY 40299

Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch.	Docs
1708-185--01-01	Please attach all documents to this line	**Supplier Product Code:**	**First Offer -**	1 / each	**Y**	**Y**
				Supplier Total	$0.00	

Pharmacy Alternatives, LLC

Item: **Please attach all documents to this line**

Attachments

1708-185 Williamson County · Pharmacy Alternatives Proposal.pdf

A. TRANSMITTAL LETTER

Pharmacy Alternatives

September 11, 2017

Brenda Fuller
Williamson County Purchasing Department
901 South Austin Avenue
Georgetown, TX 78626

Dear Ms. Fuller:

Pharmacy Alternatives, LLC is pleased to submit our proposal to supply pharmaceutical service and supplies to the Williamson County Jail as outlined in solicitation 1708-185. As the President of Pharmacy Solutions and Integrated Care, I am authorized to enter into contract with Williamson County.

Pharmacy Alternatives provides pharmacy services to more than 2,700 clients across Texas who are in residential and group homes. We are a comprehensive, closed-door pharmacy with the clinical experience, state-of-the-art systems, and logistical expertise to deliver timely, efficient, top-quality pharmaceutical services to Williamson County.

Nationwide, Pharmacy Alternatives provides services in 24 states and the District of Columbia. Our licensed pharmacists and staff currently fill and distribute over 140,000 prescriptions per month. Our nationwide experience includes serving customers in juvenile detention facilities, long-term care facilities, residential youth facilities, group homes, and other congregate settings.

A. ***Name and address of individual or business entity submitting the Proposal***
Pharmacy Alternatives, LLC
11401 Bluegrass Parkway
Louisville, KY 40299

B. ***Respondent's type of business entity***
Limited Liability Company (LLC)

C. ***Place of incorporation or organization, if applicable.***
Incorporated in Kentucky

D. ***Name and location of major offices and other facilities that relate to the Respondent performance under the terms of this RFP.***
Pharmacy Alternatives has core operational facilities in nine locations that provide services in 24 states and the District of Columbia (see following table).

Facility Location	Providing Comprehensive Services Throughout
Orange, CA	Arizona, California, Nevada, Utah, Washington
Valdosta, GA	Florida, Georgia
Elmhurst, IL	Illinois, Michigan, Minnesota

Facility Location	Providing Comprehensive Services Throughout
Lenexa, KS	Kansas, Missouri, (licensed in Colorado and Nebraska)
Louisville, KY	Indiana, Kentucky, Ohio, Tennessee
New Orleans, LA	Louisiana
★**Austin, TX**	Oklahoma, Texas
Christiansburg, VA	Maryland, New Jersey, North Carolina, Virginia, West Virginia, Washington D.C.
Rochester, NY	(currently in New York licensure process)

E. ***Name, physical address, email address, business and fax numbers of the Respondent's principal contact regarding all contractual matters relating to this RFP.***
Principal Contact: Paul Delomel, Director of Pharmacy
5810 Trade Center Drive, Building 1, Suite 400
Austin, TX 78744
paul.delomel@palrx.com
Phone: 512-383-9229
Fax: 866-370-4347

F. ***The Respondent's Federal Employer Identification Number.***
20-3612272

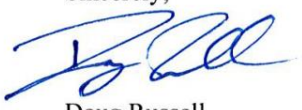
G. ***A commitment by the Respondent to provide the services required by the County.***
Pharmacy Alternatives commits to provide the services required by the County as defined in the proposal specifications.

H. ***A statement that the Proposal is valid for the time specified on page three (3), under the section named Prices Good for, of this Proposal packet. Any Proposal containing a term less than the required amount may, at the County's sole discretion, be rejected as non-responsive.***
I attest that Pharmacy Alternatives' proposal is valid for a minimum of 90 days after the deadline for receipt of proposals.

I. ***If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.40, Air Quality, for more information.***
Pharmacy Alternatives' bid for pharmaceutical service and supplies will not have an effect on air quality for Williamson County.

We welcome the opportunity to discuss our commitment to provide best-in-class pharmacy services to Williamson County. Please contact our Director of Pharmacy, Paul Delomel, at (512) 383-9229 or at paul.delomel@palrx.com if you have any questions.

Sincerely,



Doug Russell
President, Pharmacy Solutions and Integrated Care

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C. EXECUTIVE SUMMARY

The Respondent should provide an Executive Summary of its Proposal that asserts that the Respondent is providing in its response all of the requirements of this RFP. The Executive Summary should not include any information concerning the cost of the Proposal, but instead must represent a full and concise summary of the contents of the Proposal. It is recommended that the Executive Summary include the following information:

A. Identify any goods and/or services that are provided beyond those specifically requested. If the Respondent is providing services and/or goods that do not meet the specific requirements of this RFP, but in the opinion of the Respondent, are equivalent or superior to those specifically requested, any such differences should be noted in the Executive Summary. However, the Respondent must realize that failure to provide the goods and/or services specifically required, at the County's sole discretion, may result in disqualification of the Proposal.

B. Indicate why the Respondent believes that it is the most qualified Respondent to provide the services described in this RFP. The Successful Respondent must demonstrate extensive experience and understanding of the intent of this project. The Respondent should describe in detail the current and historical experience the Respondent and its subcontractors have that would be relevant to completing the project. References must contain the name of key personnel and telephone numbers for each contact, as described in Section 3.14, References.

C. Briefly state why the Respondent believes its proposed goods and/or services best meet the County's needs and RFP requirements, and the Respondent also should concisely describe any additional features, aspects, or advantages of its goods and/or services in any relevant area not covered elsewhere in its Proposal.

Pharmacy Alternatives, LLC is a comprehensive, closed-door pharmacy with the clinical experience, state-of-the-art systems, and logistical expertise to deliver timely, efficient, top-quality pharmaceutical services to Williamson County. Nationwide, our licensed pharmacists and staff currently fill and distribute over 140,000 prescriptions per month—over 1.4 million annually—to more than 16,000 individual consumers in long-term care facilities, youth detention centers, group homes, and other congregate settings.

Pharmacy Alternatives' Austin facility serves more than 2,700 individuals each month in residential facilities and group homes across Texas. We have been serving Texas consumers since 2006 and have the infrastructure, systems and processes, and distribution capabilities to serve Williamson County effectively. We serve large-scale customers providing pharmacy services to congregate settings, including as a subcontractor for our parent company, Res-Care, Inc., providing services and supports to individuals with intellectual and developmental disabilities in congregate care settings. As our references on the Proposal References form illustrate, Pharmacy Alternatives also delivers pharmaceutical services to juvenile justice facilities throughout the Commonwealth of Kentucky.

Williamson County can rely on Pharmacy Alternatives for medication procurement, distribution, and management services with absolute confidence for the following reasons:

- **Experience:** Our team has over 200 years of collective pharmacy experience, primarily in non-retail settings, with expert knowledge of pharmacy operations, reimbursements, and regulatory compliance. The top leaders who will be responsible for services to Williamson County are all Registered Pharmacists.

- **Technology:** We offer innovative pharmaceutical, billing, and medical records systems, including advanced automated packaging and labeling technology, with skilled oversight from licensed staff. For example, our specialized robotic dispensing and packaging technology makes it easy to package hundreds of blister packs per day while greatly reducing the chance of errors.
- **Service:** Our team is performance-driven, client-focused, and highly responsive; we will ensure that pharmaceutical services are integrated seamlessly into the service delivery systems of Williamson County. We also offer value-added services, such as education/training programs for non-licensed Williamson County staff.
- **Distribution:** Having a pharmacy in Austin means we can guarantee prompt delivery and support that exceeds the responsiveness and capabilities of any other provider. We also have a dedicated logistics staff and proven delivery capabilities; prescriptions are filled and delivered same-day or next day without fail using UPS and local couriers. Emergency prescription fulfillment is available 24/7.

EXPERIENCED STAFF

Our senior leaders and Austin team will manage prescription fulfillment, distribution, customer service, quality assurance, regulatory compliance, and contractual performance.

Douglas Russell, RPh

Douglas Russell is President of Pharmacy Solutions and Integrated Care with executive oversight responsibilities for all of the company's operations. Mr. Russell has more than 30 years of pharmaceutical experience, first as the owner of an independent pharmacy that provided services to congregate settings such as long-term care facilities and correctional institutions, then as the founder, in January 2006, of Pharmacy Alternatives. Mr. Russell holds a bachelor's degree in pharmacy from the University of Iowa. He is a Fellow of the American Society of Consultant Pharmacists.

Michael Varnado, PharmD

Michael Varnado joined Pharmacy Alternatives in 2012 as Director of Pharmacy for the company's Louisiana operation. In July 2014, he transitioned to his current role as Regional Director with oversight and support responsibility for pharmacy and business operations at each of the company's nine core facilities. Dr. Varnado has 10 years of pharmaceutical experience in both long-term care and retail settings. Dr. Varnado is a magna cum laude graduate of Xavier College of Pharmacy in New Orleans and a member of the American Pharmacists Association.

Paul Delomel

Paul Delomel heads our Austin-based facility, with responsibility for daily pharmacy operations, customer service, and quality assurance across Texas and Oklahoma. He has 39 years of pharmacy experience, including 28 years of management experience and eight years with Pharmacy Alternatives. Mr. Delomel is a graduate of the University of Texas College of Pharmacy and is licensed to practice pharmacy in Texas, Oklahoma, and Alaska.

As Director for our Texas operations, Mr. Delomel will be the day-to-day contact for Williamson County. Our Austin team has over 350 years of combined experience and fills 21,000 prescriptions each month on average. Mr. Delomel has responsibility for ensuring that he and his

team provide expert support in the following areas as part of our comprehensive service delivery:

- **Operations:** Best practices for closed-door pharmacy operations using Six-Sigma workflow
- **Regulatory Compliance:** Federal and state pharmacy rules, regulations, and pending legislation
- **Customer Service:** Full understanding of the customers we serve and our role in their pharmaceutical needs
- **Value Added:** Full commitment to exceeding goals to ensure our customers and consumer populations receive the performance outcomes and service they deserve and expect

SUPPLEMENTAL SERVICES

Education and Training

Pharmacy Alternatives staff will provide County Jail staff with in-service information and training necessary to ensure proper knowledge of our policies and procedures regarding administering and ordering medications, as well as our system for distributing medications.

Pharmacy Alternatives' expert staff can also provide access to additional value-added education and training resources at no cost to the County. County Jail personnel will have access to webinars, customized educational support, and live in-service training, as appropriate. Webinar topics include:

- Drugs of Abuse
- Alcohol and Drug Interactions
- Neurotransmitters: What Are They?
- How Do We Treat Seizures?
- What Is An Allergic Reaction To a Drug and How Do We Treat It?
- Skin Reactions To Drugs
- Catching Your Breath: Treatment of Asthma
- General First Aid
- Keeping Your Heart Healthy
- Common Drug and Food Interactions

Furthermore, Pharmacy Alternatives distributes a monthly newsletter that includes pharmacy best practices, new medications, staff training guidance, and relevant research.

Technology Solutions

Pharmacy Alternatives is an innovative leader using technology to increase medication management, adherence, and compliance to improve care and ensure quality outcomes. We leverage an Electronic Medication Administration Record system to improve efficiency in properly administering medications, and in tracking, documenting, and reporting medication administration. The most common errors include omitted doses, medications not taken as directed, taking the wrong medicine, and preparing the medicine incorrectly. The system will even flag situations where doctors have prescribed medications that should not be taken together. Our service offers pharmaceutical systems and packaging technology designed to reduce medication errors and increase adherence for populations under our care. As a result, we can

enhance consumer care, safety, and health outcomes, including increased physical function, alleviation of symptoms, reduction in behaviors, and improved quality of life.

Transition Planning

Pharmacy Alternatives recognizes that each of our customers is unique and that excellent customer service and a strong working relationship start well before the first prescription is filled. Since our company began in 2006, we have transitioned and integrated into our service delivery system a number of large agencies and facilities, many supporting hundreds of individuals. On average over the past few years, we have integrated a new large-scale customer each month. Our experience has enabled us to develop and offer leading expertise in transition and service integration, including dedicated staff resources and proven processes for onboarding new customers.

Our team will develop a detailed New Customer Integration Workplan, which documents and tracks the progress and completion of every deliverable associated with the transition. This includes contact information, site visits, internal and external processes, individual consumer information, prescription compliance, distribution requirements and logistics, billing information, equipment procurement and delivery, and any other contract-specific obligations.

More than just a pharmaceutical company, Pharmacy Alternatives blends passion for human services, outstanding clinical knowledge and expertise, and acumen in distribution, business management, and quality assurance in a way that truly sets us apart from other providers.

D. PROPOSAL RESPONSE TO CRITERIA

Please acknowledge and/or respond to each of the specifications listed below and expound your firm's abilities to meet or exceed these requirements.

1. *Proposer agrees and understands that the awarded proposer will be the principal source of supply for pharmaceuticals during the term of the contract. However, Williamson County reserves the right to purchase these products from other sources of supply in case of emergency or when the vendor is out of stock and it becomes necessary for Williamson County to support its immediate operational requirements.*

Pharmacy Alternatives, LLC agrees and understands that, if selected, we will be the principal source of supply for pharmaceuticals during the term of the contract. Pharmacy Alternatives acknowledges Williamson County's right to purchase these products from other sources of supply in case of emergency or when the vendor is out of stock and it becomes necessary for Williamson County to support its immediate operational requirements.

2. *All pharmaceuticals, chemicals, and drugs provided under this contract shall conform to the standards set by the Federal Food and Drug Administration and the latest editions of the US Pharmacopoeia, the National Formulary, or the American Medical Association's publication, New Drugs, where applicable, whether-or-not this is specially indicated in the specification or proposal. In cases of multi-source drug products, names of manufacturers must be listed in the current FDS of approved drug products with therapeutic equivalence evaluations publication.*

All pharmaceuticals, chemicals, and drugs provided by Pharmacy Alternatives under this contract will conform to the standards by the Federal Food and Drug Administration and the latest editions of the United States Pharmacopoeia, the National Formulary, or the American Medical Association's publication, New Drugs, where applicable. In cases of multi-source drug products, names of manufacturers will be listed in the current FDS of approved drug products with therapeutic equivalence evaluations publication.

3. *Supplier must hold approved New Drug Applications (NDA) or Abbreviated New Drug Application (ANDA) for all products.*

Pharmacy Alternatives holds or will hold approved New Drug Applications or Abbreviated New Drug Application for all products, per Texas Board of Pharmacy Rules and Regulations.

4. *Supplier must be a licensed Medicaid provider.*

Pharmacy Alternatives, LLC is a licensed Medicaid provider. We currently serve Medicaid consumers with high medical and behavioral needs in long-term care settings.

5. *Supplier must be an approved pharmacy by the Texas Department of Health/HIV program.*

Pharmacy Alternatives, LLC will complete the certification process to be an approved pharmacy by the Texas Department of Health/HIV program.

6. *All products must be packaged in a manner that will afford reasonable protection against moisture and contamination always.*
   a. Supplier shall utilize blister packs for dispensing of medications.
   b. Labels shall be affixed to the blister pack and the Medication Administration Record (MAR). Labels shall contain all the necessary information required by law as well as the inmate's housing unit and date of birth. ***A sample of the blister pack should be included.***

c. Supplier shall furnish Keep on Person (KOP) medications in approved containers and label them as such.
d. Supplier shall provide the County with a minimum of four (4) medication carts for the dispensing of medications at no additional cost to the County. These carts shall be furnished with locks and keys in order to prevent unauthorized access.
e. Supplier shall have ability to provide a stock-medication type inventory.
f. Protocols must be updated often to stay abreast of community standards.

Pharmacy Alternatives provides medications in blister pack cards for most customers. These cards typically have 31 or 62 bubbles per card. We can also customize our blister pack cards to accommodate a 7- to 30-day issue cycle. A photograph of our sample blister pack has been provided on page 33. This packaging makes it easier for Williamson County staff and consumers to identify the enclosed medication, which decreases the potential for medication dosing errors, increases drug recognition and patient compliance, and works effectively whether consumers self-administer their medications or jail staff administers the medications.

All prescription medication containers will be labeled with the following information: brand or generic name of medication; strength of medication; quantity; expiration date; consumer's name; directions for use; physician's name; date of dispensing; name, address, and phone number of pharmacy dispensing; prescription number; any applicable auxiliary labels; total number of containers (example: 1 of 2, 2 of 2); consumer's date of birth; and inmate housing unit. Each individual's blister pack/container has a prescription label affixed to the packaging with a scannable bar code, which can be peeled off and applied to the individual's MAR to expedite reorders. Our peel-off labeling and reordering system ensures that individuals will not run out of prescribed medications and that Williamson County staff will not need to write out reorders.

We will provide the County with a minimum of four medication carts to facilitate secure storage and distribution of medications by staff. We will provide training on all equipment during initial in-service for all identified staff.

Pharmacy Alternatives will furnish Keep on Person medications in approved containers and will label them as such. We will provide all medications in containers that are allowable under current state and federal laws. Medications cannot be transferred from one container to another.

Pharmacy Alternatives can make stock-medication type inventory available through medication lockers, such as the Pyxis MedStation™. We can also provide an emergency or stock drug kit as needed by the County. We utilize our Framework and ABC software systems to help our teams track pharmacy inventory on a daily and quarterly basis.

Our Policy and Procedure Manual conforms with the latest revisions of Conditions of Participation, Medicare and Medicaid Program; Texas Pharmacy Law, Rules, and Regulations; Federal OBRA regulations; National Commission on Correctional Health Care/American Correctional Association standards; and Accepted Long-Term Care Pharmacy Standards of Practice. We maintain policies and procedures at our corporate, state, and local levels to ensure we comply with the most stringent pharmacy practices. Our leadership team brings expert knowledge of local, state, and federal regulations. Our Quality and Legal departments also support local operations in complying with regulations and monitoring the ever-evolving regulatory landscape.

7. *Unless exceptions are made, such as for biological, all shipments of pharmaceutical products, which incur expiration dates, must have a minimum of one-year dating as of*

delivery.

A year expiration date is listed on every prescription packed and distributed by Pharmacy Alternatives. A registered pharmacist carefully reviews each order three times: upon receipt, after the medication is dispensed, and before shipment. Prior to shipping, the licensed pharmacist verifies accuracy and completeness by checking every order, including confirmation that expiration dates are not within one year of delivery for each medication.

8. *Items meeting the following criteria shall be exchangeable or creditable at the contracted price:*
   a. Trademarked items in original unopened package in accordance with the vendor's return goods policy. Vendor shall provide a copy of the return goods policy.
   b. Non-trademarked items in original unopened packages, in accordance with the vendor's return goods policy.
   c. Outdated biological products returned within one year after expiration date.
   d. Any product that arouses questionable physical properties or therapeutic activities. The County reserves the right to return such product to the vendor for credit or immediate replacement. Return of such products shall not require prior notification to the vendor, and shall be returned at the vendor's expense.

Pharmacy Alternatives will accept returns, exchange, and issue credits for any acceptable item that meets Texas State Board of Pharmacy requirements for returns. Medications that can be returned to the pharmacy for credit are returned in a timely manner, and documentation of the return is maintained for accurate medication reconciliation. A copy of our return goods policy can be found on page 35.

9. *The County reserves the right to submit samples of products of doubtful potency or composition to a competent independent laboratory for assay, and in such cases, the cost of such assay will be paid by the supplier if products are found to be below US Pharmacopoeia, National Formulary, or Federal Standards.*

Pharmacy Alternatives understands and accepts the County's right to submit samples of products of doubtful potency or composition to an independent laboratory for assay. Pharmacy Alternatives acknowledges that the cost of such assay will be our responsibility if products are found to be below U.S. Pharmacopoeia, National Formulary, or Federal Standards.

10. *Final inspection of all products and decision of acceptance or rejection will be made by the County. Final inspection shall be conclusive except with respect to latent defects, fraud, or such gross mistakes as shall amount to fraud. Final inspection resulting in acceptance or rejection of the products will be made as soon as practicable, but failure to inspect shall not be construed as a waiver by the County to claim reimbursement or damages for such products which are later found to be in nonconformance with specifications.*

Pharmacy Alternatives understands and accepts that final inspection of all products and decision of acceptance or rejection will be made by the County.

11. *The County shall be billed monthly. The bill procedures shall allow for separate billing for inmates that are identified as I.N.S. or U.S. Marshall inmates and that billing should go directly to the respective agency.*

Pharmacy Alternatives will ensure timely and accurate billing to Williamson County. The County will be billed on a monthly basis for all pharmaceuticals received during the period.

Pharmacy Alternatives has the capability to bill separately and directly for inmates who are identified as I.N.S. or U.S. Marshal inmates. Our highly responsive billing and medical records team will provide expert support to the County.

12. Separate itemized billing and credit invoices, on-line or computerized program for billing and credits, computerized inventory control in addition to online ordering must be provided and should be used for invoice reconciliation. In addition, the County Jail must be notified via email and/or fax prior to shipment of partial orders. The email or fax must list what item(s) and quantity(s) are not being shipped and when these item(s) will be available for shipment to complete the order.

Pharmacy Alternatives uses the Oracle system to manage billing and invoicing. We have the capacity to set up online billing, if desired by the County. Computerized inventory is managed by our Framework and ABC software systems, which allow our pharmacy staff to track pharmacy inventory on a daily and quarterly basis. Medications may be ordered via electronic prescriptions or by faxed prescriptions via our toll-free line. For electronic prescriptions, Pharmacy Alternatives utilizes an operating system called FrameworkLink, which is developed and supported by Softwriters. For faxed prescriptions, we utilize the paperless fax imaging system, DocuTrack, which can also accept electronic prescriptions from the majority of Electronic Health Records software systems. The County Jail will be notified via email and/or fax prior to the shipment of partial orders, to include a list of items and quantities not being shipped and a timeline for when those items will be available for shipment to complete the order.

Our robotic dispensing system.

13. Inventory should be controlled by scanning orders for delivery and return.

Pharmacy Alternatives uses specialized robotic dispensing and packaging technology. The package labeling includes a scannable bar code on top, so that we know exactly what medication is going in and coming out. We are also able to affix a prescription label to the packaging, which can be peeled off and applied to the individual's MAR to expedite reorders.

14. Supplier shall have the ability to generate the following reports:
i. Tracking use of medications by inmate, specific doctor, or specific medication
ii. Online invoicing
iii. Itemized incoming deliveries
iv. Online credits and online returns
v. Overall credit % per time period requested
vi. "Ad hoc" reports

Our operating systems enable regular and robust reporting to the County. The information and prescriptions we receive from the County will be entered into our Framework operating system. This system stores all information that we gather on an individual. At any designated time, we can run reports that consolidate desired data points and print them in the format of the County's choosing. We will generate monthly reports on all data points required by contract, including usage by inmate, physician, medication, and category of medication. We also have the capability to send reports summarizing credits and overall credit percentage for the requested time period at

any interval desired by the County.

Ad-hoc reports can also be generated on demand. Any categorized data can be prepared for a report, such as number of individuals on certain medications, laboratory orders, or those with a certain diagnosis. These can be prepared quickly and emailed or mailed to County authorized staff whenever requested. Additionally, our clinical pharmacists can prepare reports highlighting the use of psychotropic medications, such as number of individuals on antipsychotics, antidepressants, antianxiety medications, etc.

Pharmacy Alternatives sends invoices via fax, mail, or email. We have the capacity to set up online invoicing and billing, if desired by the County. We process credits via our Framework system and will send credit paperwork to the facility via email or other preferred method.

All of Pharmacy Alternatives' deliveries are accompanied by an itemized packing slip. We can also provide UPS/FedEx tracking numbers for notification of delivery.

15. *A computerized program interface linking the County Jail to the supplier must be available. Provide a detailed description of the interface including any software and/or hardware that is required. If software and/or hardware are required, state whether it will be provided by the supplier or must be provided by the County.*

FrameworkLink

FrameworkLink enables real-time communication between Pharmacy Alternatives and the facility by providing the ability to exchange secure, categorized messages and track order status. We can provide authorized key staff at the County with access to FrameworkLink, if desired. This portal provides staff with 24/7 access to up-to-the-minute medication regimens and consumer information. Not only can authorized staff see the full medication regimen, they can also execute key clinical reports to search for desired information, such as drug class-specific data and polypharmacy utilization. Staff can use a computer workstation or connect remotely via smartphone or tablet device to access the website. FrameworkLink is compatible with any computer or system type and would not require any additional hardware or software.

QuickMAR

Pharmacy Alternatives can also make available a value-added software system, QuickMAR, to our customers. QuickMAR is an electronic Medication Administration Records software system that provides a simple way to improve staff efficiency in properly administering medications, and in tracking, documenting, and reporting medication administration, thereby enhancing care, safety, and health outcomes. QuickMAR provides a touch-screen enabled interface that features the name and photograph of each individual, his/her prescribed medication regimen, and the time of day medications are due. A barcode scanner connected to the system enables staff to scan each prescribed medication before it is dispensed, automatically "checking off" that medication in the system. QuickMAR requires a Windows operating system, at minimum Windows 10. We would require the County to provide Windows 10 or newer software for the use of QuickMAR. Pharmacy Alternatives will provide the touch-screen interface and barcode scanner equipment to the County.

16. Supplier shall provide on-site quarterly inspections by a registered Pharmacist at no additional charge upon request by the County.

Independent consultant pharmacists will conduct quarterly site audits and quality assurance reviews as part of our service solution. Following each audit, a written report will be submitted to the appropriate leadership contact highlighting any areas of concern and/or recommendation for improving pharmacy services or staff performance.

In addition to quarterly site audits from independent consultant pharmacists, Pharmacy Alternatives participates in our proprietary Best In Class© quality assurance monitoring system, designed to enforce consistent application of best practices in all of our pharmacy operations. This system is a proven model of ongoing program evaluation, quality assurance, and risk management, which provides critical, regular feedback to ensure that specific contractual and programmatic goals and outcomes are achieved.

Each Best In Class© review is composed of 82 performance indicators and is conducted at least quarterly by internal staff; external reviews are conducted annually by corporate/regional experts and are augmented by annual corporate-level compliance reviews. Should Pharmacy Alternatives be awarded this contract, the reviews at each of these levels will incorporate County-specific service requirements and contractual obligations, as well as applicable local, state, and federal regulations, to ensure that Pharmacy Alternatives maintains compliance with and meets or exceeds Texas Board of Pharmacy and NCCHC/ACA service standards and performance expectations.

17. Evaluation of proposals will be made to the responsive or responsible Pharmaceutical Supplier submitting the overall best proposal, with 40% of the evaluation weighted criteria on having the lowest cost consisting of the current average wholesale price (AWP) minus percent (%) discount plus a dispensing fee (if applicable). Alternative pricing models may be considered. The publication used to determine average wholesale price should be provided by each proposer. In addition, 30% of the evaluation weighted criteria will be on meeting specific requirements, and 30% of the evaluation weighted criteria on vendor submitted references and vendor experience working with correctional facilities.

Pharmacy Alternatives acknowledges our understanding of the evaluation criteria. We use Medi-Span and/or RED BOOK™ as the source for average wholesale prices. We will keep the County apprised of any information we learn regarding spend-downs and medication price increases whenever possible.

18. Proposers overall mark-up prices shall include cost of shipping and delivery of the pharmaceutical item to the designated delivery point and shall not include Federal or State of Texas sales, excise, and use taxes.

Pharmacy Alternatives' proposed prices are inclusive of the cost of FOB shipping and delivery of all pharmaceutical items to the designated delivery point. Pharmacy Alternatives prices do not include Federal or State of Texas sales, excise, and use taxes.

19. Proposer shall provide three (3) price list copies plus one original with their proposal.

Pharmacy Alternatives has elected to submit our proposal via the BidSync online portal.

20. The preferred order method for new prescriptions and refills shall be online, however, orders placed by fax or phone shall be accepted. Additionally, emergency "stat"

ordering shall be done by phone.

Pharmacy Alternatives strives to make the medication ordering process as simple and efficient as possible for all of our customers. Medications may be ordered via electronic prescriptions or by faxed prescriptions via our toll-free line. For electronic prescriptions, Pharmacy Alternatives utilizes our FrameworkLink operating system. For faxed prescriptions, we utilize a paperless fax imaging system, DocuTrack, which can also accept electronic prescriptions from the majority of Electronic Health Records software systems utilized by physicians. No matter the order method, we have established systems in place to verify the accuracy and completeness of each order received.

Emergency "stat" ordering will be available by phone and fax. Medications that are ordered "stat" are available during normal pharmacy hours. Our 24-hour emergency staff has full secure access to our operating system and our paperless imaging fax system. This secure, after-hours access to our operating systems allows emergency staff to view all prescriptions submitted after hours and follow the same protocols to ensure quality and safety. This process includes a review of the order's compliance, a review of current medication regimens, crosschecking for allergies and drug interactions, and ensuring a final accuracy check on packaging and labeling to assure compliance with prescribed orders.

For each order, our system automatically performs a Drug Utilization Review of every prescription to prevent drug duplication, under-dosing, and overdosing, and to protect against adverse drug interactions. A licensed pharmacist reviews each new order in combination with the medication history, allergies, and other pertinent information in our DocuTrack system. The pharmacist looks for potentially dangerous drug interactions, allergy to the medication, and other contraindications for use that would be serious. The pharmacist enters new orders into the dispensing system for the first time so that they will be filled right away by the dispensing pharmacist, who ensures that all medication dispensed is in compliance with prescribed orders.

21. *Delivery of all items supplied under this contract shall be made FOB destination. The proposer shall provide next day delivery for all items ordered by 4:00 PM the previous day. Deliveries shall be made Monday through Saturday. Orders received by vendor on Saturday shall be delivered on Monday.*

Our distribution and delivery capabilities are a key part of our success. Each month, Pharmacy Alternatives fills and delivers more than 140,000 prescriptions in 24 states and the District of Columbia. We pride ourselves on our ability to deliver medications at least once daily across large geographical areas from a centralized location. Our Austin pharmacy location is within 30 miles of Williamson County Jail, affording us the ability to guarantee timely daily deliveries, Monday through Saturday, as required. Prescriptions ordered electronically or via fax by 4:00 p.m. CT will be filled and delivered same day; the choice of order deadline and delivery time can be determined in consultation with Williamson County. Moreover, Pharmacy Alternatives can deliver stat orders same day due to our geographic proximity. Pharmacy Alternatives will be responsible for all shipments, FOB.

22. *Supplier will be required to maintain all records for five (5) years. These records shall be the property of the County.*

Records of medications ordered and received will be retained for at least five years. We have centralized many administrative functions, such as billing and medical records, at our corporate offices, in order to give our Directors of Pharmacy at each facility the ability to focus solely on

what they do best: provide top-quality pharmacy services and clinical support. Pharmacy Alternatives maintains stringent procedures to ensure confidentiality and compliance with HIPAA regulations. All pharmacy data will be backed up daily and stored in both a secure cloud-based server and in a secure server located at our company headquarters. This redundant back-up and secure storage system will ensure that pharmacy and individual data is maintained according to contract.

23. The proposer's representative must be available to respond to calls from the using county agencies to assist in filling emergency orders, resolving complaints and problems regarding orders and deliveries, and the return of goods.

We pride ourselves on our responsiveness and the high-quality customer service provided to the agencies we serve. At the initiation of pharmacy services, Paul Delomel, Director of Pharmacy, will conduct a face-to-face meeting with the Williamson County team. The meeting shall include the transition of pharmacy services and an introduction of key personnel. During ongoing service delivery, Williamson County will have timely access to our Austin team for assistance in filling emergency orders, resolving complaints and problems regarding orders and deliveries, and the return of goods.

24. The proposer shall provide a local telephone number or toll-free number from Georgetown, Texas for the placement of calls against this contract and shall provide the name, title, and telephone number of a representative who can be contacted and available to provide around-the-clock, 24-hour, 7-days a week, customer service. Telephone numbers provided for this purpose shall not be serviced through an answering machine or other automatic answering device, or in any manner to impede immediate access to a representative capable of addressing emergencies and problems.
i. Name
ii. Phone number
iii. Emergency order phone number
iv. Fax number

Paul Delomel, Director of Pharmacy, will be the primary contact for calls related to this contract.

- *Phone number during business hours (Mon–Fri, 9 a.m. to 5 p.m.*): 512-383-9229
- *Fax number during business hours*: 866-370-4347
- *After-hours/emergency order phone*: 866-336-8083

In addition to 24/7 support from our Austin team, Pharmacy Alternatives also leverages the support of RPh On-Call for dedicated, 24/7 access to a customer service representative. Additional after-hours contact information for RPh On-Call is included blow:

- *By email*: rphoncall@rphoncall.net
- *By fax*: 1-866-777-750 or 1-888-717-7175

25. All orders will be placed through the issuance of a purchase order. The purchase order number must be referenced on all invoices submitted to Williamson County.

Pharmacy Alternatives understands that all orders will be placed through the issuance of a purchase order. The purchase order number will be referenced on all Pharmacy Alternatives invoices submitted to Williamson County.

26. Williamson County would prefer a vendor with substantial experience working in

correctional facilities. Please provide your firm's years of experience in correctional environments.

Pharmacy Alternatives has more than 10 years of experience in specialized pharmacy services to special-needs populations. The individuals we serve live in detention centers, intermediate care facilities, waiver homes, group homes, assisted living, or foster care arrangements. The more than 16,000 consumers we serve nationwide have varied physical, behavioral, mental illness, and developmental disability diagnoses.

Pharmacy Alternatives has provided pharmaceutical services for the Kentucky Department of Juvenile Justice for all of their residential facilities, detention centers, and group homes across the state since August 2016. We currently deliver medications for next day delivery to over 30 locations in the state, including eight secure detention centers. Any stat/emergency doses are able to be filled through retail pharmacies in their local area at no charge to them.

Filling DJJ's medication orders has been a simple process as they have tied into our current workflow seamlessly. The DJJ facilities use supplies that we previously did not carry; however, Pharmacy Alternatives has never denied a request and always goes above and beyond to find the needed supplies.

Success Story:
100% Delivery Maintained During Hurricane Harvey

Pharmacy Alternatives maintains a fail-safe distribution plan for every customer that ensures on-time delivery of needed medications even during emergencies and natural disasters.

In August, when Hurricane Harvey saturated south Texas, our Austin-based pharmacy facility and senior leadership answered the call. We immediately deployed our emergency distribution plan and strengthened logistics.

The result? Not a single one of the 826 individuals we support went without needed medications or supplies during this natural disaster. We even delivered insulin, which was entirely unavailable, to a client in just in time for her 5:00 p.m. dose.

E. PRICE SHEET

Pharmacy Alternatives has completed the Price Sheet via BidSync as instructed by the RFP.

F. REFERENCES

Pharmacy Alternatives has completed the References Form via BidSync as instructed by the RFP.

G. CONFLICT OF INTEREST QUESTIONNAIRE

Pharmacy Alternatives has completed the Conflict of Interest Form via BidSync as instructed by the RFP.

H. PROPOSAL AFFIDAVIT

Pharmacy Alternatives has completed the Proposal Affidavit via BidSync as instructed by the RFP.

I. SAMPLE CONTRACT

Pharmacy Alternatives submits the following sample contract for consideration. We will work collaboratively with Williamson County during contract negotiations to refine terms and conditions.

Pharmacy Alternatives

Exceptional People - Exceptional Service - Exceptional Outcomes

PROFESSIONAL SERVICE AGREEMENT

This agreement ("Agreement") is made as of this **XX**th day of **XXXXXXXX 2017**, by and between **SAMPLE** (hereafter the "Provider") and Pharmacy Alternatives, LLC (hereafter the "Contractor").

WHEREAS, the Contractor is duly licensed to practice Pharmacy in Texas and desires to provide said services to the Provider.

NOW, THEREFORE, in consideration of the mutual promises and covenants contained in this Agreement, the parties agree as follows:

1. GOODS AND SERVICES

A. Contractor shall provide the following services:
The services described on Exhibit A attached hereto and incorporated herein only if applicable (Consulting Services).

Contractor shall provide such services as scheduled by Provider's Administrator or his/her designee. Furthermore, Contractor shall perform such other usual and customary consulting services as the Provider may reasonably request.

B. To the extent required by the laws and regulations governing Provider's operation, particularly Medicaid and Medicare, provider retains administrative responsibility for the services provided hereunder. Both parties shall comply fully with all applicable laws, regulations and accreditation standards governing their respective operations and professions. Contractor shall provide the services hereunder without discrimination as to race, color, creed, sex, age, national origin, religion, disability, veteran, economic or social status.

C. Contractor shall supply, at Contractor's expense, all equipment, materials and/or supplies necessary to provide services hereunder. However, due to the nature of Provider's business, there may be certain reports or information required (or implied) by state, local or federal governments. In such case, the Provider shall provide the format of such reports in order to comply with reporting requirements.

D. Provider shall not be obligated to Contractor for any expense paid or incurred by Contractor unless Provider agrees in writing to reimburse Contractor.

E. Contractor agrees to maintain the appropriate licensure, certification, and insurance, which is available upon request of the Provider.

F. Contractor agrees to provide or arrange to provide coverage twenty-four (24) hours per day, seven (7) days per week for Provider's clients. If Contractor does not furnish ordered emergency service or items or supplies, Contractor shall make arrangements with another pharmacy, located close to the Provider, to provide such goods or services to Provider, and shall notify Provide in writing of such arrangements.

G. Contractor agrees to provide drug information and consultation to Provider's licensed professional staff regarding such drugs as may be ordered.

H. Contractor agrees to label all medications in accordance with state and federal law.

I. Contractor agrees to maintain drug profiles on all clients of Provider.

J. Exclusivity: provider agrees that Contractor is the sole provider of Pharmacy services to the Provider and its clients during the term of the agreement, unless otherwise required by law.

K. Provider agrees to adhere to and supply any and all mandated laboratory results, schedule II prescriptions to the extent required by the laws and regulations governing them by state, local and federal guidelines to the Contractor in a prompt and timely manner.

2. FEES, BILLING, & PAYMENT FOR SERVICES

A. Medical Records: Contractor agrees to provide printed medical records for the fee of **$2.00** per month per consumer.

B. Consulting Services: (See attached Exhibit "A" if applicable)

C. Contractor shall bill Provider at the end of each month for services rendered to Provider and/or its clients as shown in Exhibit A (if applicable and attached hereto) and incorporated herein. Contractor shall provide Provider with a statement in form satisfactory to the Provider specifying services rendered and time involved.

D. Contractor shall be responsible for billing and collecting for all Medicaid and Medicare formulary items (i.e., items for which pharmacies participating in the Medicaid program are eligible for payment from the Medicaid program) provided to Provider clients whose care is covered by Medicaid ("Medicaid clients") and Medicare as well as all items furnished to private-pay clients, i.e., Provider's clients whose care is not covered by

Medicaid or Medicare D. Provider agrees to supply Contractor with all necessary documentation required for such billing (including Prior Authorization documents) prior to the provision of any services to a client of the Provider.

E. Provider agrees to reimburse Contractor in full for any medication charges resulting from untimely supply, within thirty (30) days of request, of necessary documentation required for billing.

F. Provider agrees to furnish Contractor with Physician-signed Prescriptions and/or Physician Orders prior to the provision of any services to a client of the Provider. Provider agrees to continue to furnish Contractor with all signed and updated Prescriptions and/or Physician Orders during the course of service by Provider.

G. For non-formulary items furnished to Medicaid clients, (i.e., items which Provider is required to furnish to Medicaid clients without any charge other than the facility's per diem Medicaid rate) Provider, or in the case it is billed to client, the client, shall reimburse Contractor.

H. Contractor may, at its discretion, directly bill and collect from any third-party reimbursement source other than Medicare D or Medicaid ("Insurer"), to the extent allowed by law. If Contractor elects such option, Provider agrees to furnish Contractor with all necessary documentation for such billing prior to the provision of any services to a client of the Provider. Contractor shall not be obligated to accept, as payment in full, the amount that an Insurer may be willing to pay. Whether or not Contractor receives payment from any Insurer, Contractor may bill a client, or any person responsible for administering a client's affairs, for Contractor's usual and customary charge for items provided to such client, subject to credit for any payment received from an Insurer.

I. Provider shall pay Contractor for direct charge items, i.e., house supply items, over-the-counter items, consumer co-pays, goods provided for Medicare Part A clients, and other charges for which responsibility lies with the Provider rather than Insurers or clients, within thirty (30) days following the receipt of invoice. Any invoice not paid within thirty (30) days of receipt of an invoice from Contractor may accrue interest at the rate of 1.5% per month.

J. Billing Dispute Resolution: Provider agrees to notify, in writing, Contractor for any disputed costs incurred within thirty (30) business days upon receipt of invoices whether on the client account and/or Provider account. Such said disputed charge(s) will be documented and resolved within thirty (30) business days, with the assistance of the Provider.

K. Therapeutic Interchange: Contractor agrees to notify Provider of products, supplies and medications for clients that are not covered by their payment

source (Medicaid or Medicare and/or other insurance plan) within a timely fashion to allow for the opportunity to have the product, supply or medication changed by the physician which is covered under their payment source. It is the Provider's responsibility to ensure a medication order is changed and provided to the Contractor within a timely fashion.

L. Prior Authorization/Approval: Contractor agrees to notify Provider of products, supplies and medications for consumers that are not covered by their payment source (Medicaid or Medicare and/or other insurance plan) within a timely fashion to allow for the opportunity to seek Prior Authorization/Approval. Contractor agrees to follow specific guidance as dictated by Medicaid or Medicare and/or other insurance plan when seeking Prior Authorization/Approval. It is the Provider's responsibility to ensure a Prior Authorization/Approval is provided to the Contractor within a timely fashion of the initial request.

M. Backup-Pharmacy Charges: Provider agrees that after-hour emergency backup pharmacy charges will not be subject to standard therapeutic interchange and prior authorization/approval protocols. Provider agrees to reimburse Contractor for products, supplies and medications requested from Backup-Pharmacy for consumers that are not covered by their payment source (Medicaid or Medicare and/or other insurance plan). Contractor should be contacted prior to use of backup Pharmacy.

N. If payment to Contractor hereunder exceeds $10,000 in a year, Contractor agrees to make available to the Secretary of Health and Human Services ("HHS"), the Comptroller General of the General Accounting Office ("GAO") and Provider, or their authorized representatives, all contracts, books, documents and records necessary to certify the nature and extent of the costs hereunder for a period of four (4) years after furnishing services hereunder. In addition, Contractor agrees if services are to be provided by subcontract with a related organization, to require by contract that such subcontractor make available to HHS, GAO and the Provider or their authorized representatives, all contracts, books, documents, and records that are necessary to certify the nature and extent of the costs thereunder for a period of four (4) years after furnishing services hereunder.

3. PROFESSIONAL QUALIFICATIONS

Contractor shall maintain all applicable licenses and/or certification requirements to practice Contractor's profession and to provide services under this Agreement.

4. TERMS AND TERMINATION

Contractor shall commence providing the goods and services described in this Agreement on the **XX**th day of **XXXXXXXXX 2017,** ("Commencement Date"). The initial term of this Agreement shall be for two years from the Commencement Date. On each anniversary date of the Commencement Date, the term shall be automatically extended for an additional two year term unless either party provides written notice of its intention to terminate the Agreement no later than sixty (60) days prior to the end of the existing term.

A. If either party defaults in any of its obligations under this Agreement, and such default is not cured within sixty (60) days following delivery of written notice from the non-defaulting party to the defaulting party, then the non-defaulting party may terminate this Agreement with thirty (30) days advanced written notice to the other party. Any written notice which claims a default by the other party must (i) specify the default in reasonable detail to allow the other party to adequately respond and (ii) must expressly state that the written notice is a notice of breach pursuant to this section 4(B).

B. In the case of a default by Contractor with regard to any material obligation under Section 1 of this Agreement, if the parties agree on a plan of correction prior to the end of the sixty (60) day cure period, then such default shall be deemed to have been cured for purposes of this section.

C. In the event that Provider fails to pay any invoice within ten (10) days of the due date, Contractor may terminate this Agreement.

D. Either party may immediately terminate this Agreement upon written notice under the following conditions: (i) if any license or permit required for the operation of Provider or Contractor cannot be obtained or is at any time suspended or terminated by the applicable governing or licensing agency; or (ii) in the event of voluntary or involuntary bankruptcy or similar insolvency actions by or against such party.

E. Notwithstanding Section 4(B) and 4(C), no notice of termination from Provider shall be valid unless it is current in its payments to Contractor and proper written notice is provided.

F. Expiration or termination of this Agreement shall not relieve either party from liability for any breach of this Agreement occurring prior to the effective expiration or termination date.

G. Upon expiration or termination of this Agreement, provider shall return to Contractor, in good working condition, all equipment and other Contractor property provided to Provider under this Agreement including without limitation, all formulary documents, manuals, forms and any other documents, information or materials belonging to Contractor.

5. INDEPENDENT CONTRACTOR

Contractor provides services hereunder as an independent contractor and not as an agent or employee of Provider. Contractor shall be responsible to pay all Contractor's federal, state or local income taxes, as well as any applicable worker's compensation or unemployment insurance. Contractor understands that, as an independent contractor, Contractor is not eligible for nor entitled to any employee benefits of Provider. Contractor also understands that he/she is not an agent of the Provider and therefore is not authorized to incur debts or other obligations on behalf of the Provider. Contractor, as an independent contractor, is also entitled to perform services for parties other than the Provider.

6. INSURANCE AND INDEMNIFICATION

A. Contractor shall obtain and maintain general and professional liability insurance in the minimum amount of one million ($1,000,000) for each occurrence and Contractor shall provide Provider with a certificate of insurance as evidence of such coverage. Contractor shall notify Provider of any alteration of the policy immediately upon receiving notice of any such change.

B. Contractor hereby indemnifies and holds Provider harmless from and against any and all liability, claims, damages, losses, or causes of action, and expenses in connection with them (including reasonable attorney's fees) caused or asserted to have been caused, directly or indirectly, as a result of the performance of Contractor's duties under this Agreement. Nothing herein shall relieve Provider from liability proximately caused by employees of Provider in the normal course of their duties.

C. Provider hereby indemnifies and holds Contractor harmless from and against any and all liability, claims, damages, losses, or causes of action, and expenses in connection with them (including reasonable attorney's fees) caused or asserted to have been caused, directly or indirectly, as a result of the performance of Provider's duties under this Agreement. Nothing herein shall relieve Contractor from liability proximately caused by employees of Contractor in the normal course of their duties.

7. PARTIES RIGHTS AND OBLIGATION PURSUANT TO THE HIPAA PRIVACY RULE

The rights and obligations of the parties as described below are established according to the Health Insurance Portability and Accountability Act of 1996 ("HIPAA" or "the Act") and the Privacy Rule (45 C.F.R. parts 160 and 164) established by the Department of Health and Human Services pursuant to the

Act (the "Privacy Rule"). Contractor is a Business Associate as defined in Section 160.103 of the Privacy Rule, as defined below, and Provider is a covered Entity as defined in Section 160.103 of the Privacy Rule.

1. **Definitions**. The following terms shall have the same meaning as those terms in the Privacy Rule: Business Associate, Covered Entity, Individual, Protected Health Information, Data Aggregation.

2. **Contractor's Obligations**

(a) Contractor agrees not to use or disclose, and to use appropriate safeguards to prevent use or disclosure of protected health information other than as permitted or required by the Agreement or as required by law.

(b) Contractor agrees to mitigate, to the extent practicable, any harmful effect that is aware of that result from a use or disclosure of protected health information by it in violation of the requirements of this Agreement.

(c) Contractor agrees to report to the Provider any use or disclosure of the protected health information not provided for by this agreement of which it becomes aware.

(d) Contractor agrees to ensure that its agents, including subcontractors, agree to the same restrictions and conditions that apply through this Agreement to it with respect to the use or disclosure of protected health information received by or on behalf of, or created for or on behalf, of the Provider.

(e) Contractor agrees to provide access to protected health information to Provider, or at the Provider's request to an individual in accordance with the requirements of 45 C.F.R. §164.524

(f) Contractor agrees to make any amendment(s) to protected health information that Provider directs or agrees to pursuant to the standards set forth in 45 C.F.R. §164.524

(g) Contractor agrees to make available to the Secretary or his designee its internal practices, books, and records, and policies and procedures or those of Provider used by Contractor related to the use and disclosure of protected health information for the purpose of determining Provider's compliance with the Privacy Rule. The Secretary shall have access to such information in the time period and manner agreed to by the parties or prescribed by the Privacy Rule.

(h) Contractor agrees to maintain documentation of and information related to its uses and disclosures of protected health information to permit Provider to provide an accounting of disclosure as prescribed by 45 C.F.R. § 164.528.

3. Permitted Uses and Disclosures by Contractor

(a) Except as otherwise limited in this Section or by the Privacy Rule, Contractor may use or disclose protected health information to the extent necessary to permit to carry out its obligations under the Agreement and for its own management and administration.

(b) Contractor may use protected health information to provide data aggregation to the Provider.

(c) Contractor may use protected health information to report violations of law to the appropriate federal and state authorities in a manner consistent with the Privacy Rule.

4. Provider's Obligations

(a) Provider agrees to comply with all applicable provisions of the Privacy Rule. Provider has developed a plan with applicable policies and procedures to insure compliance with the terms of the Privacy Rule.

(b) **Survival**. The respective rights and obligations of Contractor under this Agreement shall survive the termination of the Agreement.

(c) **Interpretation**. Any ambiguity related to any provision of this Agreement shall be resolved to permit the Provider and the Contractor to comply with the Privacy Rule.

8. CONFIDENTIALITY

Due to the nature of the services to be provided hereunder, Contractor may have access to individual's medical or other records. Contractor shall maintain such information in strictest confidence in accordance with applicable law and the individual's right to privacy

9. MISCELLANEOUS

A. **Notice.** Any notice required by this Agreement shall be in writing and deemed given when it is delivered personally or deposited in the U. S. Mail, postage prepaid, certified or registered mail, return receipt requested, address to the respective parties as follows:

PROVIDER:	xxxxxxxxxxxxx c/o Sample Director of xxxxxxxxx Address City, Texas xxxxx
With a copy to:	Director of Pharmacy c/o Paul Delomel Pharmacy Alternatives, LLC 5810 Trade Center Drive, Suite 400 Austin, TX 78744
CONTRACTOR:	Pharmacy Alternatives, LLC 11401 Bluegrass Parkway Louisville, KY 40299 c/o Doug Russell, President Fed Tax ID: 20-3612272

B. **Entire Agreement**. This is the entire agreement between the parties and supersedes all prior agreements between the parties concerning the subject of this Agreement. If any provision of this Agreement is found to be unenforceable for any reason, all remaining provisions of the Agreement shall remain in full force and effect. This Agreement may be amended or supplemented only in writing and signed by both parties. No waiver of any of the provisions of this Agreement will be deemed, or will constitute a waiver of any other provision, whether or not similar, nor will any waiver constitute a continuing waiver. No waiver will be binding unless executed in writing by the party making the waiver.

C. **Assignment.** Contractor may not assign this Agreement without the prior written consent of Provider.

D. **Choice of Law**. This Agreement shall be governed, construed and enforced under the laws of the State of Texas.

E. **Execution of Counterparts**. This Agreement may be executed in multiple counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same document.

F. **Transfer of ownership or control of facility**
Facility covenants that neither ownership nor control of the health care facility will be transferred, during the term hereof, by Facility or any transferee or assignee of Facility having control of the health care facility prior to a proposed transfer ("Controlling Party"), to any party not having accepted and agreed to be bound by the obligations of Facility pursuant hereto; neither ownership nor control of health care facility shall be transferred unless and until the Controlling Party shall have given notice of the existence of this agreement to the proposed transferee and such transferee shall have agreed to accept and comply with this agreement.

10. NOTICE TO ALL PHARMACY ALTERNATIVE, LLC CONTRACTORS AND AGENTS

Pursuant to Section 6032 of the Federal Deficit Reduction Act of 2005 ("DRA"), all contractors and agents of Pharmacy Alternatives, LLC ("Pharmacy Alternatives"), its subsidiaries and affiliated entities, must comply with and abide by Pharmacy Alternative's policies for preventing fraud, waste and abuse.

This law applies to any Contractor or Agent who, on behalf of Pharmacy Alternatives, provides or otherwise authorizes the provision of Medicaid health care services, supplies products used in Medicaid health care service delivery, or monitors Medicaid health care services provided by Pharmacy Alternatives, it subsidiaries and affiliated entities.

By signing this Professional Service Agreement, the signing Contractor or Agent acknowledges receipt of Pharmacy Alternatives Accounting Policy 0-13: Fraud Prevention and Pharmacy Alternatives Accounting Policy C04: Non-Retaliation and Non-Retribution for Reporting Compliance Concerns. The signing Contractor or Agent should disseminate these policies to all employees or sub-contractors involved in Pharmacy Alternatives Business activities.

Any questions related to these requirements for Pharmacy Alternatives Contractors or Agents should be directed to the Pharmacy Alternatives Compliance Department:

Jeff Felty, Senior Director of Compliance	800.866.0860 ext. 2332
Deena Ombres, Chief Compliance Officer	800.866.0860 ext. 2387

IN WITNESS whereof, the duly authorized representatives of the parties hereto have executed this Agreement as of the date first written above.

PROVIDER: **SAMPLE**

By: _____

Name:

Title:

CONTRACTOR: **Pharmacy Alternatives, LLC**

By: _____

Name: Doug Russell RPh, FASCP

Title: President

ADDITIONAL ATTACHMENTS

SAMPLE BLISTER PACK

FILLED BY CK'D BY
RECEIVED BY
START DATE
REORDERED BY
ORDER DATE
MED.
STRENGTH
LOT NO.
EXP. DATE
MFG.
SUREMed
by Omnicell
CAUTION: This package NOT CHILD RESISTANT. Store this and all medications out of reach of children.
MTS Medication Technologies®
www.mts-mt.com
ITEM # 300-25

RETURN GOODS POLICY

RETURNING MEDICATIONS TO THE PHARMACY FOR CREDIT

Policy: Medications that can be returned to the pharmacy for credit are returned in a timely manner, and documentation of the return is maintained for accurate medication reconciliation.

Procedures:

1. Medications can only be returned to the pharmacy when credit can be issued to the consumer and the medication can be re-dispensed. If a consumer's medications cannot be returned to the pharmacy for credit, then they are to be disposed of according to center policy.

2. Only medications in factory-sealed (example: injectables) or pharmacy-sealed (example: punch cards) may be returned to the pharmacy.

3. Medications which are eligible for credit include:

   (a) Medicaid and Medicare-D orders are only eligible during the current month, if billing has not been transmitted to Medicaid or the Medicare-D plan.

   (b) Current month cards in which no doses have been used or punched out (i.e., full cards). (The pharmacy will handle exceptions individually with the center.)

4. Medications that cannot be returned for credit:

   (a) The pharmacy may prudently add or delete items from this exception list. If there is any question as to the status of a new medication to be returned, the pharmacy is to be called. Additions or modifications to the medication list will be filed in section "X. Reference" under "Appendix I: Updates."

   (b) Tablets broken in half for dosage titration cannot be returned to the pharmacy for credit regardless of medication class.

   (c) Liquids must be in factory-sealed containers in order to be credited.

   (d) Creams, ointments and other topical medications must have an intact factory seal in order to be credited.

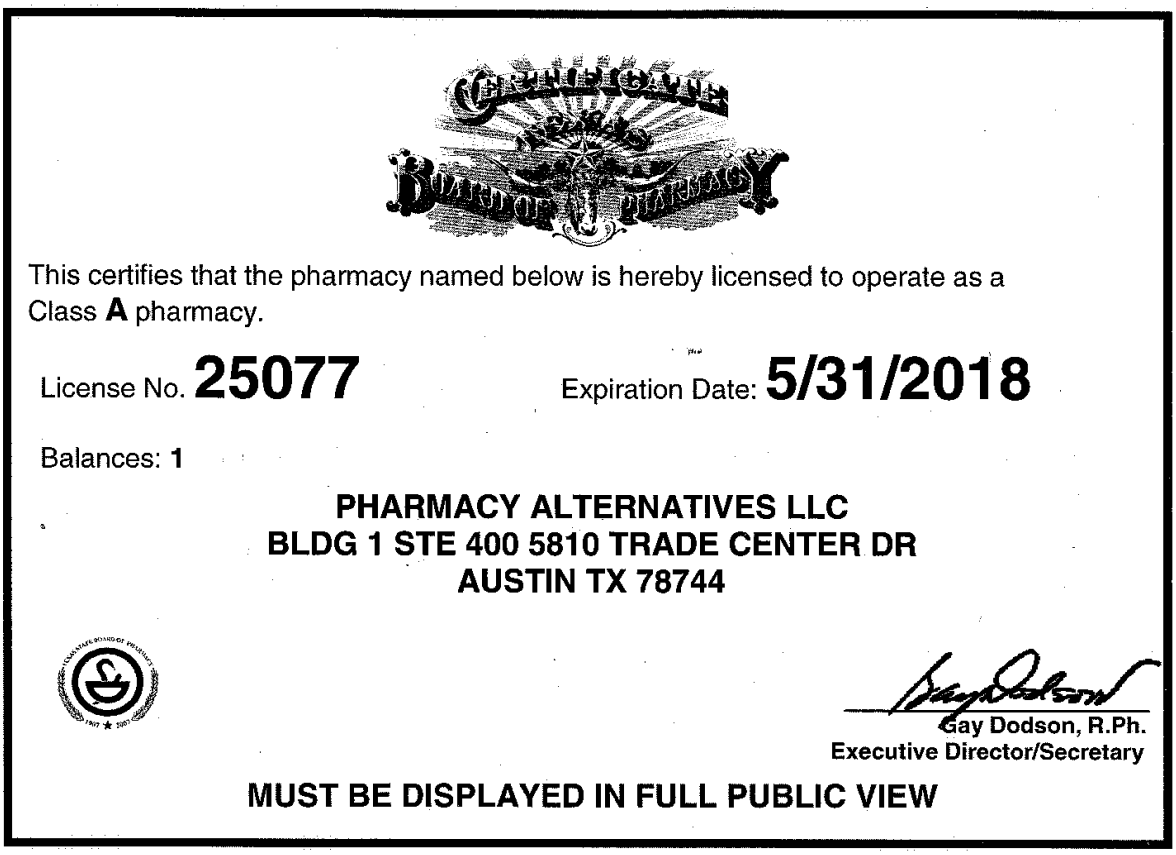
   (e) Controlled medications cannot be returned.

   In the event that the medication in question was:

   - delivered by the pharmacy the day it was discontinued,
   - delivered to an expired or discharged consumer, or
   - not in accordance with the physician's order,

   The medication(s) may be returned to the pharmacy without the above-mentioned limitations.

TEXAS LICENSURE



This certifies that the pharmacy named below is hereby licensed to operate as a Class **A** pharmacy.

License No. **25077** Expiration Date: **5/31/2018**

Balances: **1**

PHARMACY ALTERNATIVES LLC
BLDG 1 STE 400 5810 TRADE CENTER DR
AUSTIN TX 78744

Gay Dodson, R.Ph.
Executive Director/Secretary

MUST BE DISPLAYED IN FULL PUBLIC VIEW

PHARMACY ALTERNATIVES
5810 TRADE CENTER DR.
BLDG 1 STE 400
AUSTIN, TX 78744-0000-000

10011843/001445

DEA REGISTRATION NUMBER	THIS REGISTRATION EXPIRES	FEE PAID
BP9787740	03-31-2018	$731

SCHEDULES	BUSINESS ACTIVITY	ISSUE DATE
2,2N, 3,3N,4,5,	CENTRAL FILL PHARMACY	02-06-2015

PHARMACY ALTERNATIVES
5810 TRADE CENTER DR.
BLDG 1 STE 400
AUSTIN, TX 78744-0000

CONTROLLED SUBSTANCE REGISTRATION CERTIFICATE
UNITED STATES DEPARTMENT OF JUSTICE
DRUG ENFORCEMENT ADMINISTRATION
WASHINGTON D.C. 20537

Sections 304 and 1008 (21 USC 824 and 958) of the Controlled Substances Act of 1970, as amended, provide that the Attorney General may revoke or suspend a registration to manufacture, distribute, dispense, import or export a controlled substance.

THIS CERTIFICATE IS NOT TRANSFERABLE ON CHANGE OF OWNERSHIP, CONTROL, LOCATION, OR BUSINESS ACTIVITY, AND IT IS NOT VALID AFTER THE EXPIRATION DATE.

CONTROLLED SUBSTANCE REGISTRATION CERTIFICATE
UNITED STATES DEPARTMENT OF JUSTICE
DRUG ENFORCEMENT ADMINISTRATION
WASHINGTON D.C. 20537

DEA REGISTRATION NUMBER	THIS REGISTRATION EXPIRES	FEE PAID
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PHARMACY ALTERNATIVES
5810 TRADE CENTER DR.
BLDG 1 STE 400
AUSTIN, TX 78744-0000

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Form DEA-223 (4/07)

TMHP TEXAS MEDICAID & HEALTHCARE PARTNERSHIP
A STATE MEDICAID CONTRACTOR

PO Box 200795
Austin, TX 78720-0795
Fax: 1-512-514-4214

July 25, 2016

Pharmacy Alternatives, LLC
5810 Trade Center Dr Bldg 1 # 400
Austin TX 78744

Re: New Enrollment Information

Dear Pharmacy Alternatives, Llc,

This letter is to notify you of your new provider enrollment information. Please make note of and verify your provider information and advise the Texas Medicaid & Healthcare Partnership (TMHP) if any changes are needed. Your new enrollment information is below:

Name:	Pharmacy Alternatives, Llc
Texas Provider Identifier (TPI) Base:	3584781
TPI Suffix:	01
NPI/API:	1508877150
Primary Taxonomy:	333600000X
Secondary Taxonomy(s):	
Benefit Code:	CCP
Enrollment Date:	7/22/2016
Effective Date:	1/19/2015
Program:	Traditional Medicaid, Medicaid Managed Care
Provider Type:	Medical supplier (durable medical equipment [DME]); licensed clinical social worker (LCSW)

A benefit code may be issued by TMHP to identify state programs and provider types. It is important to remember your benefit code when one has been assigned. It will be required for claims filing, requesting prior authorization, and other electronic transactions with TMHP. A benefit code may also be used to crosswalk a National Provider Identifier (NPI) or an Atypical Provider Identifier (API) to the appropriate TPI for specific state programs and provider types such as those listed in the table below.

ASSUMED NAME CERTIFICATE

Pharmacy Alternatives, LLC does not operate under an assumed name.

CANCELLED OR TERMINATED CONTRACTS

Pharmacy Alternatives, LLC Texas operations have only had two customers leave our services in the last five years. In both cases, the customer started their own in-house pharmacy. The requested contact information can be found below:

Premiant San Antonio
Kathy Griffith, Executive Director
kathygriffith3@gmail.com
210-417-6764

St. Giles Living Centers
Diedra Wetzel, RN
dwetzel@sglctx.com
281-420-8040 ext. 1102

TEXAS ETHICS COMMISSION FORM 1295

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING
Certificate Number: 2017-260697
Date Filed: 09/14/2017
Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.
Pharmacy Alternatives, LLC
Austin, TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.
Williamson County Jail

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.
1708-185
Pharmaceutical services and supplies

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary
Michael, Varnado (Board - 0% Ownership)	Louisville, KY United States	X	
Douglas, Russell (Board - 0% Ownership)	Louisville, KY United States	X	
Community Alternatives Pharmacy, Inc.	Louisville, KY United States	X	

5 Check only if there is NO Interested Party. ☐

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

Signature of authorized agent of contracting business entity

HEATHER WILSON NOTARY PUBLIC ID NO. 538800 MY COMMISSION EXPIRES 7/29/2019 STATE AT LARGE, KY

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said Doug Russell, this the 15th day of September, 20 17, to certify which, witness my hand and seal of office.

Heather Wilson — Signature of officer administering oath
Heather Wilson — Printed name of officer administering oath
Contracting Asst. — Title of officer administering oath

Forms provided by Texas Ethics Commission www.ethics.state.tx.us Version V1.0.3337

Supplier: **Pharmacy Alternatives, LLC**

Williamson County – Request for Proposal (RFP)

SECTION 1 - DEFINITIONS

Addendum/Addenda – means any written or graphic instruments issued by the County prior to the consideration of Proposals which modify or interpret the Proposal Documents by additions, deletions, clarifications, or corrections.

Agreement/Ensuing Agreement(s) – means the Successful Respondent may be required by the County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and the Respondent's Proposal. Such Ensuing Agreement(s) shall contain the Proposal specifications, terms and conditions that are derived from the RFP.

Contract – means this RFP and the Proposal of the Successful Respondent shall become a Contract between the Successful Respondent and the County once the Successful Respondent's Proposal is properly accepted by the Williamson County Commissioners Court (sometimes referred to herein as the Commissioner's Court").

Commissioner's Court – means the Williamson County Commissioners Court.

County – means Williamson County, a political subdivision of the State of Texas.

Executive Summary – means the document submitted by Respondent that represents a concise summary of the contents of the Proposal. It does not include any information concerning costs.

Proposal Documents – means the Legal Notice, RFP including attachments, and any Addenda issued by the County prior to the consideration of any Proposals.

Proposal – means the complete, properly signed document, and ALL required forms and documentation listed in the proposal package which have been submitted in accordance with this RFP package. A Proposal submitted in accordance with this RFP is irrevocable during the specified time period for evaluation and acceptance of Proposals, unless a waiver is obtained from the Williamson County Purchasing Agent.

Respondent – means a person or entity who submits a Proposal in response to this RFP.

Request for Proposals (RFP) – means this document, together with the attachments thereto and any future Addenda issued by the County.

Successful Respondent– means the responsible Respondent who, in the County's sole opinion, submits the Proposal which is in the best interest of the County, taking into account factors identified

herein, and to whom the County intends to award the Contract.

SECTION 2 - RESPONSE FORMAT AND SUBMISSION

2.1 INTRODUCTION

Each Proposal submitted in response to this RFP should clearly reference the numbered sections of this RFP that require a response. Failure to arrange the Proposal as requested may result in the disqualification of the Proposal.

Though there is not a page limit for Proposals, to save natural resources including paper, and to allow the County staff to efficiently evaluate all submitted Proposals, the County requests that Proposals be orderly, concise, but comprehensive in providing the requested information. Conciseness and clarity of content are emphasized and encouraged. If mailed or delivered in person, please limit additional, non requested information.

Please provide your Proposal response using:

A. 8 ½" x 11" pages, inclusive of any cover letter or supporting materials.

B. The least amount of plastic/laminate or other non-recyclable binding materials.

C. Single-sided printing.

Vague and general Proposals will be considered non-responsive, and may, at the County's sole discretion, result in disqualification. Proposals must be legible and complete. Failure to provide the required information may result in the disqualification of the Proposal. All pages of the Proposal should be numbered and the Proposal should contain an organized, paginated table of contents corresponding to the sections and pages of the Proposal.

2.2 ORGANIZATION OF PROPOSAL CONTENTS AND TABLE OF CONTENTS

Each Proposal should be submitted with a table of contents that clearly identifies and denotes the location of all enclosures of the Proposal. The table of contents should follow the RFP's structure as much as is practical.

Each Proposal should be organized in the manner described below:

A. Transmittal Letter. Please see Section 2.3, Transmittal Letter, for more information.

B. Table of Contents.

C. Executive Summary. Please see Section 2.4, Executive Summary.

D. Proposal Response to Criteria. (Please see the sections in this RFP package that list the Specifications & Cost Proposal, Experience and Qualifications, References, and Implementation Strategy to respond to our criteria in a clear and concise manner)

E. Price Sheet.

F. References: Identification of three (3) references within the last four (4) years, for which the Respondent is providing, or has provided, the goods and/or services (public sector) of the type requested in this RFP. Include the name, position/title, and telephone number of a contact person at each entity.

G. Conflict of Interest Questionnaire.

H. Proposal Affidavit (Signature Page).

I. Attach your entities sample Contract, if applicable, for the County's review and consideration. This should include any additional terms or conditions. The County is not required to use the sample Contract submitted.

2.3 TRANSMITTAL LETTER

The Respondent should submit a Transmittal Letter that provides the following information:

A. Name and address of individual or business entity submitting the Proposal.

B. Respondent's type of business entity (i.e., Corporation, General Partnership, Limited Partnership, LLC, etc.). See Section 3.5, Signature of Respondent, for more information.

C. Place of incorporation or organization, if applicable.

D. Name and location of major offices and other facilities that relate to the Respondent performance under the terms of this RFP.

E. Name, physical address, email address, business and fax number of the Respondent's principal contact person regarding all contractual matters relating to this RFP.

F. The Respondent's Federal Employer Identification Number.

G. A commitment by the Respondent to provide the services required by the County;

H. A statement that the Proposal is valid for the time specified on page three (3), under the section named *Prices Good for*, of this Proposal packet. Any Proposal containing a term of less than t required amount, may at the County's sole discretion, be rejected as non-responsive.

I. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.40, Air Quality for more information.

The Transmittal Letter should be signed by a person legally authorized to bind the Respondent to t representations in the Transmittal Letter and the Proposal. In the case of a joint Proposal, each party must sign the Transmittal Letter.

2.4 EXECUTIVE SUMMARY

The Respondent should provide an Executive Summary of its Proposal that asserts that the Respondent is providing in its response all of the requirements of this RFP. The Executive Summary should not include any information concerning the cost of the Proposal, but instead must represent a full and concise summary of the contents of the Proposal. It is recommended the Executive Summary include the following information:

A. Identify any goods and/or services that are provided beyond those specifically requested. If the Respondent is providing services and/or goods that do not meet the specific requirements of this RFP, but in the opinion of the Respondent are equivalent or superior to those specifically requested, any such differences should be noted in the Executive Summary. However, the Respondent must realize that failure to provide the goods and/or services specifically required, at the County's sole discretion, may result in disqualification of the Proposal.

B. Indicate why the Respondent believes that it is the most qualified Respondent to provide the services described in this RFP. The Successful Respondent must demonstrate extensive experience and understanding of the intent of this project. The Respondent should describe in detail the current and historical experience the Respondent and its subcontractors have that would be relevant to completing the project. References must contain the name of key personnel and telephone numbers for each contact, as described in Section 3.14, References.

C. Briefly state why the Respondent believes its proposed goods and/or services best meet the County's needs and RFP requirements, and the Respondent also should concisely describe any additional features, aspects, or advantages of its goods and/or services in any relevant area not covered elsewhere in its Proposal.

2.5 CONFLICT OF INTEREST

No public official shall have interest in a contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code, Title 5, Subtitle C, Chapter 171, as amended.

As of January 1, 2006, all Respondents are responsible for complying with Local Government Code, Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County's website at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en-US/Default.aspx

Each Respondent must disclose any existing or potential conflict of interest relative to the performance of the requirements of this RFP. **Examples of potential conflicts of interest may include an existing business or personal relationship between the Respondent, its principal, or any affiliate or subcontractor with the County or any other entity or person involved in any way with the project that is subject to this RFP**. Similarly, any personal or business relationship between the Respondent, the principals, or any affiliate or subcontractor with any employee, or official of the County or its suppliers must be disclosed. Any such relationship that might be perceived or represented as a conflict must be disclosed. Failure to disclose any such relationship or reveal personal relationships with the County employees or officials may be cause for termination.

The County will decide if an actual or perceived conflict should result in Proposal disqualification.

By submitting a Proposal in response to this RFP, all Respondents affirm they have not given, nor intend to give, at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a the County public servant or any employee, official or representative of same, in connection with this procurement.

Each Respondent must provide a Conflict of Interest Statement with their Proposal Package. Package may be deemed incomplete without this form.

2.6 CERTIFICATE OF INTERESTED PARTIES – FORM 1295

As of January 1, 2016, all Respondents are responsible for complying with the Texas Government Code, Section 2252.908. The law states that the County may not enter into certain contracts with a Respondent unless the Respondent submits a disclosure of interested parties to the County at the time the Respondent submits the signed contract. The law applies only to a contract of the County on or after January 1, 2016 that either:

A. Requires an action or vote by the Commissioners Court before the contract may be signed (all contracts that fall under the jurisdiction of the Commissioners Court approval, such as contracts resulting from an Initiation for Bid (IFB), RFP, Request for Qualifications (RFQ), etc., excluding,

but not limited to, certain Juvenile Service contracts, contracts funded with Sheriff's seized fun monies, etc.); or

B. Has a value of at least $1,000,000.

By January 1, 2016, the Texas Ethics Commission will make available on its website, a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

A Respondent must:

A. Use the online application to process the required information on Form 1295.

B. Print a copy of the form which will contain a unique certification number.

C. An authorized agent of the Respondent must sign the printed copy of the form.

D. Have the form notarized.

E. File the completed Form 1295 and certification of filing (scanning and emailing form is sufficient) with Williamson County Purchasing Agent at the time the signed Contract is submitted for approval.

After the Commissioners Court award of the contract, the County shall notify the Texas Ethics Commission, using the Texas Ethics Commission's filing application, of the receipt of the filed Form 1295 and certification of filing not later than the 30th day after the date the contract binds all parties to the contract. The Texas Ethics Commission will post the completed Form 1295 to its website within seven business days after receiving notice from the County.

2.7 PROPOSAL SUBMITTAL DEADLINE

The Proposal is due no later than the submittal date and time set forth in the Public Announcement and General Information listed in this RFP package. Contents of each Proposal shall be submitted in accordance with this RFP.

2.8 ETHICS

The Respondent shall not accept or offer gifts or anything of value, nor enter into any business arrangement with any employee, official or agent of the County.

2.9 DELIVERY OF PROPOSALS

The County uses BidSync to distribute and receive bids and Proposals. It is preferred that Proposals be submitted electronically through BidSync; however, Respondents can submit a hard copy.

Refer to www.bidsync.com for further information on how to submit electronically.

If mailed or delivered in person, Proposal and Proposal Addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed in this RFP package, to:

Williamson County Purchasing Department

Attn: **Proposal Name and Number**
901 South Austin Avenue
Georgetown, Texas 78626

Also, all Respondents should list their Name and Address, and the Date of the Proposal opening on the outside of the box or envelope and note "Sealed Proposal Enclosed." Williamson County will not accept any Proposals after the submittal deadline, and shall return such Proposals unopened to the Respondent. The County will not accept any responsibility for Proposals being delivered by third party carriers.

Proposals will be opened publicly; however, in a manner to avoid public disclosure of contents, only names of Respondents will be read aloud: no pricing will be announced at the opening.

SECTION 3 - INSTRUCTIONS AND GENERAL REQUIREMENTS

3.1 INSTRUCTIONS

Read this document carefully, and follow all instructions and requirements. All Respondents are responsible for fulfilling all requirements and specifications. Be sure to have a clear understanding of this RFP.

General requirements apply to all advertised RFPs; however, these may be superseded, in whole or in part, by the proposal specifications, Addenda and modifications issued as a part of this RFP. Be sure your Proposal package is complete.

3.2 AMBIGUITY, CONFLICT, OR OTHER ERRORS IN THIS RFP

If a Respondent discovers any ambiguity, conflict, discrepancy, omission or other error in this RFP, the Respondent shall immediately notify the County Purchasing Department of such error in writing and request modification or clarification of the document.

Modifications will be made by issuing Addenda. If the Respondent fails to notify the County prior to the date and time fixed for submission of Proposals of an error or ambiguity in the RFP known to the Respondent, or an error or ambiguity that reasonably should have been known to the Respondent, then the Respondent shall be deemed to have waived the error or ambiguity or its later resolution.

The County may also modify the RFP, no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals, by issuance of an Addendum. All Addenda will be numbered consecutively, beginning with one (1).

3.3 NOTIFICATION OF MOST CURRENT ADDRESS

All Respondents in receipt of this RFP shall notify the Williamson County Purchasing Department of any address changes, contact person changes, and/or telephone number changes no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals.

3.4 SIGNATURE OF RESPONDENT

A Transmittal Letter, which shall be considered an integral part of the Proposal as stated in Section 2.3, Transmittal Letter, shall be signed by an individual who is authorized to bind the Respondent contractually.

A. If the Respondent is a Corporation or Limited Liability Company, the legal name of the Corporation or Limited Liability Company shall be provided together with the signature of the officer or officers authorized to sign on behalf of such entity.

B. If the Respondent is a General Partnership, the true name of the firm shall be provided with the signature of each partner authorized to sign.

C. If the Respondent is a Limited Partnership, the name of the Limited Partner's General Partner shall be provided with the signature of the officer authorized to sign on behalf of the General Partner.

D. If the Respondent is a Sole Proprietor(s) (individual), each Sole Proprietor(s) shall sign.

E. If signature is by an agent, other than the Sole Proprietor(s) or an officer of a Corporation, Limited

Liability Company, General Partner or a member of a General Partnership, a power of attorney equivalent document must be submitted to the Williamson County Purchasing Department.

3.5 ASSUMED BUSINESS NAME

If the Respondent operates business under an Assumed Business Name, the Respondent must have file with the Williamson County Clerk a current Assumed Name Certificate and provide a file marked copy of same prior to contract award.

3.6 ECONOMY OF PRESENTATION

Proposals should not contain promotional or display materials, except as they may directly answer in whole or in part questions contained in the RFP. Such exhibits shall be clearly marked with the applicable reference number of the question in the RFP. Proposals must address the technical requirements as specified in the RFP. All questions posed by the RFP must be answered concisely and clearly. Proposals that do not address each criterion may be, at the sole discretion of the County, rejected and not considered.

3.7 PROPOSAL OBLIGATION

The contents of the RFP, Proposal, and any clarification thereof submitted by the Successful Respondent shall become part of the contractual obligation and incorporated by reference into the Contract and any Ensuing Agreement(s).

3.8 COMPLIANCE WITH RFP SPECIFICATIONS

It is intended that this RFP describe the requirements and the Proposal format in sufficient detail to secure comparable Proposal. Failure to comply with all provisions of the RFP may, at the sole discretion of the County, result in disqualification.

3.9 EVALUATION

The County reserves the right to use all pertinent information (also learned from sources other than disclosed in the RFP process) that might affect the County's judgment as to the appropriateness of award to the best evaluated Respondent. This information may be appended to the Proposal evaluation process results. Information on a Respondent from reliable sources, and not within the Respondent Proposal, may also be noted and made part of the evaluation file. The County shall have sole discretion for determining the reliability of the source. The County reserves the right to conduct written and/or oral discussions/interviews after the Proposal opening. The purpose of such discussions/interviews is to provide clarification and/or additional information to make an award that is in the best interest of the County.

3.10 WITHDRAWAL OF PROPOSAL

The Respondent may withdraw its Proposal by submitting a written request with the company letterhead and the signature of an authorized individual, as described in Section 3.4, Signature of Respondent, to the Williamson County Purchasing Department any time prior to the submission deadline.

The Respondent may submit a new Proposal prior to the deadline. Alterations of the Proposal in any manner will not be considered if submitted after the deadline. Withdrawal of a Proposal after the deadline will be subject to written approval of the Williamson County Purchasing Agent.

3.11 RESPONSIBILITY

It is expected that a Respondent will be able to affirmatively demonstrate responsibility. A prospective Respondent should be able to meet the following requirements:

A. Have adequate financial resources, or the ability to obtain such resources as required;
B. Be able to comply with the required or proposed delivery schedule;
C. Have a satisfactory record of performance that can be determined thru references provided; and
D. Be otherwise qualified and eligible to receive an award.

The County may request representation and other information sufficient to determine the Respondent ability to meet these minimum standards listed above.

3.12 PURCHASE ORDERS

If required by the Williamson County Purchasing Department, a purchase order(s) may be generated to the Successful Respondent for goods and/or services. If a purchase order is issued, the purchase order number must appear on all itemized invoices and/or requests for payment.

3.13 SILENCE OF SPECIFICATIONS

The apparent silence of any RFP specifications as to any detail or to the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

3.14 REFERENCES

Respondents shall furnish a list of contracts where similar responsibilities and goods and/or services have been required and/or performed for the past five (5) years, to include names, titles, phone numbers and email addresses of reference contacts, contract numbers and dates of performance.

Also, Respondents shall include a list of any contracts that have been cancelled or terminated within the last five (5) years, along with an explanation of the cancellation and the names, email address and phone number of a reference person with that institution.

The County may contact some or all of the references in order to determine the Respondent performance record on work similar to that described in this RFP. The County reserves the right to contact references other than those provided in the response and to use the information gained from them in the evaluation process.

References should be provided in accordance with this RFP. Proposal may not be deemed complete without the inclusion of requested references.

SECTION 4 - TERMS AND CONDITIONS

4.1 VENUE AND GOVERNING LAW

The Respondent hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this RFP, the Contract and any Ensuing Agreement(s), shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this RFP, the Contract and any Ensuing Agreement(s) is governed by the laws of the United States, this RFP, the Contract and any Ensuing Agreement(s) shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

4.2 INCORPORATION BY REFERENCE AND PRECEDENCE

A. The Contract shall be derived from the RFP and its Addenda (if applicable), and the Respondent Proposal. In the event of a dispute under the Contract, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The RFP and its Addenda (if applicable); and

   2. The Respondent's Proposal.

B. In the event the County requires that an Ensuing Agreement be executed following award and a dispute arises between the terms and conditions of the Ensuing Agreement, the RFP and its Addenda (if applicable), and the Respondent's Proposal, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The terms and conditions of the Ensuing Agreement;

   2. The RFP and its Addenda; and

   3. The Respondent's Proposal.

4.3 OWNERSHIP OF PROPOSAL

Each Proposal shall become the property of the County upon submittal and will not be returned to Respondents unless received after the submittal deadline.

4.4 DISQUALIFICATION OF RESPONDENT

Upon signing and submittal of the Proposal, a Respondent offering to sell supplies, materials, services, or equipment to the County, certifies that the Respondent has not violated the antitrust laws of the State of Texas codified in Business & Commerce Code, Section 15.01, or the Federal Antitrust Laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged such line of business. Any or all Proposals may be rejected if the County believes that collusion exists among the Respondents.

4.5 FUNDING

The County intends to budget and make sufficient funds available and authorize funds for expenditure to finance the costs of the Contract. All Respondents understand and agree that the County's payment of

amounts under the Contract shall be contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to make payments under this Contract.

4.6 ASSIGNMENT, SUCCESSORS AND ASSIGNS

The Successful Respondent may not assign, sell, or otherwise transfer the Contract or any other rights or interests obtained under the Contract without written permission of the Williamson County the Commissioners Court. The Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the contracting parties hereto and their respective successors and permitted assigns.

4.7 IMPLIED REQUIREMENTS

Products or services not specifically described or required in the RFP, but are necessary to provide the functional capabilities described by the Respondent, shall be implied and deemed to be included in the Proposal.

4.8 TERMINATION

A. **Termination for Cause:** The County reserves the right to terminate the Contract and/or any Ensuing Agreement(s) for default if the Successful Respondent breaches any of the Proposal specifications, terms and conditions, including warranties of the Respondent, if any, or if the Successful Respondent becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies the County may have at law or equity or as may otherwise be provided hereunder. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all other requirements to the County's satisfaction, and/or to meet all other obligations and requirements.

B. **Termination for Convenience:** The County may terminate the Contract and/or any Ensuing Agreement(s) for convenience and without cause or further liability, upon no less than thirty (30) calendar days written notice to the Successful Respondent. The County reserves the right to extend this period if it is in the best interest of the County. In the event the County exercises its right to terminate without cause, it is understood and agreed that only the amounts due to the Successful Respondent for goods, commodities and/or services provided and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for the County's termination for convenience.

4.9 NON-PERFORMANCE

It is the objective of the County to obtain complete and satisfactory performance of the requirements set forth herein. In addition to any other remedies available at law, in equity or that may be set out herein, failure to perform may result in a deduction of payment equal to the amount of the goods and/or services that were not provided and/or performed to the County's satisfaction.

In the event of such non-performance, the County shall have the right, but shall not be obligated, to complete the services itself or by others and/or purchase the goods from other sources. If the County elects to acquire the goods or perform the services itself or by others, pursuant to the foregoing, the Successful Respondent shall reimburse the County, within ten (10) calendar days of demand, for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting the nonperformance which the Successful Respondent fails to meet pursuant to the requirements set out herein. In the event the Successful Respondent refuses to reimburse the County as set out in this provision, the County shall have the right to deduct such reimbursement amounts from any amounts that may be then owing or that may become owing in the future to the Successful Respondent.

4.10 PROPRIETARY INFORMATION AND THE TEXAS PUBLIC INFORMATION ACT

All material submitted to the County shall become public property and subject to the Texas Public Information Act upon receipt. If a Respondent does not desire proprietary information in the Proposal to be disclosed, each page must be clearly identified and marked proprietary at time of submittal or, more preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary. Failure to clearly identify and mark information as being proprietary as set forth under this provision will result in all unmarked information being deemed non-proprietary and available to the public. For all information that has not been clearly identified and marked as proprietary by the Respondent, the County may choose to place such information on the County's website and/or a similar public database without obtaining any type of prior consent from the Respondent.

The County will, to the extent allowed by law, endeavor to protect from public disclosure the information that has been identified and marked as proprietary. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General.

To the extent, if any, that any provision in this RFP or in the Respondent's Proposal is in conflict with Texas Government Code, Chapter 552, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood, and agreed, that the County, and its officers and employees, may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to the County as to whether or not the same are available to the public. It is further understood that that the County, and its officers and employees, shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that the County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to the County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

4.11 RIGHT TO AUDIT

The Successful Respondent agrees that the County or its duly authorized representatives shall, until the expiration of three (3) years after termination or expiration of the services to be performed, have access to and the right to examine and photocopy any and all books, documents, papers and records of the Successful Respondent, which are directly pertinent to the services to be performed or goods to delivered for the purposes of making audits, examinations, excerpts and transcriptions. The Successful Respondent agrees that the County shall have access during normal working hours to all necessary facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give the Successful Respondent reasonable advance notice of intended audits.

4.12 TESTING AND INSPECTIONS

The County reserves the right to inspect and test equipment, supplies, materials and goods for quality and compliance with this RFP, and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the County can deem the Respondent to be in breach and terminate the Contract and/or any Ensuing Agreement(s).

4.13 PROPOSAL PREPARATION COSTS

The cost of developing Proposals is the sole responsibility of the Respondents and shall not be charged to the County. There is no expressed or implied obligation for the County to reimburse the Respondents for any expense incurred in preparing a Proposal in response to this RFP and the County will not reimburse the Respondents for such expenses.

4.14 INDEMNIFICATION

The Successful Respondent shall indemnify, defend and save harmless, the County, its officials, employees, agents and agent's employees from, and against, all claims, liability, and expenses including reasonable attorneys' fees, arising from activities of the Respondent, its agents, servants or employees, performed hereunder that result from the negligent act, error, or omission of the Respondent or any of the Respondent's agents, servants or employees, as well as all claims of loss or damage to the Respondent's and the County's property, equipment, and/or supplies.

Furthermore, the County, its officials, employees, agents and agents' employees shall not be liable for damages to the Successful Respondent arising from any act of any third party, including, but not limited to, theft. The Successful Respondent further agrees to indemnify, defend and save harmless, the County from its officials, employee, agents and agents' employees against all claims of whatever nature arising from any accident, injury, or damage whatsoever, caused to any person, or the property of any person, occurring in relation to the Successful Respondent's performance of any services requested hereunder during the term of the Contract and/or any Ensuing Agreement(s).

The Successful Respondent shall timely report all claims, demands, suits, actions, proceedings, liens or judgements to the County and shall, upon the receipt of any claim, demand, suit, action, proceeding, lien or judgement, not later than the fifteenth (15th) day of each month; provide the County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of the County required by the Successful Respondent in the defense of each matter. The Successful Respondent's duty to defend, indemnify and hold the County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of the Contract and/or any Ensuing Agreement(s), unless otherwise agreed by the County in writing. The provisions of this section shall survive the termination of the Contract and shall remain in full force and effect with respect to all such matters no matter when they arise.

In the event of any dispute between the parties, as to whether a claim, demand, suit, action, proceeding, lien or judgement, that appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of the County, the Respondent shall nevertheless fully defend such claim, demand, suit or action, proceeding, lien or judgement, until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of the Respondent are not an issue in the matter.

The Successful Respondent's indemnification shall cover, and the Successful Respondent agrees to, indemnify the County, in the event the County is found to have been negligent for having selected the Successful Respondent to perform the work described in this request. The provision by the Successful Respondent of insurance shall not limit the liability of the Successful Respondent under the Contract and/or any Ensuing Agreement(s).

4.15 WAIVER OF SUBROGATION

The Successful Respondent and the Successful Respondent's insurance carrier waive any and all rights whatsoever with regard to subrogation against the County as an indirect party to any suit arising out of personal or property damages resulting from the Respondent's performance under this Contract and any Ensuing Agreement(s).

4.16 RELATIONSHIP OF THE PARTIES

The Successful Respondent shall be an independent contractor and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions herein which may appear to give the County the right to direct the Successful Respondent as to details of doing work herein covered, or to exercise a measure of control over the work, shall be deemed to mean that the Successful Respondent shall follow the desires of the County in the results of the work only. The County shall not retain or have the right to control the Successful Respondent's means, methods or

details pertaining to the Successful Respondent's performance of the work. The County and the Successful Respondent hereby agree and declare that the Successful Respondent is an independent contractor and as such meets the qualifications of an "Independent Contractor" under Texas Workers Compensation Act, Texas Labor Code, Section 406.141, that the Successful Respondent is not an employee of the County, and that the Successful Respondent and its employees, agents and subcontractors shall not be entitled to workers compensation coverage or any other type of insurance coverage held by the County.

4.17 SOLE PROVIDER

The Successful Respondent agrees and acknowledges that it shall not be considered a sole provider of the goods and/or services described herein and that the County may contract with other providers of such goods and/or services if the County deems, at its sole discretion, that multiple providers of the same goods and/or services will serve the best interest of the County.

4.18 FORCE MAJEURE

If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

4.19 SEVERABILITY

If any provision of this RFP, the Contract or any Ensuing Agreement(s) shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision thereof, but rather the entire RFP, Contract or any Ensuing Agreement (s) will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this RFP, the Contract or any Ensuing Agreement(s) is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this RFP, the Contract or any Ensuing Agreement(s) and be deemed to be validated and enforceable.

4.20 EQUAL OPPORTUNITY

Neither party shall discriminate against any employee or applicant for employment because of race, color, sex, religion or national origin.

4.21 NOTICE

Any notice to be given shall be in writing and may be distributed by personal delivery, or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

The County: Williamson County Purchasing Department
Attn: Purchasing Agent
901 South Austin Avenue
Georgetown, Texas 78626

The Respondent: Address set out in Respondent's Transmittal Letter

Notices given in accordance with this provision shall be effective upon (1) receipt by the party to which notice is given, or (2) on the third (3rd) calendar day following mailing, whichever occurs first.

4.22 SALES AND USE TAX EXEMPTION

The County is a body, corporate and politic, under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code, Section 151.309, as amended, and the services and/or goods subject hereof are being secured for use by the County.

4.23 COMPLIANCE WITH LAWS

The County and the Successful Respondent shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any Ensuing Agreement(s), including, without limitation, Workers' Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the Successful Respondent shall furnish the County with certification of compliance with said laws, statues, ordinances, rules, regulations, orders, and decrees above specified.

4.24 INCORPORATION OF EXHIBITS, APPENDICES AND ATTACHMENTS

All of the Exhibits, Appendices and Attachments referred to herein are incorporated by reference as if set forth verbatim herein. Any conflicting terms in the Contract documents will be resolved at the sole discretion of the Commissioners Court.

4.25 NO WAIVER OF IMMUNITIES

Nothing herein shall be deemed to waive, modify or amend any legal defense available at law or in equity to the County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. The County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

4.26 NO WAIVER

The failure or delay of any party to enforce at any time or any period of time any of the provisions of this RFP, the Contract or any Ensuing Agreement(s) shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

4.27 CURRENT REVENUES

The obligations of the parties under the Contract and any Ensuing Agreement(s) do not constitute a general obligation or indebtedness of the County for which the County is obligated to levy, pledge, or collect any of taxation. It is understood and agreed that the County shall have the right to terminate the Contract and any Ensuing Agreement(s) at the end of any the County fiscal year if the governing body of the County does not appropriate sufficient funds as determined by the County's budget for the fiscal year in question. The County may effect such termination by giving written notice of termination to t Successful Respondent at the end of its then-current fiscal year.

4.28 BINDING EFFECT

This Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the parties and their respective permitted assigns and successors.

4.29 ASSIGNMENT

The Successful Respondent's interest and duties hereunder may not be assigned or delegated to a third party without the express written consent of the County.

4.30 SAFETY

The Successful Respondent is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with any services to be provided hereunder. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

4.31 GENERAL OBLIGATIONS AND RELIANCE

The Successful Respondent shall perform all services and/or provide all goods, as well as those reasonably inferable and necessary for completion and provision of services and/or goods required hereunder. The Successful Respondent shall keep the County informed of the progress and quality the services. The Successful Respondent agrees and acknowledges that the County is relying on the Successful Respondent's represented expertise and ability to provide the goods and/or services described herein. The Successful Respondent agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of the County in accordance with the County's requirements and procedures. The Successful Respondent's duties, as set forth herein, shall at no time be in any way diminished by reason of any approval by the County, nor shall the Successful Respondent be released from any liability reason of such approval by the County, it being understood that the County at all times is ultimately relying upon the Successful Respondent's skill and knowledge in performing the services and providing any goods required hereunder.

4.32 CONTRACTUAL DEVELOPMENT

The Commissioners Court may award the Contract on the basis of the initial Proposals received, without any further or additional discussions. Therefore, each initial Proposal should contain the Respondent best terms and offer. The contents of the RFP and the selected Proposal will become an integral part of the Contract, but may be modified, at Williamson County's sole discretion, by provisions of an Ensuing Agreement. Therefore, the Respondent must agree to inclusion in an Ensuing Agreement of t Proposal specifications, terms and conditions of this RFP. Williamson County may, at its discretion, opt to conduct further discussions with responsible offerors and request the highest ranked firm's Best and Final Offer (BAFO).

4.33 ENTIRE AGREEMENT

The Contract and any Ensuing Agreement(s) shall supersede all prior Agreements, written or oral between the Successful Respondent and the County and shall constitute the entire Agreement and understanding between the parties with respect to the services and/or goods to be provided. Each of the provisions herein shall be binding upon the parties and may not be waived, modified, amended or altered, except by writing signed by the Successful Respondent and the County.

4.34 SURVIVABILITY

All applicable agreements that were entered into between the Successful Respondent and the County, under the terms and conditions of the Contract and/or any Ensuing Agreement(s), shall survive the expiration or termination thereof for ninety (90) days unless a new contract has been awarded.

The County may exercise, by written notice to the Successful Respondent no later than ten (10) calendar days of the Contract expiration, this clause for emergency cases only.

4.35 PAYMENT

The County's payment for goods and services shall be governed by the Texas Government Code, Chapter 2251. An invoice shall be deemed overdue the thirty-first (31st) day after the later of the following:

A. The date the County receives the goods under the Contract;
B. The date the performance of the service under the Contract is completed; or
C. The date the Williamson County Auditor receives an invoice for the goods or services.

Interest charges for any overdue payments shall be paid by the County in accordance with Texas Government Code, Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of the County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one (1) percent and the prime rate published in the Wall Street Journal on the first (1st) day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by the Successful Respondent, the County shall notify the Successful Respondent of the error not later than the twenty-first (21st) day after the date the County receives the invoice. If the error is resolved in favor of the Successful Respondent, the Successful Respondent shall be entitled to receive interest on the unpaid balance of the invoice submitted by the Successful Respondent beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, the Successful Respondent shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by the Texas Government Code, Chapter 2251, if the corrected invoice is not paid by the appropriate date.

As a minimum, invoices shall include:

A. Name, address, and telephone number of the Successful Respondent and similar information in the event the payment is to be made to a different address.

B. The County Contract, Purchase Order.

C. Identification of items or service as outlined in the Contract.

D. Quantity or quantities, applicable unit prices, total prices and total amount.

E. Any additional payment information which may be called for by the Contract.

Payment inquiries should be directed to the following address:

Williamson County Auditor's Office, Accounts Payable Department
Email: accountspayable@wilco.org
Phone: 512-943-1500

4.36 CONTRACTUAL FORMATION AND ENSUING AGREEMENT

The RFP and the Respondent's Proposal, when properly accepted by the Commissioners Court, shall constitute a Contract equally binding between the Successful Respondent and the County. The Successful Respondent may be required by Williamson County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and Respondent's Proposal.

4.37 LEGAL LIABILITY INFORMATION

The Successful Respondent shall disclose all legal liability information by listing any pending litigation anticipated litigation that your firm is involved in including, but not limited to, potential or actual legal matters with private parties and any local, state, federal or international governmental entities. The County reserves the right to consider legal liability information in the recommendation of any proposed contract to the Commissioners Court.

4.38 CONFIDENTIALITY

Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

4.39 INCLEMENT WEATHER

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a Proposal submission deadline, the Proposal closing will automatically be postponed until the next business day the County is open. If inclement weather conditions or any other unforeseen event causes delays in carrier service operations, the County may issue an Addendum to all known Respondents interested in the project to extend the deadline. It will be the responsibility of the Respondent to notify the County of their interest in the project if these conditions are impacting their ability to turn in a submission within the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

4.40 AIR QUALITY

In determining the overall best Proposal, the County may, to the extent applicable, exercise the option granted to local governments under the Texas Local Government Code, Section 271.907.

This option allows the County to evaluate Proposals and give preference to goods and/or services of Respondent that demonstrates that the Respondent meets or exceeds any and all state or federal environmental standards, including voluntary standards, relating to air quality. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. All Respondents are expected to meet all mandated state and federal air quality standards.

4.41 COOPERATIVE PURCHASING PROGRAM

During the term of the Contract resulting from this RFP, the County would like to afford the same prices, terms and conditions to other political subdivisions or public entities. Another entity's participation in the Contract resulting from this RFP is subject to a properly authorized Purchasing Cooperative Inter-local Agreement (ILA) with the County. Any liability created by purchase orders issued against the Contract shall be the sole responsibility of the governmental agency placing the order.

4.42 CONFIDENTALITY

The Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

Supplier: **Pharmacy Alternatives, LLC**

Proposal References

List the last three (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this RFP package, were recently provided by Respondent.

Reference 1

Client Name: **EduCare Community Living Corporation**

Location: **7700 Chevy Chase Dr., Bldg. 1, Ste. 500, Austin, TX 78752**

Contact Name: **Annette Johnson**

Title: **Executive Director**

Phone: **512-454-3795**

E-mail **ajohnson@rescare.com**

Contract Date To: **6/30/2018**

Contract Date From: **7/1/2006**

Contract Value: $ **$1,848,000 (two-year contract value)**

Scope of Work:

Serving EduCare since 2006. Pharmacy Alternatives serves 60 sites, including group homes, day programs, offices, and workshop sites, and provides approximately 14,340 prescriptions annually.

Reference 2

Client Name: **Kentucky Department of Juvenile Justice**

Location: **1025 Capital Center Dr., Frankfort, KY 40601**

Contact Name: **Deborah Curry**

Title: **Nurse Administrator**

Phone: **502-573-3747**

E-mail **deborahs.curry@ky.gov**

Contract Date To: **6/30/2018**

Contract Date From: **8/15/2016**

Contract Value: $ **$1,000,000 (two-year contract value)**

Scope of Work:

Serving the Department of Juvenile Justice since 2016. Pharmacy Alternatives serves 30 facilities across the state and provides approximately 7,500 prescriptions annually. Contract ID Number: PON2 523 1600004011

Reference 3

Client Name:	Location:
The Georgia Center for Youth	**211 Goose Hollow Road, Reynolds, GA 31076**
Contact Name:	Title:
Nashon McPherson	**Regional Director**
Phone:	E-mail
478-235-6862	**nmcpherson@rescare.com**

Contract Date To:	Contract Date From:	Contract Value: $
Present	**5/2012**	**$99,600 (estimated annual)**

Scope of Work:

Serving the State of Georgia since May 2012. Provide pharmacy supports to a 60-bed restricted facility serving children and adolescents who are in the custody of the Department of Family and Children services or are in the care of the Department of Juvenile Justice.

Supplier: **Pharmacy Alternatives, LLC**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

This questionnaire is being filed in accordance with chapter 176 of the Local Government Code by a person doing business with the governmental entity.

By law this questionnaire must be filed with the records administrator of the local government not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1	**Name of person doing business with local governmental entity.**	**Pharmacy Alternatives, LLC**
2	☐	**Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than September 1 of the year for which an activity described in Section 176.006(a), Local Government Code, is pending and not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)
3	**Describe each affiliation or business relationship with an employee or contractor of the local governmental entity who makes recommendations to a local government officer of the local governmental entity with respect to expenditure of money.**	**None**
4	**Describe each affiliation or business relationship with a person who is a local government officer and who appoints or employs a local government officer of the local governmental entity that is the subject of this questionnaire.**	**None**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

Page 2

5	**Name of local government officer with whom filer has affiliation or business relationship. (Complete this section only if the answer to A, B, or C is YES.)** This section, item 5 including subparts A, B, C & D, must be completed for each officer with whom the filer has affiliation or other relationship. Attach additional pages to this Form CIQ as necessary. A. Is the local government officer named in this section receiving or likely to receive taxable income from the filer of the questionnaire? ☐ Yes ☐ No B. Is the filer of the questionnaire receiving or likely to receive taxable income from or at the direction of the local government officer named in this section AND the taxable income is not from the local governmental entity? ☐ Yes ☐ No C. Is the filer of this questionnaire affiliated with a corporation or other business entity that the local government officer serves as an officer or director, or holds an ownership of 10 percent or more? ☐ Yes ☐ No D. Describe each affiliation or business relationship. **N/A** **6. Describe any other affiliation or business relationship that might cause conflict of interest: Pharmacy Alternatives, LLC has no potential conflicts of interest to report.**
7	

	Signature of person doing business with the governmental entity	Date
	Signature not required if completing in BIDSYNC electronically.	

Supplier: **Pharmacy Alternatives, LLC**

PROPOSAL AFFIDAVIT

This form must be completed, signed, notarized and returned with Proposal package

The undersigned certifies that the RFP and the Respondent's Proposal have been carefully reviewed and are submitted as correct and final. Respondent further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Proposal, and upon the conditions contained in the RFP.

I hereby certify that the foregoing Proposal has not been prepared in collusion with any other Respondent or other person or persons engaged in the same line of business prior to the official opening of this Proposal. Further, I certify that the Respondent is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Proposal on, or to influence any person or persons to submit a Proposal or not to submit a Proposal thereon."

Name of Respondent:	**Pharmacy Alternatives, LLC**
Address of Respondent:	**5810 Trade Center Dr., Bldg. 1, Ste. 400, Austin, TX 78744**
Email:	**paul.delomel@palrx.com**
Telephone:	**512-383-9229**
Printed Name of Person Submitting Affidavit:	**Douglas Russell, President of Pharmacy Solutions & Integrated Care**
Signature of Person Submitting Affidavit:	

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Proposal will in no way have a negative impact on the County's evaluation of the Proposal.

☐	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☑	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Respondent agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, , (*Name of Signer*) am a duly authorized officer of/agent for (*Name of Respondent*) and have been duly authorized to execute the foregoing on behalf of the said (*Name of Respondent*).

SUBSCRIBED AND SWORN to before me by the above-named
on this the day of , 20.

Notary Public in and for

The State of

The County of

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

Supplier: **Pharmacy Alternatives, LLC**

PRICE SHEET

The undersigned Respondent, having become familiar with this RFP agrees to furnish the services and/or goods in accordance with this RFP at the following rate(s).

Please provide AWP Plus/Minus % Discount in blanks provided below and complete the 2 pages of Drug Brand/Generic price sheets with Per/Capsule-Pill pricing.

Proposer shall provide current Average Wholesale Price (AWP) minus a percentage (%) discount plus a dispensing fee (if applicable).

BRAND NAME MEDICATIONS

Minus Percent (%) Discount 10%

Dispensing Fee (if applicable) $5.00

GENERIC MEDICATIONS

Minus Percent (%) Discount 14%

Dispensing Fee (if applicable) $4.50

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
VALPROIC ACID 250MG CAP	**$5.26**	**$4.96**
HYDROXYZINE PAM 50MG CAP	**$4.79**	**$4.52**
BUPROPION 100MG TAB	**$5.36**	**$5.07**
LITHIUM CARB 300MG CAP	**$4.92**	**$4.65**
QUETIAPINE 100MG TAB	**$10.67**	**$10.08**
LACTULOSE 10GM/15 SOL	**$65.17**	**$61.55**
ANTI-DANDRUF 1%	**$8.61**	**$8.13**
HYDROCERIN LOT	**$13.61**	**$12.85**
GERI-MOX SUS	**$9.47**	**$8.94**
DIPHENHYDRAMINE 25MG CAP	**$4.55**	**$4.29**
SUDOGEST 60MG TAB	**$4.55**	**$4.29**
DIPHENHYDRAMINE 50MG CAP	**$4.63**	**$4.37**
AMOXICILLIN 500MG CAP	**$4.89**	**$4.62**
QUETIAPINE 300MG TAB	**$19.76**	**$18.67**
NAPROXEN 500MG TAB	**$5.67**	**$5.36**
AMITRIPTYLINE 25MG TAB	**$4.82**	**$4.56**
TRAMADOL 50MG TAB	**$5.22**	**$4.93**
METFORMIN 500MG TAB	**$5.13**	**$4.85**
HYDROXYZ PAMOATE 25MG CAP	**$4.77**	**$4.51**
POLYETH GLYC 3350 NF POW	**$7.21**	**$6.81**
QUETIAPINE 200MG TAB	**$16.15**	**$15.25**
LISINOPRIL 10MG TAB	**$5.40**	**$5.10**
VENLAFAXINE 75MG TAB	**$6.46**	**$6.10**
HCTZ 25MG TAB	**$4.57**	**$4.32**
BENZTROPINE 1MG TAB	**$4.85**	**$4.58**
METFORMIN 1000MG TAB	**$5.80**	**$5.47**
CITALOPRAM 20MG TAB	**$6.80**	**$6.43**
BENAZEPRIL 10MG TAB	**$5.45**	**$5.14**
TRAZODONE 100MG TAB	**$5.69**	**$5.37**
SMZ/TMP DS 800-160 TAB	**$13.45**	**$12.70**
POLYETH GLYC 3350 NF POW	**$7.21**	**$6.81**
BUPROPION 75MG TAB	**$5.15**	**$4.86**
TRAZODONE 50MG TAB	**$5.21**	**$4.92**
AMLODIPINE 10MG TAB	**$6.64**	**$6.27**

PRICE SHEET (CONTINUED)

Provide price per capsule/tablet for the following drugs (brand and generic):

Drug Name	Brand	Generic
QUETIAPINE 300MG TAB	**$19.76**	**$18.67**
ATRIPLA TAB	**$96.24**	**$90.89**
QUETIAPINE 100MG TAB	**$10.67**	**$10.08**
TRUVADA TAB	**$60.93**	**$57.55**
LANTUS 100/ML INJ	**$31.34**	**$29.60**
QUETIAPINE 200MG TAB	**$16.15**	**$15.25**
DULOXETINE 60MG CAP	**$11.29**	**$10.66**
REYATAZ 300MG CAP	**$56.68**	**$53.53**
OLANZAPINE 20MG TAB	**$40.35**	**$38.11**
COMPLERA TAB	**$101.51**	**$95.64**
OLANZAPINE 10MG TAB	**$22.43**	**$21.18**
QUETIAPINE 400MG TAB	**$22.44**	**$21.19**
LATUDA 40MG TAB	**$44.58**	**$42.10**
BUPROPION 100MG TAB	**$5.36**	**$5.07**
DIVALPROEX 500MG ER TAB	**$8.16**	**$7.71**
ABILIFY 10MG TAB	**$36.61**	**$34.58**
VALPROIC ACID 250MG CAP	**$5.26**	**$4.96**
ISENTRESS 400MG TAB	**$29.51**	**$27.87**
CYCLOPHOSPH 25MG TAB	**$7.01**	**$6.62**
INVEGA 9MG TAB	**$59.43**	**$56.13**
OLANZAPINE 5MG TAB	**$16.38**	**$15.47**
LATUDA 20MG TAB	**$44.58**	**$42.10**
OLANZAPINE 15MG TAB	**$31.38**	**$29.64**
HUMULIN R U-100 U-100 INJ	**$25.24**	**$23.83**
INVEGA 3MG TAB	**$41.12**	**$38.84**
VENTOLIN HFA AER	**$7.31**	**$6.90**
ABILIFY 5MG TAB	**$36.61**	**$34.58**
NORVIR 100MG TAB	**$13.76**	**$13.00**
ADVAIR DISKUS 250/50 AER	**$11.01**	**$10.40**
PROMETHAZINE HCL 25MG SUPR	**$20.43**	**$19.30**
EPINEPHRINE 0.3MG 2-PACK	**$342.00**	**$323.00**
INVEGA 6MG TAB	**$77.73**	**$73.41**
XIFAXAN 550MG TAB	**$40.52**	**$38.27**
PERMETHRIN 5% CRM	**$6.35**	**$6.00**
PREZISTA 800MG TAB	**$57.74**	**$54.31**

Drug Name	Diamond Drugs, Inc.		Bio Care Pharmacy	New Dimension Pharmacy		MAO Pharmacy/ Westwood Pharmacy	Correct Rx Pharmacy Services, Inc.	Pharmacy Alternatives, LLC
Valproic Acid 250MG Cap	0.26		0.87	0.25		0.06	0.0556	4.96
Hydroxyzine Pam 50MG Cap	0.18		0.80	0.08		0.02	0.0155	4.52
Bupropion 100MG Tab	0.20		1.47	0.23		0.06	0.6720	5.07
Lithium Carb 300MG Cap	0.12		0.25	0.09		0.01	0.0112	4.65
Quetiapine 100MG Tab	0.34		0.30	3.20		0.38	0.48	10.08
Lactulose 10GM/15 Sol	0.02		0.08	0.18	B	B 0.06	0.0038	61.55
Anti-Dandruff 1%	0.03	B	0.14	2.90	B	0.02	0.0218	8.13
Hydrocerin Lot	0.02	B	0.06	5.50	B	0.01	0.0093	12.85
Geri-Mox Sus	0.01		0.12	3.21	B	0.01	0.0050	8.94
Diphenhydramine 25MG Cap	0.11		0.12	0.30	B	0.05	0.0582	4.29
Sudogest 60MG Tab	0.12	B	0.09	0.45	B	0.03	0.0579	4.29
Diphenhydramine 50MG Cap	0.11		0.15	0.40		0.07	0.0582	4.37
Amoxicillin 500MG Cap	0.16		0.35	0.13		0.02	0.0266	4.62
Quetiapine 300MG Tab	0.85		1.26	10.09		0.94	1.1874	18.67
Naproxen 500MG Tab	0.06		0.40	0.73		0.07	0.0835	5.36
Amitriptyline 25MG Tab	0.30		0.88	0.41		0.03	0.2530	4.56
Tramadol 50MG Tab	0.04		0.15	0.54		0.05	0.0039	4.93

Metformin 500MG Tab		0.04		0.10		0.35		0.04		0.0040	4.85
Hydroxyz Pamoate 25MG Cap		0.16		0.30		0.07		0.02		0.0144	4.51
Polyeth Glyc 3350 NF Pow		0.03		0.08		6.50	B	0.06		0.0003	6.81
Quetiapine 200MG Tab		0.65		1.75		8.40		0.71		1.1874	15.25
Lisinopril 10MG Tab		0.05		0.10		0.64		0.06		0.0018	5.10
Venlafaxine 75MG Tab		0.11		1.02		1.40		0.02		0.0302	6.10
HCTZ 25MG Tab		0.11		0.10		0.05	B	0.06		0.0056	4.32
Benztropine 1MG Tab		0.21		0.52		0.26		0.02		0.0272	4.58
Metformin 1000MG Tab		0.07		0.15		0.94		0.08		0.0066	5.47
Citalopram 20MG Tab		0.13		0.15		1.74		0.14		0.1694	6.43
Benazepril 10MG Tab		0.05		0.25		0.68		0.06		0.0736	5.14
Trazodone 100MG Tab		0.16		0.50		0.75		0.06		0.0425	5.37
SMZ/TMP DS 800-160 Tab		0.18		0.40		0.71		0.06		0.0765	12.70
Bupropion 75MG Tab		0.24		0.80		0.51		0.04		0.0504	4.86
Trazodone 50MG Tab		0.04		0.35		0.59		0.04		0.0290	4.92
Amlodipine 10MG Tab		0.12		0.10		0.95		0.13		0.1663	6.27
Quetiapine 300MG Tab		0.85		1.26		9.50		0.94		1.1874	18.67
Atripla Tab	B	83.17	B	142.98	B	27.51		6.84	B	80.5243	90.89
Quetiapine 100MG Tab		0.34		0.30		3.45		0.38		0.4800	10.08
Truvada Tab	B	51.20	B	87.95	B	16.92		3.45	B	49.5367	57.55

Lantus 100/ML INJ	B	23.26	B	41.22	B	268.00		1.64	B	23.5590	29.60
Quetiapine 200MG Tab		0.65		1.05		6.38		0.71		0.9056	15.25
Duloxetine 60MG Cap		0.38		0.84		1.52		0.42		0.0820	10.66
Reyataz 300MG Cap	B	47.35	B	81.32	B	15.65		2.53	B	46.2390	53.53
Olanzapine 20MG Tab		0.80		0.81		5.15		2.19		0.6613	38.11
Complera Tab		87.49	B	150.40		96.48		5.90	B	84.7123	95.64
Olanzapine 10MG Tab		0.40		0.80		4.15		1.10		0.3786	21.18
Quetiapine 400MG Tab		1.00		1.30		9.50		1.10		1.3954	21.19
Latuda 40MG Tab	B	34.73		60.94	B	12.01		2.45	B	35.1803	42.10
Bupropion 100MG Tab		0.20		2.63		0.68		0.06		0.0672	5.07
Divalproex 500MG ER Tab		0.39		1.65		2.65		0.22		0.2852	7.71
Abilify 10MG Tab		1.61		1.05	B	5.24		1.77		2.24	34.58
Valproic Acid 250MG Cap		0.26		0.90		0.54		0.06		0.0556	4.96
Isentress 400MG Tab	B	22.75	B	38.99	B	25.00		1.53	B	21.9557	27.87
Cyclophosph 25MG Tab		4.39		17.54		6.08		0.51	B	7.3960	6.62
Invega 9MG Tab		16.37		36.96		8.90		2.52		2.2467	56.13
Olanzapine 5MG Tab		0.25		0.56		2.39		0.70		0.1468	15.47
Latuda 20MG Tab	B	34.73	B	60.94	B	12.04		2.45	B	35.1803	42.10
Olanzapine 15MG Tab		0.56		0.77		5.41		1.64		0.5306	29.64
Humulin R U-100 U-100 INJ	B	8.92	B	27.66	B	160.20		0.98		3.80	23.83

Invega 3MG Tab		10.92	B	57.08		5.94		1.68		2.1370	38.84
Ventolin HFA AER	B	2.71	B	5.78		62.60		0.19	B	0.2664	6.90
Abilify 5MG Tab		1.61		2.88		6.24		1.77		2.24	34.58
Norvir 100MG Tab	B	8.48	B	16.19	B	9.24		0.57	B	8.1263	13.00
Advair Diskus 250/50 AER	B	5.76	B	11.10	B	389.10		0.40	B	4.6157	10.40
Promethazine HCL 25MG S.		5.17		14.00		6.28		0.97		1.2392	19.30
Epinephrine 0.3MG 2-Pack		140.84		335.94		300.00		13.59		12.60	323.00
Invega 6MG Tab		15.05		26.80		5.94		1.68		2.1370	73.41
Xifaxan 550MG Tab	B	31.73	B	54.78	B	15.60		2.20		2.8012	38.27
Permethrin 5% CRM		0.64	B	3.38	B	0.88		0.11		0.1387	6.00
Prezista 800MG Tab	B	47.85	B	82.19	B	52.70		3.22	B	46.2880	54.31
		$ 698.09		$ 1,385.10		$ 1,613.10		$ 71.90		$ 486.22	$ 1,650.96

Commissioners Court - Regular Session **39.**

Meeting Date: 10/17/2017

Advertisement Approval IFB 1710 194 Neenah Ave Widening

Submitted For: Randy Barker **Submitted By:** Thomas Skiles, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take appropriate action on authorizing the Purchasing Agent to advertise and receive sealed bids for Neenah Avenue Widening under IFB # 1710-194.

Background

Williamson County is seeking qualified contractors to construct 0.70 miles of roadway widening, pavement markings and signage, shared use paths, drainage improvements including the extension of a bridge class culvert, and expansion of an existing full sedimentation/filtration water quality and detention pond.

Estimated time of completion is 350 calendar days to substantial completion, and 30 additional calendar days to final completion, with an estimated cost of $3,700,000.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Bid Packet

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	10/11/2017 04:12 PM
County Judge Exec Asst.	Wendy Coco	10/11/2017 04:31 PM
Form Started By: Thomas Skiles		Started On: 10/11/2017 09:29 AM
Final Approval Date: 10/11/2017		

Solicitation 1710-194

Neenah Avenue Widening

Bid Designation: Public

Williamson County, Texas

Bid 1710-194
Neenah Avenue Widening

Bid Number	1710-194
Bid Title	Neenah Avenue Widening
Expected Expenditure	**$3,700,000.00** (This price is expected - not guaranteed)
Bid Start Date	In Held
Bid End Date	Nov 15, 2017 3:30:00 PM CST
Question & Answer End Date	Nov 10, 2017 5:00:00 PM CST
Bid Contact	Blake Skiles Purchasing Specialist III 512-**943**-1478 blake.skiles@wilco.org
Contract Duration	**1 year**
Contract Renewal	1 annual renewal
Prices Good for	**30 days**
Pre-Bid Conference	**Nov 1, 2017 3:30:00 PM CDT** **Attendance is optional** **Location: 901 S. Austin Ave. Georgetown, TX 78626**
Bid Comments	**Williamson County is seeking qualified contractors to construct 0.70 miles of roadway widening, pavement markings and signage, shared use paths, drainage improvements including the extension of a bridge class culvert, and expansion of an existing full sedimentation/filtration water quality and detention pond.** **Estimated time of completion is 350 calendar days to substantial completion, and 30 additional calendar days to final completion, with an estimated cost of $3,700,000.** **<u>If entering an electronic bid in BidSync (PREFERRED), the following documents MUST be completed and attached to the First Line Item.</u>** **Completed Bid Form – Enter Total Price in area provided, then download/print/complete bid form and upload to first line item.** **Bid Affidavit - This is a Fill-able form - Complete and Accept.** **Bid Bond - See Details Below.** **<u>The following documents are fillable forms on BidSync - Fill in blanks and accept to apply to the bid.</u>** **Conflict of Interest Form** **References** **Bid Bond - See Details Below.** **If delivering a paper bid instead of electronic, you must provide (2) originals, (1) copy, and (1) USB or CD of all the required documents. All documents must be delivered in a sealed envelope to:** **Williamson County Purchasing** **Attn: Neenah Avenue Widening** **901 South Austin Ave** **Georgetown, TX 78626** **<u>BID BOND REQUIRED</u> : Bidders are not required to use Surety 2000 for your Bid Bond supplier, however;**

when bidding electronically in BidSync and using Surety 2000, you may import your bid bond directly from the Surety 2000 website.
To use a different bond provider, you MUST: Scan the completed Bond; download the completed bond to the first line item of this bid with your other required documents or your bid will be disqualified.

All Bids shall be accompanied by either;
A certified cashier's check: payable without recourse to Williamson County and drawn upon a National or State Bank in the amount not less than five percent (5%) of the total maximum bid price;
A bid bond not less than five percent (5%) of the total maximum bid price, from a surety company authorized to do business in the State of Texas.

For unit price contracts, the total maximum bid price shall be estimated and calculated by multiplying the estimated quantities to the unit bid price.

Bid bonds must be attached to the line item of the electronic bid OR submitted in the same sealed envelope with a paper Bid.

Bids requiring a bid bond and submitted without a cashier's check or a bid bond will not be considered.

If you are awarded the bid, please see reference to new State Requirement for Certificate of Interest in Section 3 Bid Instructions/Requirements: #36: Certificate of Interested Parties.

Bonds
Payment and Performance Bond documents are provided in the Bid documents for completion upon award.
Maintenance Bond documents are provided in the Bid documents for completion upon final completion of the work.

LIQUIDATED DAMAGES for failure to substantially complete the work within the allotted time will be applied.
The road-user cost Liquidated Damages will be in accordance with Special Provision 000-001, and are estimated to be $970 per calendar day.

PLAN HOLDERS LISTS
Please note that a bidder adding their name to the Plan-Holders list is voluntary.
The plan-holder's on construction bids allows Prime and Subcontractors to add their names and information to a list of users that are participating in this bid. To add a company to the Plan holder's list, the user will choose either the Subcontractor or the Prime contractor tabs and then click Add my company to this Plan holder's list. This will add the company's contact information to the Plan holder's list for other suppliers on the list to see.

If the user would like to view the suppliers that have been added to the list, they will need to click on the Subscribe button. This will allow the user to view other suppliers that have added their names to the Plan holder's list. Both actions will require that the vendor agree to the terms for the action

Contract Administrator for this project is Bob Daigh, Senior Director of Infrastructure or designee, and shall be the Contract Administrator with designated responsibility to ensure compliance with contract requirements, such as but not limited to acceptance, inspection, and delivery. The contract administrator will serve as liaison between Williamson County Commissioners Court and the successful bidder or the Construction Inspector.

Item Response Form

Item	**1710-194--01-01 - Please Attach All Documents To This Line**
Quantity	**1 each**

Prices are not requested for this item.

Delivery Location	**Williamson County, Texas**
	No Location Specified

Qty 1

Description
Please Attach All Documents To This Line

PUBLIC ANNOUNCEMENT AND GENERAL INFORMATION

WILLIAMSON COUNTY PURCHASING DEPARTMENT
SOLICITATION 1710-194
Neenah Avenue Widening

BIDS MUST BE RECEIVED ON OR BEFORE:
Nov 15, 2017 3:30:00 PM CST

BIDS WILL BE PUBLICLY OPENED:
Nov 15, 2017 3:30:00 PM CST

Notice is hereby given that sealed Bids for the above-mentioned goods and/or services will be accepted by the Williamson County Purchasing Department. Williamson County uses BidSync to distribute and receive bids. Specifications for this IFB may be obtained by registering at www.bidsync.com.

Williamson County prefers and requests electronic submittal of this Bid.

All electronic bids must be submitted via: www.bidsync.com

Electronic bids are requested, however paper bids will currently still be received, until further notice and may be mailed or delivered to the address listed below.

Bidders are strongly encouraged to carefully read this entire IFB.

All interested Bidders are invited to submit a Bid in accordance with the Instructions and General Requirements, Bid Format, Bid Specifications, and Definitions, Terms and Conditions stated in this IFB.

Please note that a complete package must be submitted choosing one of the above two methods. Split packages submitted will be considered "unresponsive" and will not be accepted or evaluated.

Williamson County will not accept any Bids received after the submittal deadline, and shall return such Bids unopened to the Bidder.

General Information:

- If mailed or delivered in person, Bids and Bid addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed above for this IFB, to:

  Williamson County Purchasing Department
  Attn: **BID NAME AND NUMBER**
  901 South Austin Avenue
  Georgetown, Texas 78626

  - Bidders should list the Bid Number, Bid Name, Name and Address of Bidder, and the Date of the Bid opening on the outside of the box or envelope and note "Sealed Bid Enclosed."
  - Bidder should submit one (1) original.
  - Williamson County will NOT be responsible for unmarked or improperly marked envelopes.
  - Williamson County will not accept any responsibility for Bids being delivered by third party carriers.
  - Facsimile transmittals will NOT be accepted.

- Bids will be opened publicly in a manner; however, to avoid public disclosure of contents only the names and of Bidders and prices will be read aloud.

- All submitted questions with their answers will be posted and updated on www.bidsync.com.

- It is the Bidder's responsibility to review all documents in BidSync, including any Addenda that may have been added after the document packet was originally released and posted.

  - Any Addenda and/or other information relevant to the IFB will be posted on www.bidsync.com.

  - The Williamson County Purchasing Department takes no responsibility to ensure any interested Bidder has obtained any outstanding addenda or additional information.

WILLIAMSON COUNTY
1848

WILLIAMSON COUNTY

PROJECT CONSTRUCTION MANUAL

FOR

NEENAH AVE WIDENING

SOLICITATION 1710-194

WILLIAMSON COUNTY, TEXAS
PURCHASING DEPARTMENT
901 SOUTH AUSTIN AVENUE
GEORGETOWN, TEXAS 78626

October 2017

10.9.2017

STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER

Stephanie D Blew

The enclosed Specifications, Special Specifications, Special Provisions, General Notes, and Specification Data in this document have been selected by me, or under my responsible supervision as being applicable to this project. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act.

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SECTION 1
ADDENDA

ADDENDUM NO. __

Date:

Owner: **Williamson County, Texas**

Project Name:

Project No:

This Addendum forms a part of the Contract and clarifies, corrects or modifies the original Construction Documents, dated _____. Acknowledge receipt of this addendum in space provided on Bid Form. Failure to do so may subject bidder to disqualification.

DESCRIPTION OF ADDITION OR CHANGE:

This addendum consists of __ page(s).

_____
Approved by ENGINEER

END

EXAMPLE

SECTION 2
INVITATION FOR BIDS

PUBLIC NOTICE WILLIAMSON COUNTY
INVITATION FOR BIDS

Williamson County Commissioner's Court invites the submission of sealed bids for:

NEENAH AVENUE WIDENING

Williamson County is seeking qualified contractors to construct 0.70 miles of roadway widening, pavement markings and signage, shared use paths, drainage improvements including the extension of a bridge class culvert, and expansion of an existing full sedimentation/filtration water quality and detention pond. Estimated time of completion is 350 calendar days to substantial completion, and 30 calendar days to final completion, with an estimated cost of $4,200,000.

Sealed bids will be publicly opened and read aloud in the Williamson County Purchasing Department, 901 South Austin Avenue, Georgetown, Texas on November 15th at 3:30 pm.

Bids must be received on or before Wednesday, November 15th at 3:30 pm.

Bid documents and plans may be viewed and responded to by registering with BIDSYNC at www.bidsync.com.

No fee is required to register with Bidsync as a Williamson County Supplier, or to participate in the County's solicitation process. The receipt of electronic bids will be registered in Bidsync.

The Time-Date Stamp Clock located at the Williamson County Purchasing Department will serve as the official clock for the purpose of verifying the date and time of receipt of Paper Bids.

There will be a Non-Mandatory Pre-Bid Conference on November 1st at 3:30 pm at Williamson County Purchasing Department, 901 South Austin Avenue, Georgetown, Texas.

BID BOND REQUIRED
A Cashier's Check, Certified Check, or acceptable Bidder's Bond in the amount of five percent (5%) of the Bid must accompany each Bid. Performance, Payment and Warranty Bonds will be required as designated in the bidding documents.

The Williamson County Commissioners' Court reserves the right to accept the lowest and best Bid as deemed by the Court, or reject any and/or all bids.

Bidder shall use per unit pricing. Payments will be made by check.

The designated Purchasing Agent for this Bid is William Hutchinson, Senior Purchasing Specialist, under the direction of Randy Barker, Purchasing Agent for Williamson County, 512-943-3553.

This notice is issued by order of the Williamson County Commissioners' Court on October 17th; Dan A. Gattis, County Judge.

SECTION 3
BID INSTRUCTIONS/REQUIREMENTS

BID INSTRUCTIONS/REQUIREMENTS

All Bids must be received in the Williamson County Purchasing Department either hardcopy or electronically through BidSync.

Williamson County prefers and requests electronic submittal of this bid.

All electronic bids must be submitted via: www.bidsync.com

All interested Respondents are invited to submit a Bid in accordance with the Instructions and General Requirements, Bid Format, Bid Specifications, and Definitions, Terms and Conditions stated in this BID.

Electronic bids are requested, however paper bids will currently still be received, until further notice and may be mailed or delivered to the address listed below.

Please note that a complete package must be submitted choosing one of the above two methods.

Split packages submitted will be considered "unresponsive" and will not be accepted or evaluated.

If mailed or delivered in person, Bids are to be delivered in sealed envelope on or before the submittal deadline to:

Williamson County Purchasing Department
Attn: **BID NAME AND NUMBER**
901 South Austin Avenue
Georgetown, Texas 78626

Respondents should list the Bid Number, Bid Name, Name and Address of Respondent, and the Date of the Bid opening on the outside of the box or envelope.

Respondent should submit one (1) original; **AND** (2) two copies and (1) CD **OR** (1) USB copy of the Bid.

Williamson County will not accept any Bids received after the submittal deadline.
Williamson County will not accept any responsibility for Bids being delivered by third party carriers. Facsimile transmittals will NOT be accepted.

All questions should be submitted on the Bidsync site. Questions with their answers will be posted and updated on www.bidsync.com.

Any addenda and/or other information relevant to the Bid will be posted on: www.bidsync.com.

ALL BIDS MUST BE SUBMITTED ON THE FORMS PROVIDED IN THIS BID DOCUMENT. (May be replaced with a computer generated printout, if submitted in an identical format to the proposal).

FACSIMILE AND ELECTRONIC MAIL TRANSMITTALS SHALL NOT BE ACCEPTED.

1. All of the items listed are to be on a "per unit" basis, stating a firm price per unit or unit quantity of each item. **This price must be good from the date of Bid opening through the completion of the project. Bids which do not state a fixed price will not be considered.** The Court may award a contract for the period implied or expressly stated in the lowest and best Bid.

2. All of the items listed are to be Free On Board to final destination **(FOB DESTINATION)** with all transportation charges if applicable to be included in the price, unless otherwise specified in the Invitation for Bids. The title and risk of loss of the goods shall not pass to the County until receipt and acceptance takes place at the FOB point.

3. It is understood that the Commissioners Court of Williamson County, Texas, reserves the right to accept or reject any and/or all Bids for any or all materials and/or services covered in this Bid request, and to waive informalities or defects in the Bid or to accept such Bid it shall deem to be in the best interest of Williamson County.

4. Funding: Funds for payment have been provided through the Williamson County budget approved by Commissioners Court for the 2013 Road Bond Program.

5. Late Bid: Bids received after submission deadline will be considered VOID AND UNACCEPTABLE and will be returned to the bidder unopened. Williamson County is

not responsible for lateness or non-delivery of mail, carrier, etc. The date and time stamp of the Williamson County Purchasing Department shall be the official date and time of receipt.

6. Altering Bid: Bidders **cannot alter or amend bid** after submission deadline.

7. Sales Tax: Williamson County is by statute, exempt from the State Sales Tax and Federal Excise Tax.

8. Contract: This Bid, when properly accepted by Williamson County, shall constitute a contract equally binding between the successful bidder and Williamson County. No different or additional terms will become part of this contract.

9. Changes: No oral statement of any person shall modify or otherwise change, or affect the terms, conditions, plans and/or specifications stated in the Bid Package and or Bid Instructions/Requirements.

10. Delivery Times and Locations: The commodity and/or service covered by this Bid shall be as stated in the Bid Package.

11. Payments: The Construction Inspector will manage the Contractor payments. Invoices for the work specified in the Contract Documents will be submitted to the Construction Inspector. Upon satisfactory completion and acceptance of these invoices, the Construction Inspector will forward the invoices to the County via the GEC. County's payment for goods and services shall be governed by Chapter 2251 of the Texas Government Code. An invoice shall be deemed overdue the 31st day after the later of (1) the date County receives the goods under the Contract; (2) the date the performance of the service under the Contract is completed; or (3) the date the Williamson County Auditor receives an invoice for the goods or services. Interest charges for any overdue payments shall be paid by County in accordance with Texas Government Code Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one percent (1%); and (2) the prime rate published in the Wall Street Journal on the first day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by Successful Bidder, County shall notify Successful Bidder of the error not later than the twenty first (21st) day after the date County receives the invoice. If the error is resolved in favor of Successful Bidder, Successful Bidder shall be entitled to receive interest on the unpaid balance of the invoice submitted by Successful Bidder beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, Successful Bidder shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by Chapter 2251 of the Texas Government Code if the corrected invoice is not paid by the appropriate date. As a minimum, invoices shall include:

(1) Name, address, and telephone number of Contractor and similar information in the event the payment is to be made to a different address

(2) County contract, Purchase Order, and/or delivery order number

(3) Identification of items or service as outlined in the contract

(4) Quantity or quantities, applicable unit prices, total prices, and total amount

(5) Any additional payment information which may be called for by the Contract

Payment inquiries should be directed to the Williamson County Auditor's Office, Accounts Payable Department:
512-943-1573
accountspayable@wilco.org

12. Conflict of Interest: No public official shall have interest in a contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code Title 5, Subtitle C, Chapter 171. As of January 1, 2006 Vendors are responsible for complying with

Local Government Code Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County website at the following link: http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en-US/Default.aspx. The Williamson County Conflict of Interest Questionnaire is attached as a fillable form. This form must be completed, signed, and submitted with your bid (attached to the first Line Item of this bid) or completed electronically and signed electronically when entering your password in Bidsync.

13. Ethics: The bidder shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official or agent of Williamson County.

14. Minimum Standards for Responsible Bidders: A prospective bidder must affirmatively demonstrate bidder's responsibility. A prospective bidder must meet the following requirements:

    a. have adequate financial resources, or the ability to obtain such resources as required;

    b. be able to comply with the required or proposed delivery schedule;

    c. have a satisfactory record of performance;

    d. be otherwise qualified and eligible to receive an award.

    Williamson County may request representation and other information sufficient to determine bidder's ability to meet these minimum standards listed above.

15. References: Williamson County **REQUIRES** bidder to supply with this Bid, a list of at least **three (3) references** where like services have been supplied by their firm. The Bidder References Form is attached as a fillable form in this bid document. This form must be completed and attached to the first line item on your bid or included with an all paper bid.

16. Bidder shall provide with this Bid response, all documentation required by this Bid. Failure to provide this information may result in rejection of the Bid.

17. Termination for Default: Williamson County reserves the right to enforce the performance of this contract in any manner prescribed by law or deemed to be in the best interest of the County in the event of breach or default of this contract. Non-Performance of the bidder in terms of specifications shall be a basis for the termination of the contract by the County. The County shall not pay for commodities/services which are unsatisfactory. Contractors will be given a reasonable opportunity before termination to correct the deficiencies. This, however, shall in no way be construed as negating the basis for termination for non-performance.

18. Contract Administration: Under this contract, Robert Daigh, Williamson County Sr. Director of Infrastructure or designee, shall be the contract administrator with designated responsibility to ensure compliance with contract requirements, such as but not limited to, acceptance, inspection and delivery. The contract administrator will serve as liaison between Williamson County Commissioners Court and the successful bidder or the Construction Inspector.

19. Purchase Order: Williamson County may generate a purchase order(s) to the successful bidder as products and/or services are required. The purchase order number must appear on all itemized invoices and/or request for payment.

20. Silence of Specifications: The apparent silence of these specifications as to any detail or to the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

21. Contract Times and Liquidated Damages - Bidders must agree to commence work on or before a date to be specified in a written “Notice to Proceed” of the County, and to fully complete the project within the specified time stated in the proposal. Bidders must agree to pay liquidated damages in accordance with Special Provision 000-001 per day to County for

every day past the specified completion date stated in the proposal.

22. BIDS MUST BE: legible and of a quality that can be reproduced.

23. Bid forms that are included in the Bid package shall be used. **CHANGES to Bid forms made by bidders shall DISQUALIFY THE BID.** Exceptions to the Bid forms and or specifications shall be made on an **attachment** to the Bid package.

24. Workers Compensation Coverage Requirements: The Texas Labor Code, §406.096, requires workers' compensation insurance coverage for all persons providing services on a building or construction project for a governmental entity. The rule requires a governmental entity to timely obtain certificates of coverage and retain them for the duration of the project. The rule also sets out the language to be included in bid specifications and in contracts awarded by a governmental entity and the information required to be in the posted notice to employees. The rule is adopted under the Texas Labor Code, §402.061. The information provided below is a result of this rule. By submitting your bid to the county, you are acknowledging that this rule is a part of these bid specifications, and that you will observe and abide by all of the requirements outlined in the rule. You are further agreeing that should your bid or proposal be accepted by the Williamson County Commissioners' Court, the necessary certificates of coverage showing workers' compensation coverage, will be provided to the following name and address, prior to beginning work:

Williamson County Purchasing Department
901 South Austin Avenue
Georgetown, Texas 78626

If you have any questions related to this ruling and/or requirement, you are encouraged to contact either the Williamson County Purchasing Department at (512) 943-1553, or you may call the Texas Workers' Compensation Commission at (512) 804-4000.

A. Definitions: The following words and terms, when used in this provision, shall have the following meanings. Terms not defined in this rule shall have the meaning defined in the Texas Labor Code, if so defined.

(1) Certificate of coverage ("certificate")-A copy of a certificate of insurance, a certificate of authority to self-insure issued by the commission, or a coverage agreement (TWCC-81, TWCC-82, TWCC-83, or TWCC-84), showing statutory workers' compensation insurance coverage for the person's or entity's employees (including those subject to a coverage agreement) providing services on a project, for the duration of the project.

(2) Building or construction – Has the meaning defined in the Texas Labor Code, §406.096(e)(1).

(3) Contractor--A person bidding for or awarded a building or construction project by Williamson County.

(4) Coverage--Workers' compensation insurance meeting the statutory requirements of the Texas Labor Code, §401.011(44).

(5) Coverage agreement--A written agreement on form TWCC-81, form TWCC-82, form TWCC-83, or form TWCC-84, filed with the Texas Workers' Compensation Commission which establishes a relationship between the parties for purposes of the Texas Workers' Compensation Act, pursuant to the Texas Labor Code, Chapter 406, Subchapters F and G, as one of employer/employee and establishes who will be responsible for providing workers' compensation coverage for persons providing services on the project.

(5) Duration of the project - includes the time from the beginning of the work on the project until the contractor's/person's work on the project has been completed and accepted by the governmental entity.

(6) Persons providing services on the project ("subcontractor" in §406.096) - includes all persons or entities performing all or part of the services the contractor has undertaken to perform on the project, regardless of whether that person

contracted directly with the contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity which furnishes persons to provide services on the project. "Services" include, without limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to a project. "Services" does not include activities unrelated to the project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.

(8) Project--Includes the provision of all services related to a building or construction contract for Williamson County.

B. The contractor shall provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all employees of the contractor providing services on the project, for the duration of the project.

C. The Contractor must provide a certificate of coverage to the governmental entity prior to being awarded the contract.

D. If the coverage period shown on the contractor's current certificate of coverage ends during the duration of the project, the contractor must, prior to the end of the coverage period, file a new certificate of coverage with the governmental entity showing that coverage has been extended.

E. The contractor shall obtain from each person providing services on a project, and provide to the governmental entity:

(1) a certificate of coverage, prior to that person beginning work on the project, so the governmental entity will have on file certificates of coverage showing coverage for all persons providing services on the project;

(2) no later than seven (7) days after receipt by the contractor, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project.

F. The contractor shall retain all required certificates of coverage for the duration of the project and for one year thereafter.

G. The contractor shall notify Williamson County in writing by certified mail or personal delivery, within ten (10) days after the contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project.

H. The contractor shall post on each project site a notice, in the text, form and manner prescribed by the Texas Workers' Compensation Commission, informing all persons providing services on the project that they are required to be covered, and stating how a person may verify coverage and report lack of coverage.

I. The contractor shall contractually require each person with whom it contracts to provide services on a project, to:

(1) provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all of its employees providing services on the project, for the duration of the project;

(2) provide to the contractor, prior to that person beginning work on the project, a certificate of coverage showing that coverage is being provided for all employees of the person providing services on the project, for the duration of the project;

(3) provide the contractor, prior to the end of the coverage period, a new

certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project;

(4) obtain from each other person with whom it contracts, and provide to the contractor:

(a) a certificate of coverage, prior to the other person beginning work on the project; &

(b) a new certificate of coverage showing extension of coverage, prior to the end of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the project;

(5) retain all required certificates of coverage on file for the duration of the project and for one year thereafter;

(6) notify the governmental entity in writing by certified mail or personal delivery, within ten(10) days after the person knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project; and

(7) contractually require each person with whom it contracts, to perform as required by paragraphs (1) - (7), with the certificates of coverage to be provided to the person for whom they are providing services.

J. By signing this contract or providing or causing to be provided a certificate of coverage, the contractor is representing to the governmental entity that all employees of the contractor who will provide services on the project will be covered by workers' compensation coverage for the duration of the project, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance Regulation. Providing false or misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

K. The contractor's failure to comply with any of these provisions is a breach of contract by the contractor which entitles the governmental entity to declare the contract void if the contractor does not remedy the breach within ten (10) days after receipt of notice of breach from Williamson County.

25. **PERFORMANCE AND PAYMENT BONDS:** Chapter 262.032 and Chapter 2253.021 of the Texas Government Code governs the requirements for performance bonds and payment bonds for government entities making public work contracts. A performance bond is required if the contract is in excess of $50,000 and is to be made for the full amount of the contract. A payment bond is required if the contract is in excess of $25,000 and is to be made for the full amount of the contract. The bonds are to be executed within ten (10) days after receipt of written notification of award of contract prior to beginning work on the project and must be executed by a corporate surety or sureties in accordance with the Texas Insurance Code. In the event the bond exceeds $100,000.00, the surety must also (1) hold a certificate of authority from the United States secretary of the treasury to qualify as a surety on obligations permitted or required under federal law; or (2) have obtained reinsurance for any liability in excess of $100,000.00 from a reinsurer that is authorized and admitted as are insurer in this state and is the holder of a certificate of authority from the United States secretary of the treasury to qualify as a surety or reinsurer on obligations permitted or required under federal law.

In determining whether the surety or reinsurer holds a valid certificate of authority the County may rely on the list of companies holding certificates of authority as published in the Federal Register covering the date on which the bond is to be executed. If the public works contract is less than $50,000 the performance bond will not be required

as long as the contract provides that payment is not due until the work is completed and accepted by the county. The purpose of a performance bond is for the protection of the government entity and is conditioned on the faithful performance of the work being done in accordance with the plans, specifications and contract documents. The payment bond is for the protection of persons supplying labor and materials to the contractor to ensure payment.

26. **BIDDERS BOND:** All bids shall be accompanied by a certified cashier's check upon a National or State bank in an amount not less than five percent (5%) of the total maximum bid price, payable without recourse to Williamson County, or a bid bond in the same amount from a reliable surety company, as a guarantee that the bidder will enter into a contract and execute performance and payment bonds, as stipulated by item 25 above, within ten (10) days after notice of award of contract to him. Bid guarantees must be submitted in the same sealed envelope with the bid. Bids submitted without check or bid bonds will not be considered.
Bidders are not required to use Surety 2000 for your Bid Bond supplier, however; when bidding electronically in Bidsync and using Surety 2000, you may import your bid bond directly from the Surety 2000 web site. To use a different bond provider you MUST:

    1. Scan the completed bond
    2. Download the completed bond to the line item of this bid with your other required documents.

    Bid bonds must be attached to the line item of the electronic bid OR submitted in the same sealed envelope with a paper Bid.

27. All bid securities will be returned to the respective bidders within twenty-five (25) days after bids are opened, except those which the County elects to hold until the successful bidder has executed the contract. Thereafter, all remaining securities, including security of the successful bidder, will be returned within sixty (60) days.

28. Prior to submitting any bid, bidders are required to read the plans, specifications, bid, contract and bond forms carefully; to inform themselves by their independent research, test and investigation of the difficulties to be encountered and judge for themselves of the accessibility of the work and all attending circumstances affecting the cost of doing the work and the time required for its completion and obtain all information required to make an intelligent bid.

29. Should the bidder find discrepancies in, or omissions from the plans, specifications, or other documents, or should he/she be in doubt as to their meaning, he/she should notify at once the Project Engineer and may obtain clarification or addendum prior to submitting any bid.

30. In case of ambiguity or lack of clarity in the statement of prices in the bids, the county reserves the right to consider the most favorable analysis thereof, or to reject the bid. Unreasonable (or unbalanced) prices submitted in a bid may result in rejection of such bid or other bids.

31. Award of the contract, if awarded, will be made within sixty (60) days after opening of the bids and no bidder may withdraw his bid within said sixty (60) day period of time unless a prior award is made.

32. Within ten (10) days of written notification of award of the contract, the bidder shall execute and furnish to the County the performance bond, or letter of credit if applicable, and payment bond as required by item 25 above; and the Certificate of Insurance showing coverages in accordance with contract documents. Failure to execute contract, Bonds and Certificate of Insurance shall be just cause for the annulment of the award. In case of the annulment of the award, the bid guarantee shall become the property of Williamson County, not as a penalty, but as a liquidated damage.

33. Any quantities given in any portion of the contract documents, including the plans, are estimates only, and the actual amount of work required may differ somewhat from the estimates. The basis for the payment shall be the actual amount of work done and/or material furnished.

34. **THE TEXAS HAZARD COMMUNICATION ACT**, Chapter 502 of the Health and Safety Code, Sec. 502.006, states that a chemical manufacturer or distributor shall provide appropriate Material Safety Data Sheets (MSDS) to employers who acquire hazardous chemicals in this state with each initial shipment and with the first shipment after a MSDS is updated. The MSDS must conform to the most current requirements of the OSHA standard in 29 CFR 1910.1200. By submitting your bid to the County you are acknowledging that this regulation is a part of this bid and that you will provide appropriate MSDS with each initial shipment and with the first shipment after a MSDS is updated.

35. **THE WILLIAMSON COUNTY HAZARD COMMUNICATION PROGRAM POLICY** Under Revised Texas Hazard Communication Act (THCA) of 1993 states that it is the responsibility of all contractor/sub-contractors who bring hazardous chemicals onto county property to provide appropriate MSDS to the county at the work site. When exposure to a hazardous chemical is expected each contractor/sub-contractor shall be responsible for the appropriate training of their employees. For a copy of the Williamson County Hazard Communication Program Policy contact the Williamson County Unified Road & Bridge System Safety/Training Coordinator at 512/930-3330. By submitting your bid to the County you are acknowledging that this policy is a part of this bid and that you will provide appropriate MSDS to the county work site and provide for appropriate training as applicable.

36. **CERTIFICATE OF INTERESTED PARTIES TEXAS ETHICS COMMISSION (FORM 1295)** As of January 1, 2016, Bidders are responsible for complying with the Texas Government Code Section 2252.908. The law states that the County may not enter into certain contracts with a Bidder unless the Bidder submits a disclosure of interested parties to the County at the time the Bidder submits the signed contract to Williamson County.
    On January 1, 2016, the Texas Ethics Commission made available on its website a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:
    https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm
    The Low Bidder must:
    1. Use the online application to process the required information on Form 1295
    2. Print a copy of the form which will contain a unique certification number
    3. An authorized agent of the Bidder must sign the printed copy of the form
    4. and have the form notarized
    5. the completed Form 1295 and certification of filing must be filed (scanning and emailing form is sufficient) with Williamson County prior to award of the contract by Commissioners Court.

37. Ambiguity, Conflict, or other Errors in the IFB If Bidder discovers any ambiguity, conflict, discrepancy, omission or other error in this IFB, Bidder shall immediately notify Williamson County Purchasing Department of such error in writing and request modification or clarification of the document. Modifications will be made by issuing Addenda. If the Bidder fails to notify Williamson County prior to the date and time fixed for submission of Bids of an error or ambiguity in the IFB known to Bidder, or an error or ambiguity that reasonably should have been known to Bidder, then Bidder shall be deemed to have waived the error or ambiguity or its later resolution. Williamson County may also modify the IFB, no later than 48 hours prior to the date and time fixed for submission of Bids, by issuance of an Addendum. All addenda will be numbered consecutively, beginning with 1.

SECTION 4
BID FORM, BID AFFIDAVIT, BIDDER REFERENCES, & CONFLICT OF INTEREST QUESTIONNAIRE

ALL REQUIRED DOCUMENTS MUST BE FILLED OUT AND SUBMITTED WITH BID

www.bidsync.com

FOLLOWING CONTRACT AWARD REQUIRED DOCUMENTS WILL BE INSERTED IN THIS SECTION

SECTION 5
STANDARD FORM OF AGREEMENT

STANDARD FORM OF AGREEMENT

STATE OF TEXAS

WILLIAMSON COUNTY

THIS STANDARD FORM OF AGREEMENT (the "Agreement") is by and between WILLIAMSON COUNTY, TEXAS, a political subdivision of the State of Texas (hereinafter called "County") and _____ (hereinafter called "Contractor").

The County and Contractor, in consideration of the mutual covenants hereinafter set forth, agree as follows:

Article 1. Work

Contractor shall complete all Work as specified or indicated in the Contract Documents. The "Project" is generally described as follows:

Project No. **1710-194 – NEENAH AVENUE WIDENING**

Article 2. Engineer of Record

The Project has been designed by **Stantec Consulting Services, Inc.**, who is hereinafter called the "Engineer of Record" and who is to act as the County's design professional.

Article 3. Contract Time

The Work shall be Substantially Completed in **350** calendar days (the "Contract Time"). Following Substantial Completion, the Contractor shall proceed expeditiously with adequate forces and shall achieve Final Completion within the time specified in the Special Conditions.

Article 4. Contract Price

County shall pay Contractor for completion of the Work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined pursuant to paragraph 4.1 below (the "Contract Price"):

4.1 For all Unit Price Work, an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the estimated quantity of that item as indicated in the Bid Form, and as totaled below:

TOTAL OF ALL UNIT PRICES_____ $_____(dollars)
(insert words)

As provided in the General Conditions, estimated quantities are not guaranteed, and determinations of actual quantities and classification are to be made by the Engineer of Record.

Article 5. Contractor's Representations

In order to induce County to enter into this Agreement, Contractor makes the following representations:

5.1 Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents including the "technical data".

5.2 Contractor has visited the site and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance or furnishing of the Work.

5.3 Contractor is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.

5.4 Contractor has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site which have been identified. Contractor acknowledges that such reports and drawings are not Contract Documents and may not be complete for Contractor's purposes. Contractor acknowledges that the County and Engineer of Record do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Contract Documents with respect to Underground Facilities at or contiguous to the site.

5.5 Contractor has correlated the information known to Contractor, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.

5.6 Contractor has given Engineer of Record written notice of all conflicts, errors, ambiguities or discrepancies that Contractor has discovered in the Contract Documents and the written resolution thereof by Engineer of Record is acceptable to Contractor, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

5.7 Contractor represents and agrees that there are no obligations, commitments, or impediments of any kind that will limit or prevent performance of its obligations under the Contract Documents.

5.8 Contractor warrants, represents, and agrees that if (i) it is a corporation or limited liability company, then it is a corporation duly organized, validly existing and in good standing under the laws of the State of Texas, or a foreign corporation or limited liability company duly authorized and in good standing to conduct business in the State of Texas, that it has all necessary corporate power and has received all necessary corporate approvals to execute and deliver this Agreement, and the individual executing the Agreement on behalf of Contractor has been duly authorized to act for and bind Contractor; or (ii) if it is a partnership, limited partnership, or limited liability partnership, then it has all necessary partnership power and has secured all necessary approvals to execute and deliver this Agreement and perform all its obligations under the Contract Documents; and the individual executing this Agreement on behalf of Contractor has been duly authorized to act for and bind Contractor.

5.9 Neither the execution and delivery of this Agreement by Contractor nor the performance of its obligations under the Contract Documents will result in the violation of any provision, if a corporation, of its articles of incorporation or by-laws, if a limited liability company, of its articles of organization or regulations, or if a partnership, by any partnership agreement by which Contractor is bound, or any agreement by which Contractor is bound or to the best of the Contractor's knowledge and belief, will conflict with any order or decree of any court or governmental instrumentality relating to Contractor.

5.10 Except for the obligation of the County to pay Contractor the Contract Price pursuant to the terms of the Contract Documents, and to perform certain other obligations pursuant to the terms and conditions explicitly set forth in the Contract Documents, County shall have no liability to Contractor or to anyone claiming through or under Contractor by reason of the execution or performance of this Agreement. Notwithstanding any obligation or liability of County to Contractor, no present or future partner or affiliate of County or any agent, officer, director, or employee of County, or of the various departments comprising Williamson County, or anyone claiming under County has or shall have any personal liability to Contractor or to anyone claming through or under Contractor by reason of the execution or performance of this Agreement.

Article 6. Contract Documents

The "Contract Documents," which comprise the entire agreement between the County and Contractor concerning the Work, consist of the following:

6.1 This Standard Form of Agreement

6.2 Performance Bond

6.3 Payment Bond

6.4 Maintenance Bond

6.5 Certificate of Insurance

6.6 Wage Rates

6.7 General Conditions

6.8 Special Conditions

6.9 Technical Specifications

6.10 Plan Drawings

6.11 Addenda numbers _____ to _____, inclusive

6.12 Contractor's Bid Affidavit and Bid Form

6.13 Documentation submitted by Contractor prior to Notice of Award.

6.14 The following which may be delivered or issued after the Effective Date of the Agreement and are not attached hereto: All Written Amendments and other documents amending, modifying or supplementing the Contract Documents pursuant to applicable sections in the General Conditions.

The documents listed in paragraphs 6.2 et seq. above are attached to this Agreement (except as expressly noted otherwise above).

There are no Contract Documents other than those listed above in this Article 6. The Contract Documents may only be amended, modified or supplemented as provided in the General Conditions.

Article 7. Miscellaneous

7.1 Terms used in this Agreement, which are defined in the General Conditions, will have the meanings indicated in the General Conditions.

7.2 No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that

may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

7.3 The County and Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect to all covenants, agreements and obligations contained in the Contract Documents.

7.4 Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the County and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken position.

7.5 Each party to this Agreement hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this Agreement shall lie exclusively in Williamson County, Texas. Furthermore, this Agreement shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

7.6 The parties to this Agreement agree that during the performance of the services under this Agreement they will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The parties to this Agreement will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; termination; rates of pay or other forms of compensation, and selection for training, including apprenticeship.

7.7 This Agreement is for the sole and exclusive benefit of the parties hereto, and nothing in this Agreement, express or implied, is intended to confer or shall be construed as conferring upon any other person any rights, remedies or any other type or types of benefits.

7.8 Each party to this Agreement acknowledges that it and its counsel have reviewed this Agreement and that the normal rules of construction are not applicable and there will be no presumption that any ambiguities will be resolved against the drafting party in the interpretation of this Agreement.

7.9 Each party to this Agreement, in the performance of this Agreement, shall act in an individual capacity and not as agents, employees, partners, joint ventures or

associates of one another. The employees or agents of one party shall not be deemed or construed to be the employees or agents of the other party for any purposes whatsoever.

7.10 Nothing in this Agreement shall be deemed to waive, modify or amend any legal defense available at law or in equity to County, its past or present officers, employees, or agents or employees, nor to create any legal rights or claim on behalf of any third party. County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

7.11 To the extent, if any, that any provision in this Agreement is in conflict with Tex. Gov't Code 552.001 et seq., as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood and agreed that County, its officers and employees may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to County as to whether or not the same are available to the public. It is further understood that County's officers and employees shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

7.12 County and Contractor have signed this Agreement in triplicate. One counterpart each has been delivered to the County, Contractor and Engineer of Record. All portions of the Contract Documents have been signed, initialed or identified by County and Contractor or identified by Engineer of Record on their behalf.

7.13 This Agreement and the Contract Documents represent the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either oral or written. This Agreement may be amended only by written instrument signed by each party to this Agreement. NO OFFICIAL, EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE COUNTY HAS ANY AUTHORITY, EITHER EXPRESS OR IMPLIED, TO AMEND THIS CONTRACT, EXCEPT PURSUANT TO SUCH EXPRESS AUTHORITY AS MAY BE GRANTED BY THE WILLIAMSON COUNTY COMMISSIONERS COURT.

This Agreement will be effective on _____, 20_____ (which is the "Effective Date" of the Agreement).

COUNTY_____	CONTRACTOR_____
By:_____	By: _____
Dan A. Gattis, Williamson County Judge	Title: _____
	[CORPORATE SEAL]
Attest_____	Attest_____

SECTION 6
WAGE RATES

WAGE RATES

Contractor must pay all workers not less than the prevailing wage rate for Williamson County, Texas.

General Decision Number: TX150016 01/02/2015 TX16

Superseded General Decision Number: TX20140016

State: Texas

Construction Types: Heavy and Highway

Counties: Atascosa, Bandera, Bastrop, Bell, Bexar, Brazos, Burleson, Caldwell, Comal, Coryell, Guadalupe, Hays, Kendall, Lampasas, McLennan, Medina, Robertson, Travis, Williamson and Wilson Counties in Texas.

HEAVY (excluding tunnels and dams, not to be used for work on Sewage or Water Treatment Plants or Lift / Pump Stations in Bell, Coryell, McClennon and Williamson Counties) and HIGHWAY Construction Projects

Note: Executive Order (EO) 13658 establishes an hourly minimum wage of $10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/02/2015

* SUTX2011-006 08/03/2011

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER (Paving and Structures)	$ 12.56	
ELECTRICIAN	$ 26.35	
FORM BUILDER/FORM SETTER		
Paving & Curb	$ 12.94	
Structures	$ 12.87	
LABORER		
Asphalt Raker	$ 12.12	
Flagger	$ 9.45	

Laborer, Common.....$ 10.50
Laborer, Utility.....$ 12.27
Pipelayer.....$ 12.79
Work Zone Barricade
Servicer.....$ 11.85
PAINTER (Structures).....$ 18.34

POWER EQUIPMENT OPERATOR:
Agricultural Tractor.....$ 12.69
Asphalt Distributor.....$ 15.55
Asphalt Paving Machine.....$ 14.36
Boom Truck.....$ 18.36
Broom or Sweeper.....$ 11.04
Concrete Pavement
Finishing Machine.....$ 15.48
Crane, Hydraulic 80 tons
or less.....$ 18.36
Crane, Lattice Boom 80
tons or less.....$ 15.87
Crane, Lattice Boom over
80 tons.....$ 19.38
Crawler Tractor.....$ 15.67
Directional Drilling
Locator.....$ 11.67
Directional Drilling
Operator.....$ 17.24
Excavator 50,000 lbs or
Less.....$ 12.88
Excavator over 50,000 lbs...$ 17.71
Foundation Drill, Truck
Mounted.....$ 16.93
Front End Loader, 3 CY or
Less.....$ 13.04
Front End Loader, Over 3 CY.$ 13.21
Loader/Backhoe.....$ 14.12
Mechanic.....$ 17.10
Milling Machine.....$ 14.18
Motor Grader, Fine Grade....$ 18.51
Motor Grader, Rough.....$ 14.63
Pavement Marking Machine....$ 19.17
Reclaimer/Pulverizer.....$ 12.88
Roller, Asphalt.....$ 12.78
Roller, Other.....$ 10.50
Scraper.....$ 12.27
Spreader Box.....$ 14.04
Trenching Machine, Heavy....$ 18.48

Servicer.....$ 14.51

Steel Worker
Reinforcing.....$ 14.00
Structural.....$ 19.29

TRAFFIC SIGNAL INSTALLER

```
     Traffic Signal/Light Pole
     Worker.....................$ 16.00

TRUCK DRIVER
     Lowboy-Float...............$ 15.66
     Off Road Hauler............$ 11.88
     Single Axle................$ 11.79
     Single or Tandem Axle Dump
     Truck......................$ 11.68
     Tandem Axle Tractor w/Semi
     Trailer....................$ 12.81

WELDER.........................$ 15.97
----------------------------------------------------------------

WELDERS - Receive rate prescribed for craft performing operation to which
welding is incidental.

================================================================


Unlisted classifications needed for work not included within the scope of
the classifications listed may be added after award only as provided in
the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).


----------------------------------------------------------------


The body of each wage determination lists the classification and wage
rates that have been found to be prevailing for the cited type(s) of
construction in the area covered by the wage determination. The
classifications are listed in alphabetical order of "identifiers" that
indicate whether the particular rate is a union rate (current union
negotiated rate for local), a survey rate (weighted average rate) or a
union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted
lines beginning with characters other than "SU" or "UAVG" denotes that the
union classification and rate were prevailing for that classification in
the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation
identifier of the union which prevailed in the survey for this
classification, which in this example would be Plumbers. 0198 indicates
the local union number or district council number where applicable, i.e.,
Plumbers Local 0198. The next number, 005 in the example, is an internal
number used in processing the wage determination. 07/01/2014 is the
effective date of the most current negotiated rate, which in this example
is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the
collective bargaining agreement (CBA) governing this classification and
rate.
```

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response

from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

==========

END OF GENERAL DECISION
&#65533;

SECTION 7
PERFORMANCE BOND

PERFORMANCE BOND

STATE OF TEXAS
COUNTY OF _____

KNOW ALL MEN BY THESE PRESENTS: That _____

_____of the City of _____

County of _____, and State of _____, as principal, and

_____

authorized under the laws of the State of Texas to act as surety on bonds for principals, are held and firmly bound unto Williamson County (County), in the penal sum of

_____Dollars

($_____) for the payment whereof, the said Principal and Surety bind themselves, their heirs, administrators, executors, successors, jointly and severally, by these presents:

WHEREAS, the Principal has entered into a certain written Agreement with the County, dated the _____day of _____, 20_____(the "Agreement"), to which the said Agreement, along with the Contract Documents referenced therein are hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall faithfully perform said Agreement and shall in all respects duly and faithfully observe and perform all and singular the covenants, conditions and agreements in and by the Agreement agreed and covenanted by the Principal to be observed and performed, and according to the true intent and meaning of said Agreement and the Contract Documents hereto annexed, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of Chapter 2253 of the Texas Government Code, as amended and all liabilities on this bond shall be determined in accordance with the provisions of said Chapter to the same extent as if it were copied at length herein.

SURETY, for value received, stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Agreement or to the work performed thereunder, or to the Contract Documents referenced therein, shall in anyway affect the obligations on this bond, and it does hereby waive notice of such change, extension of time, alteration or addition to the terms on the Agreement, or to the work to be performed thereunder.

IN WITNESS WHEREOF, the said Principal and Surety have signed and sealed this instrument this _____ day of _____, 20___.

_____	_____
PRINCIPAL	SURETY
_____	_____
SIGNATURE	SIGNATURE
_____	_____
NAME & TITLE	NAME & TITLE
_____	_____
ADDRESS	ADDRESS
_____	_____
(_____) _____	(_____) _____
PHONE NUMBER	PHONE NUMBER

The name and address of the Resident Agency of Surety is:

_____

_____

(_____) _____	_____
PHONE NUMBER	SIGNATURE OF LICENSED LOCAL RECORDING AGENT appointed to countersign on behalf of Surety (Required by Art. 21.09 of the Insurance Code)

****

I,_____, having executed Bonds
SIGNATURE

for _____ do hereby affirm I have
NAME OF SURETY

verified that said Surety is now certified with Authority from either: (a) the Secretary of the Treasury of the United States if the project funding includes Federal monies; or (b) the State of Texas if none of the project funding is from Federal sources; and further, said Surety is in no way limited or restricted from furnishing Bond in the State of Texas for the amount and under conditions stated herein.

SECTION 8
PAYMENT BOND

PAYMENT BOND

STATE OF TEXAS
COUNTY OF _____

KNOW ALL MEN BY THESE PRESENTS: That _____

_____of the City of _____

County of _____, and State of _____, as Principal (hereinafter referred to as the "Principal"), and

_____
authorized under the laws of the State of Texas to act as Surety on bonds for principals (hereinafter referred to as the "Surety"), are held and firmly bound unto Williamson County, (hereinafter referred to as the "County"), in the penal sum of

_____Dollars

($_____) for the payment whereof, the said Principal and Surety bind themselves, their heirs, administrators, executors, successors and assigns, jointly and severally, by these presents:

WHEREAS, the Principal has entered into a certain written agreement with the County, dated the _____ day of _____, 20_____, to _____

_____ (hereinafter referred to as the "Agreement"), which said Agreement and the Contract Documents incorporated therein are hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall pay all claimants supplying labor and material to him or a subcontractor in the prosecution of the Work provided for in said Agreement, then, this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of Chapter 2253 of the Texas Government Code, as amended and all liabilities on this bond shall be determined in accordance with the provisions of said Chapter to the same extent as if it were copied at length herein.

SURETY, for value received, stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Agreement or to the Work performed thereunder, or to the other Contract Documents accompanying the same, shall in anyway affect its obligation on this bond, and it does hereby waive notice of such change, extension of time, alteration or addition to the terms of the Agreement, or to the work to be performed thereunder or to the other Contract Documents accompanying the same.

IN WITNESS WHEREOF, the said Principal and Surety have signed and sealed this instrument this _____ day of _____, 20___.

_____	_____
PRINCIPAL	SURETY
_____	_____
SIGNATURE	SIGNATURE
_____	_____
NAME & TITLE	NAME & TITLE
_____	_____
ADDRESS	ADDRESS
_____	_____
(_____) _____	(_____) _____
PHONE NUMBER	PHONE NUMBER

The name and address of the Resident Agency of Surety is:

_____

_____

(_____) _____	_____
PHONE NUMBER	SIGNATURE OF LICENSED LOCAL RECORDING AGENT appointed to countersign on behalf of Surety (Required by Art. 21.09 of the Insurance Code)

SECTION 9
MAINTENANCE BOND

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That _____
(NAME OF CONTRACTOR)

_____

as principal, hereinafter called "CONTRACTOR" and _____

_____
(NAME OF SURETY)

a corporation organized under the laws of _____
as Surety, hereinafter called "SURETY", do hereby expressly acknowledge themselves to be held and bound to pay unto WILLIAMSON COUNTY as Obligee, a political subdivision of the State of Texas, hereinafter called "COUNTY", the sum of (20% of total construction contract amount)

_____
(INSERT WORDS)
_____ Dollars ($_____) for the payment of which sum well and truly to be made unto said COUNTY and its successors, said principal and sureties do hereby bind themselves, their assigns, and successors jointly and severally.

This obligation is conditioned, however, that whereas said CONTRACTOR has by written Agreement dated _____ , 20 _____ , entered into an agreement with said COUNTY to build and construct _____

_____

which said Agreement and the Contract Documents therein mentioned and adopted by the COUNTY are hereby expressly made a part thereof as though the same were written and embodied herein.

WHEREAS, under the terms and conditions of the Agreement, specifications and other Contract Documents, it is provided that the CONTRACTOR shall maintain and keep in good repair the Work constructed and/or equipment furnished by it as contemplated by the plan drawings, specifications, and other Contract Documents, and perform for a period of 2 years from the date of acceptance as shown on the "Certificate of Completion" issued by the ENGINEER, or the date of Final Payment by the COUNTY if a separate Certificate of Completion is not issued, all necessary repairs, reconstruction and renewal of any part of said construction, and to furnish the labor and materials to make good and to repair any defective condition growing out of or on account of the breakage or failure of any substance or the improper function of any part of the construction work. The CONTRACTOR shall reimburse the COUNTY for the costs of all engineering and special services required to be furnished by the COUNTY which are directly attributable to the restoration of the constructed work. Said maintenance contemplates the complete restoration of the constructed work to a functional use during the said period as set forth above. It is the intended purpose of this section to require the correction of all defective conditions resulting from materials furnished or work and labor performed by the CONTRACTOR under the conditions prescribed by the Agreement, plans and specifications and other Contract Documents; and in case the CONTRACTOR shall fail or refuse to commence and actively pursue such corrections within ten (10) days after proper written notifications have been furnished to it by the COUNTY, it is agreed that the COUNTY may do said work and supply such materials and the said CONTRACTOR and SURETY herein shall be liable for the payment of all costs thereby incurred.

NOW THEREFORE, if the said CONTRACTOR shall keep and perform its said agreement to maintain said work and keep the same in good repair for the said maintenance period as provided above, then these presents shall be null and void and have no further effect, but if default shall be made by the

CONTRACTOR in the performance of its Agreement to maintain and repair said work, then these presents shall have full force and effect and the COUNTY shall have and recover from the said CONTRACTOR and its sureties damages in the premises, as provided, and it is further understood and agreed that this obligation shall be a continuing one against the principal and sureties hereon, and that successive recoveries may be had hereon for successive breaches until the full amount shall have been exhausted; and it is further understood that the obligation herein to maintain said work shall continue throughout said maintenance period, and the same shall not be changed, diminished, or in any manner affected from any cause during said time.

IN WITNESS WHEREOF, this instrument is executed this _____ day of _____, 20 ____

_____ _____

PRINCIPAL PHONE NO.

_____

SIGNATURE (SEAL)

_____ _____

NAME & TITLE WITNESS OR ATTEST TO SEAL

_____ _____

SURETY PHONE NO.

_____

SIGNATURE (SEAL)

_____ _____

NAME & TITLE WITNESS OR ATTEST TO SEAL

_____

SIGNATURE OF LICENSED LOCAL RECORDING AGENT
appointed to countersign on behalf of Surety

SECTION 10
CERTIFICATE OF INSURANCE

CERTIFICATE OF INSURANCE

TO: DATE:_____

_____ Project No.:_____
(COUNTY)

_____ Type of _____

_____ Project:_____
(ADDRESS)

THIS IS TO CERTIFY THAT _____
(Name and address of insured)

is, at the date of this certificate, insured by this Company with respect to the business operations hereinafter described for the types of Insurance and in accordance with the provisions of the standard policies used by this Company, and further hereinafter described. Exceptions to the standard policy noted on reverse side hereof.

TYPE OF INSURANCE	POLICY NO.	EFFECTIVE	EXPIRES	LIMITS OF LIABILITY	
Workmen's Compensation					
				1 Person	$
Public Liability				1 Accident	$
Contingent				1 Person	$
Liability				1 Accident	$
Property Damage					
Builder's Risk					
Automobile					
Other					

The foregoing Policies (do) (do not) cover all sub-contractors.

Locations Covered:_____

Descriptions of Operations Covered:_____

The above policies either in the body thereof or by appropriate endorsement provide that they may not be changed or canceled by the insurer in less than five days after the insured has received written notice of such change or cancellation.

Where applicable local laws or regulations require more than five days actual notice of change or cancellation to the assured, the above policies contain such special requirements, either in the body thereof or by appropriate endorsement thereto attached.

_____
(Name of Insurer)

By:_____

Phone No. (___) _____ Title:_____

SECTION 11
GENERAL CONDITIONS OF AGREEMENT

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General Conditions of Agreement

1. Definition of Terms

For purposes of the Contract Documents, the following terms shall have the meanings set forth herein:

1.01 The Agreement

The term the "Agreement" shall mean Standard Form of Agreement by and between County and Contractor relating to the Work and the construction of the Project.

1.02 County

Williamson County, Texas, being a political subdivision of the State of Texas, is the entity identified in the Agreement and hereinafter referred to as the "County." Nothing contained in the Contract Documents shall create any contractual or agency relationship between any parties other than the County and the Contractor.

1.03 Department

The "Department" shall mean the Texas Department of Transportation (TxDOT).

1.04 Contractor

The term the "Contractor" shall mean the successful bidder that enters into the Agreement with the County for the construction of the Work and the Project defined by the Contract Documents.

1.05 Engineer

The term the "Engineer" shall mean the County Engineer or the authorized representative of the County Engineer.

1.06 General Engineering Consultant (GEC)

The term the "General Engineering Consultant" or "GEC" shall mean the consulting engineering firm representing and assisting the County in the design, review, and coordination of the design and construction phases of the Project. The GEC shall be responsible for the construction oversight of the Project.

1.07 Construction Observer

The "Construction Observer" or the "Observer" shall mean the County's employee or a contracted consultant who performs construction engineering and inspection services for the Project.

1.08 Construction Representative

The "Construction Representative" shall mean the GEC's designated field representative

during construction of the Project which shall provide for coordination and assistance of the construction observation effort.

1.09 Engineer of Record

The term "Engineer of Record" shall mean the County's design professional, who shall provide professional engineering design services for the Project.

1.10 Contract Documents

The "Contract Documents" shall consist of the Special Conditions, Notice for Bidders, Proposal, the fully executed Agreement, Performance and Payment Bonds, Maintenance Bond, Special Bonds (when required), General Conditions, Technical Specifications or Specifications, Plans and all modifications thereof incorporated in any such documents before the execution of the Agreement and all modifications that are made, in accordance with the Contract Documents, following the execution of the Agreement.

The Contract Documents are complementary, and what is called for by any one shall be as binding as if called for by all. In case of conflict between any of the Contract Documents, priority of interpretation shall be in the following order: Fully Executed Agreement, Performance and Payment Bonds, Maintenance Bond, Special Bonds (if any), Proposal, General Conditions, Special Conditions, Technical Specifications or Specifications, and Plans.

1.11 Subcontractor

The term "Subcontractor", as employed herein, includes only those having a direct contract with the Contractor. It includes one who furnishes material worked to special design according to the plans or specifications of this work, but does not include one who merely furnishes material not so worked.

1.12 Sub-Subcontractor

The term "Sub-Subcontractor" means one who has a direct or indirect contract with a Subcontractor to perform any of the Work at the site. It includes one who furnishes material worked to a special design according to the plans or specifications of this work, but does not include one who merely furnishes material not so worked.

1.13 Written Notice

Written notice shall be deemed to have been duly served if delivered in person to the individual or to an officer of the entity for whom it is intended, or if delivered to or sent by registered mail to the last business address known to it who gives the notice.

1.14 Work

The Contractor shall provide and pay for all materials, machinery, equipment, tools, superintendence, labor, services, insurance, and all water, light, power, fuel, transportation and other facilities necessary for the execution and completion of the work covered by the Contract Documents (collectively known as the "Work"). Unless otherwise specified, all materials shall be new and both workmanship and materials shall be of a good quality. The

Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of materials. Materials or work described in words which, when so applied, have a well-known technical or trade meaning shall be held to refer to such recognized standards.

1.15 Extra Work

The term "Extra Work" as used in the Contract Documents shall be understood to mean and include all work that may be required by the County to be done by the Contractor to accomplish any change, alteration or addition to the Work shown upon the plans, or reasonably implied by the specifications, and not covered by the Contractor's Proposal, except as provided under Section 2.13 "Changes and Alterations" herein.

1.16 Working Day

The term "Working Day" is defined as any day not including Saturdays, Sundays or any legal holidays, in which weather or other conditions, not under the control of the Contractor, will permit construction of the principal units of the Work for a period of not less than seven (7) hours between 7:00 a.m. and 6:00 p.m.

1.17 Calendar Day

The term "Calendar Day" is defined as any day of the week or month, no days being excepted.

1.18 Substantially Completed

The term "Substantially Completed" or "Substantial Completion" shall be understood to mean that all Project Work (or the work for a specified phase of the Project) requiring lane or shoulder closures or obstructions is completed, and traffic is following the lane arrangement as shown on the plans for the finished roadway (or the specified phase of work). Additionally, all pavement construction, resurfacing, traffic control devices, and pavement markings shall be in their final position (or as called for on the plans for the specified phase of work) at such time; provided, however, the Engineer may make an exception as to the permanent pavement markings being in their final position provided that, in the Engineer's sole discretion, the lack of markings does not cause a disruption to traffic flow or an unsafe condition for the traveling public, and work zone pavement markings are in place.

1.19 Notice of Substantial Completion

Notice issued to the Contractor by the Observer or County's Representative acknowledging Substantial Completion of the Project, signifying the end of time charges.

1.20 Certificate of Completion

Certificate issued to the Contractor by the Observer acknowledging "Final Completion" of the Project, as determined by completion of the Punch List, from which time the warranty period for the Project shall begin. The issuance of the Certificate of Completion shall serve as evidence of "Final Completion" and such certificate shall relieve the Contractor of ownership responsibilities for the Project, except for repair of damage caused by the Contractor or by the Contractor's operations to existing facilities or completed and substantially accepted work.

1.21 Certificate of Acceptance

Certificate issued to the Contractor by the County acknowledging final acceptance and purchase of the Project.

1.22 Project

The "Project" shall mean and include the Project defined, described and set forth in the Agreement.

1.23 Contract Time

The "Contract Time" shall mean the amount of time in which the Work shall be Substantially Completed. The number of days allotted for the Contract Time shall be specifically set forth in the Agreement.

1.24 Contract Price

The "Contract Price" shall mean the amount that the County shall pay the Contractor for completion of the Work in accordance with the Contract Documents. The specific amount of the Contract Price shall be determined pursuant to the terms of the Contract Documents.

2. Responsibilities of the Engineer and the Contractor

2.01 County-Observer Relationship

The Observer will be the County's contracted consultant during construction. The duties, responsibilities and limitations of authority of the Observer as the County's representative during construction are as set forth in the Contract Documents and/or the Agreement for Construction Engineering and Inspection Services and shall not be extended or limited without written consent of the County or the Observer. The Observer will advise and consult with the County and the GEC, and all of the County's instructions to the Contractor shall be issued through the Observer.

2.02 Professional Observation by the Construction Observer

The Observer shall be on the jobsite when work is being performed to provide construction engineering inspections of the Work performed by the Contractor. In addition to performing material testing on behalf of the County, the Observer shall review the progress of the executed Work and to determine if such Work meets the essential performance and design features and the technical and functional engineering requirements of the Contract Documents; provided and except, however, that the Observer shall not be responsible, directly or indirectly, for the Contractor's construction means, methods, techniques, sequences, quality, procedures, programs, safety precautions or lack of same incident thereto or in connection therewith. Notwithstanding any other provision of the Contract Documents, the Engineer and the Observer shall not be responsible or liable for any acts, errors, omissions or negligence of the Contractor, any Subcontractor or any of the Contractor's or Subcontractor's agents, servants or employees or any other person, firm or corporation performing or attempting to perform any of the Work.

2.03 Payments for Work

The Observer shall review the Contractor's applications for payment and supporting data, determine the amount owed to the Contractor and recommend, in writing to the GEC for review, payment to the Contractor in such amounts; such recommendation of payment to the Contractor constitutes a representation to the County of the Observer's professional judgment that the Work has progressed to the point indicated to the best of its knowledge, information and belief, but such recommendation of an application for payment to the Contractor shall not be deemed as a representation by the Observer that the Observer has made any examination to determine how or for what purpose the Contractor has used the monies paid on account of the Contract Price.

2.04 Initial Determinations

The Observer initially shall determine all claims, disputes and other matters in question between the Contractor and the County relating to execution or progress of the Work or interpretation of the Contract Documents. The Observer's decision shall be rendered in writing to the GEC for review within a reasonable time, which shall not be construed to be less than ten (10) days.

2.05 Objections

In the event the Observer renders any decision which, in the opinion of either party hereto, is not in accordance with the meaning and intent of the Contract Documents, either party may file with the Observer its written objection to the decision within thirty (30) days of such decision by the Observer, and by such action may reserve the right to submit the question so raised to litigation as hereinafter provided.

2.06 Lines and Grades

Unless otherwise specified, all lines and grades shall be furnished by the Contractor at its own expense. Whenever necessary, construction work shall be suspended to permit performance of this work, but such suspension will be as brief as practicable and the Contractor shall be allowed no extra compensation therefore.

2.07 Contractor's Duty and Superintendence

The Contractor shall give adequate attention to the faithful prosecution and completion of the Work subject of the Contract Documents and shall keep on the Project site, at all times during its progress, a competent Superintendent and any necessary assistants to supervise and direct the Work. The Superintendent shall represent the Contractor in its absence and all directions given to the Superintendent shall be as binding as if given to the Contractor.

The Contractor is and at all times shall remain an independent contractor, solely responsible for the manner and method of completing its work under the Contract Documents, with full power and authority to select the means, method and manner of performing such work, so long as such methods do not adversely affect the completed improvements, the County and the Observer being interested only in the result obtained and conformity of such completed improvements with the Contract Documents.

Likewise, the Contractor shall be solely responsible for the safety of itself, its employees and other persons, as well as for the protection and safety of the improvements being erected and its property or any other person's property, as a result of its operations under the Contract Documents. Engineering construction drawings and specifications, as well as any additional information concerning the Work to be performed passing from or through the Observer, shall not be interpreted as requiring or allowing the Contractor to deviate from the Contract documents, the plans and specifications; the intent of such drawings, specifications and any other such information being to define with specificity the agreement of the parties as to the Work the Contractor is to perform.

Any review of work in process, or any visit or observation and inspection during construction, or any clarification of plans and specifications, by the Observer or the County, or any agent, employee, or representative of either of them, whether through personal observation or inspection on the Project site or by means of approval of shop drawings for temporary construction or construction processes, or by other means or methods, is agreed by the Contractor to be for the purpose of observing the extent and nature of work completed or being performed, as measured against the drawings and specifications constituting the Contract Documents, or for the purpose of enabling the Contractor to more fully understand the plans and specifications so that the completed construction work will conform thereto, and shall in no way relieve the Contractor from full and complete responsibility for the proper performance of its work on the Project, including but not limited to the propriety of means and methods of the Contractor in performing in accordance with the Contract Documents, and the adequacy of any designs, plans or other facilities for accomplishing such performance. Deviation by the Contractor from plans and specifications that may have been in evidence during any such visitation or observation by the Observer, the Engineer, or any of their representatives, whether called to the Contractor's attention or not, shall in no way relieve the Contractor from its responsibility to complete all work in accordance with the Contract Documents.

2.08 Contractor's Understanding

It is understood and agreed that the Contractor has, by careful examination, satisfied itself as to the nature and location of the Work, the conformation of the ground, the character, quality and quantity of the materials to be encountered, the character of equipment and facilities needed preliminary to and during the prosecution of the Work, the general and local conditions, and all other matters which can in any way affect the Work under the Contract Documents.

2.09 Character of Workers

The Contractor agrees to employ only orderly and competent workers, skillful in the performance of the type of work required under the Contract Documents, to do the Work; and agrees that whenever the Observer shall inform it in writing that any workers on the Work are, in its opinion, incompetent, unfaithful or disorderly, or refuse instructions from the Observer in the absence of the Superintendent, such worker shall be discharged from the Work and shall not again be employed on the Work without the Observer's written consent. No illegal alien may be employed by any Contractor for work on this Project, and a penalty

of $500.00 per day will be assessed for each day and for each illegal alien who works for the Contractor at this Project.

2.10 Shop Drawings

The Contractor shall submit to the Observer, with such promptness as to cause no delay in its own work or in that of any other contractor, a minimum of four (4) stamped/reviewed copies, unless otherwise specified, of all shop and/or setting drawings and schedules required for the work of the various trades, and the Engineer of Record shall pass upon them with reasonable promptness, making desired corrections. Note: A single copy of the reviewed drawings shall be retained by the reviewer, the County, and the County's Representative for their records. The Contractor may not submit more than four different shop drawing plans for review in any one week. The Engineer of Record shall return the shop drawings to the Contractor, via the GEC, within three (3) weeks of its having received them, with appropriate comments. The Contractor shall make any corrections required by the Engineer of Record, file with it two (2) corrected copies and furnish such other copies as may be needed. The Engineer of Record's approval of such drawings or schedules shall not relieve the Contractor from responsibility for deviations from drawings or specifications, unless the Contractor has in writing called the Engineer of Record's attention to such deviations at the time of submission, nor shall it relieve Contractor from responsibility for errors of any sort in shop drawings or schedules. It shall be the Contractor's responsibility to fully and completely review all shop drawings to ascertain their effect on its ability to perform the required work in accordance with the Contract Documents and within the time for completion thereof. Any shop drawings which are required for temporary supports must be signed and sealed by an Engineer registered in the State of Texas.

Such review by the Engineer of Record shall be for the sole purpose of determining the sufficiency of said shop drawings or schedules to result in finished improvements in conformity with the plans and specifications, and shall not relieve the Contractor of its duties and obligations, as an independent contractor, set forth in the Contract Documents. It is hereby expressly understood and agreed that the Engineer of Record does not assume any duty to pass upon the propriety or adequacy of such drawings or schedules, or any means or methods reflected thereby, in relation to the safety of either person or property during the Contractor's performance hereunder.

2.11 Preliminary Approval

The Observer shall not have the power to waive the obligations of the Contract Documents for the furnishing by the Contractor of good material, and of its performing good work as herein described, and in full accordance with the Contract Documents. No failure or omission of the Observer to discover, object to or condemn any defective work or material shall release the Contractor from the obligations to fully and properly perform in full accordance with the Contract Documents, including without limitation, the obligation to at once tear out, remove and properly replace any defective work or material at any time prior to final acceptance upon the discovery of said defective work or material; provided, however, that the Observer shall, upon request of the Contractor, inspect and accept or reject any material furnished, and in the event the material has been once accepted by the Observer,

such acceptance shall be binding on the County unless it can be clearly shown that such material furnished does not meet the specifications for this work.

Any questioned work may be ordered to be taken up or removed for re-examination by the Observer, prior to final acceptance, and if found not in accordance with the plans and/or specifications for said work, all expenses relating to the removing, re-examination and replacement shall be solely borne by the Contractor. Otherwise, if the questioned work is found to be in accordance with the plans and/or specifications for said work, the expense thus incurred shall be allowed as Extra Work and shall be paid for by the County; provided, however, where inspection or approval is specifically required by the specifications prior to performance of certain work, should the Contractor proceed with such work without requesting prior inspection or approval, the Contractor shall bear all expense of taking up, removing, and replacing this work if so directed by the Observer.

2.12 Defects and Their Remedies

It is further agreed that if the Work or any part thereof, or any material brought on the site of the Work for use in the Work or selected for the same, shall be deemed by the Observer as unsuitable or not in conformity with the Contract Documents, or the intent thereof, the Contractor shall, after receipt of notice thereof from the Observer, forthwith remove such material and rebuild or otherwise remedy such work so that it shall be in full accordance with the Contract Documents.

2.13 Changes and Alterations

The Contractor further agrees that the County may make such changes and alterations as the County may see fit in the line, grade, form, dimensions, plans or materials for the Work herein contemplated, or any part thereof, either before or after the beginning of the construction, without affecting the validity of the Contract Documents.

If such changes or alterations diminish the quantity of the Work to be done, they shall not constitute the basis for a claim for damages or anticipated profits on the Work that may be dispensed with, except as provided for unit price items under Section 5 “Measurement and Payment”. If the amount of work is increased, and the Work can fairly be classified under the specifications, such increase shall be paid for according to the quantity actually done and at the unit price, if any, established for such work under the Contract Documents, except as provided for unit price items under Section 5 “Measurement and Payment”. Otherwise, such additional work shall be paid for as provided under Extra Work. In the event the County makes such changes or alterations as shall make useless any work already done or material already furnished or used in said work, then the County shall compensate the Contractor for any material or labor so used, and for any actual loss occasioned by such change, due to actual expense incurred in preparation for the Work as originally planned.

3. General Obligations and Responsibilities

3.01 Keeping of Plans and Specifications Accessible and Keeping a Superintendent on the Project Site

The Contractor shall keep one (1) copy of the plans and specifications constantly accessible on the Work, with the latest revisions noted thereon. The Contractor shall give the Work its constant attention to facilitate the progress thereof and shall cooperate with the Construction Observer in every way possible. The Contractor shall designate, to the Construction Observer in writing, the name of a Superintendent, employed by the firm, regardless of how much of the Work may be sublet. The Superintendent will be available at all time. In the event a competent superintendent is not available, the Construction Observer may suspend work until one is available.

3.02 Ownership of Documents

All drawings, specifications and copies thereof furnished by the Engineer of Record shall not be reused on other work, and, with the exception of the signed contract sets, are to be returned to the Engineer of Record on request, at the completion of the work. All models, drawings, specifications and copies thereof are the property of the County.

3.03 Adequacy of Design

It is understood that the County believes it has employed competent engineers and designers. It is therefore agreed that the County and Engineer shall be responsible for the adequacy of the design, sufficiency of the Contract Documents, the safety of the structure and the practicability of the operations of the completed project provided that the Contractor has complied with the requirements of the said Contract Documents, all approved modifications thereof, and additions and alterations thereto approved in writing by the County. The burden of proof of such compliance shall be upon the Contractor to show that it has complied with the said requirements of the Contract Documents, approved modifications thereof, and all approved additions and alterations thereto.

The paper copies of the Contract Documents are considered to be the official contract documents. Any request by the Contractor and use thereof of electronic or digital information, including engineering design and survey files, shall be at the sole risk and legal responsibility of the Contractor. Neither the County nor the Engineer of Record makes any warranty or representation as to the compatibility of the files provided with other software programs, nor shall they be held responsible for subsequent uses of the data by the Contractor or anyone who may obtain the data from the Contractor. **THE CONTRACTOR SHALL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD THE COUNTY ITS AGENTS, EMPLOYEES, OR REPRESENTATIVES AND THE ENGINEER OF RECORD HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS OR COSTS ARISING OUT OF OR RESULTING FROM SUCH USE.** Because data stored on electronic media can deteriorate undetected or be modified undetected, neither the County nor the Engineer of Record can be held liable for the completeness or correctness of the electronic data once in possession of the Contractor.

3.04 Contractor's Responsibility for Work

Until the issuance of the Certificate of Completion for the Project, the Contractor shall have the charge and care thereof and shall take every precaution against injury or damage to any part thereof by the action of the elements or from any other cause, whether arising from the execution or from the non execution of the Work.

In case of suspension of work for any cause, the Contractor shall be responsible for the preservation of all materials. The Contractor shall provide suitable drainage of the roadway in good and passable condition until Final Completion, except as outlined below for opening the roadway to traffic.

Whenever, in the opinion of the Observer, any roadway or portion thereof is in suitable condition for travel, it shall be opened to traffic; provided, however, such opening shall not be held to be, in any way, the final acceptance of the roadway or any part thereof or be held as a waiver of any of the provisions of the Contract Documents. Where it is considered by the Observer to be in the public interest and so ordered in writing by the Observer, any Substantially Completed roadway or portion thereof may be opened to traffic as follows:

(1) When both required by plans, job sequence or the approved traffic control plan, and when the County accepts responsibility for maintaining such portion of the roadway opened to traffic.
(2) When work is suspended for a period of time at the convenience of the County, the County will assume the responsibility for maintaining the entire roadway during the period of suspension; or
(3) When the roadway or portion thereof is opened to traffic during construction operations at the convenience of the County, the County will assume responsibility for the maintenance of the traveled way and shoulders during the period in which it is opened to traffic.

The County, in assuming responsibility for maintenance under this provision, may require the Work to be done in accordance with Section 6, "Extra Work and Claims".

Except for damage by the Contractor or damage caused by the Contractor's operations, the Contractor will not be responsible for repair of damage to existing facilities or damage to completed and accepted work such as guard fence, bridge wings, railing, illumination assemblies, underpass structure, traffic barriers, delineator assemblies, signs, sign bridges, changeable message signs, vehicle impact attenuators (crash cushions and guardrail end treatments) and traffic signals, where such damage is caused by (a) motor-vehicle, seacraft or aircraft that are not being operated by Contractor; (b) railroad-train collision (c) vandalism: (d) Acts of God, such as earthquake, tidal wave, tornado, hurricane, or other cataclysmic phenomena of natures: or (e) Acts of Governmental Authorities.

Upon completion of all work provided for in the Contract Documents for any individual limits, control or project, the Observer may make an inspection, and if the Work is found to be satisfactory, the Contractor will be released from further maintenance on that portion of

the Work, except for damage caused by the Contractor or its operations. Such partial acceptance must be made in writing and shall in no way void or alter any terms of the Contract Documents. Other specific units of the Project will be accepted on an individual basis when shown on the plans or as approved, in writing, by the Observer.

3.05 Protection Against Accident to Employees and the Public

The Contractor shall at all times exercise reasonable precautions for the safety of employees and others on or near the Work and shall comply with all applicable provisions of federal, state, and municipal safety laws and building and construction codes. All machinery and equipment and other physical hazards shall, except where incompatible with federal, state, or municipal laws or regulations, be guarded in accordance with the "Manual of Accident Prevention in Construction" of the Associated General Contractors of America. The Contractor shall provide such machinery guards, safe walkways, ladders, bridges, gangplanks, and other safety devices. The safety precautions actually taken and their adequacy shall be the sole responsibility of the Contractor, acting at its discretion as an independent contractor.

Within 24 hours after Contractor becomes aware of the occurrence of any accident or other event which results in, or might result in, injury to the person or property of anyone, whether or not it results from or involves any action or failure to act by the Contractor or any employee or agent of the Contractor and which arises in any manner from the performance of the Work, the Contractor shall send a written report of such accident or other event to the County and the Observer, setting forth a full and concise statement of the facts pertaining thereto. Such statement shall include a written recordation of the location of the event and the circumstances surrounding the event through photographs, interviewing witnesses, obtaining of medical reports and other documentation that defines the event. The Contractor shall also provide to the County a copy of any and all accident reports received from safety officials or agencies. Copies of such documentation shall be provided to the County and the Observer for their records. The Contractor shall also immediately send the County and the Observer a copy of any summons, subpoena, notice, or other documents served upon the Contractor, its agents, employees, or representatives, or received by it or them, in connection with any matter before any court arising in any manner from the Contractor's performance of the Work.

3.06 Performance and Payment Bonds

Unless otherwise specified, it is further agreed by the parties to the Contract Documents that the Contractor will execute separate performance and payment bonds, each in the sum of one hundred (100%) percent of the total Contract Price, on forms acceptable to County, guaranteeing faithful performance of the Work and the fulfillment of any guarantee required, and further guaranteeing payment to all persons supplying labor and materials or furnishing Contractor with any equipment in the execution of the Work subject of the Contract Documents. It is agreed that the Contractor shall have no rights under the Contract Documents until such performance and payment bonds are furnished to and approved by the County.

Unless otherwise specified, the cost of the premium for the performance and payment bonds shall be included in the price bid by the Contractor for the Work subject of the Contract Documents, and no extra payment for such bonds will be made by the County.

Each bond shall be executed by a corporate surety or corporate sureties, with an A.M. Best rating of "B" or better, duly authorized to do business and to issue surety bonds in the State of Texas. If any surety upon any bond furnished in connection herewith becomes insolvent, or otherwise not authorized to do business in this state, the Contractor shall promptly furnish equivalent security to protect the interests of the County and of persons supplying labor, materials and equipment in the prosecution of the Work subject of the Contract Documents. Furthermore, the surety company underwriting the bonds must be acceptable to the County.

Each bond shall be accompanied by a valid Power of Attorney (issued by the surety company and attached, signed and sealed, with the corporate embossed seal, to the bond) authorizing the agent who signs the bond to commit the company to the terms of the bond, and stating on the face of the Power of Attorney the limit, if any, in the total amount for which such agent is empowered to issue a single bond.

3.07 Protection of Adjoining Property

The Contractor shall take proper means to protect the adjacent or adjoining property or properties, in any way encountered, which might be injured or seriously affected by any process of construction to be undertaken pursuant to the Contract Documents, from any damage or injury by reason of said process of construction; and the Contractor shall be liable for any and all claims for such damage on account of its failure to fully protect all adjoining property. **THE CONTRACTOR AGREES TO INDEMNIFY, SAVE AND HOLD HARMLESS THE COUNTY, THE OBSERVER THE GEC AND THE ENGINEER OF RECORD, AS WELL AS ANY OF THEIR AGENTS, REPRESENTATIVES, OFFICERS OR EMPLOYEES AGAINST ANY CLAIM OR CLAIMS FOR DAMAGES DUE TO ANY INJURY TO ANY ADJACENT OR ADJOINING PROPERTY, ARISING OR GROWING OUT OF THE PERFORMANCE OF THE WORK, BUT ANY SUCH INDEMNITY SHALL NOT APPLY TO ANY CLAIM OF ANY KIND ARISING SOLELY OUT OF THE EXISTENCE OR CHARACTER OF THE WORK.**

3.08 Protection Against Claims of Subcontractors, Laborers, Materialmen and Furnishers of Machinery, Equipment and Supplies

THE CONTRACTOR AGREES THAT IT WILL INDEMNIFY, DEFEND AND SAVE HARMLESS THE COUNTY, THE OBSERVER, THE GEC AND THE ENGINEER OF RECORD, AS WELL AS ANY OF THEIR AGENTS, REPRESENTATIVES, OFFICERS OR EMPLOYEES FROM ALL CLAIMS GROWING OUT THE LAWFUL DEMANDS OF SUBCONTRACTORS, LABORERS, WORKERS, MECHANICS, MATERIALMEN AND FURNISHERS OF MACHINERY, MACHINERY PARTS, EQUIPMENT, POWER TOOLS, AND ALL SUPPLIES, INCLUDING COMMISSARY, INCURRED IN THE FURTHERANCE OF THE PERFORMANCE OF THE WORK SUBJECT OF THE CONTRACT DOCUMENTS. When so desired by the County, the Contractor shall furnish satisfactory evidence that all obligations of the nature hereinabove designated have been paid, discharged or waived. If the Contractor fails to furnish such evidence to County's complete satisfaction, then the County may either pay directly any unpaid bills of which the County has written notice of, or may withhold from

the Contractor's unpaid compensation a sum of money deemed reasonably sufficient to liquidate any and all such lawful claims. When satisfactory evidence is furnished that all liabilities have been fully discharged, payments to the Contractor shall be resumed in full in accordance with the terms of the Contract Documents, but in no event shall the provisions of this sentence be construed to impose any obligation upon the County by either the Contractor or its surety.

3.09 Protection Against Royalties or Patented Invention

The Contractor shall pay all royalties and license fees, and shall provide for the use of any design, device, material or process covered by letter patent or copyright by suitable legal agreement with the patentee or owner. **THE CONTRACTOR SHALL DEFEND ALL SUITS OR CLAIMS FOR INFRINGEMENT OF ANY PATENT OR COPYRIGHT RIGHTS AND SHALL INDEMNIFY AND SAVE HARMLESS THE COUNTY, THE OBSERVER THE GEC AND THE ENGINEER OF RECORD, AS WELL AS ANY OF THEIR AGENTS, REPRESENTATIVES, OFFICERS OR EMPLOYEES FROM ANY LOSS ON ACCOUNT THEREOF, EXCEPT THAT THE COUNTY SHALL DEFEND ALL SUCH SUITS AND CLAIMS AND SHALL BE RESPONSIBLE FOR ALL SUCH LOSS WHEN A PARTICULAR DESIGN, DEVICE, MATERIAL OR PROCESS OR THE PRODUCT OF A PARTICULAR MANUFACTURER OR MANUFACTURERS IS SPECIFIED OR REQUIRED BY THE COUNTY; PROVIDED, HOWEVER, IF CHOICE OF ALTERNATE DESIGN, DEVICE, MATERIAL OR PROCESS IS ALLOWED TO THE CONTRACTOR, THEN THE CONTRACTOR SHALL INDEMNIFY AND SAVE THE COUNTY HARMLESS FORM ANY LOSS ON ACCOUNT THEREOF.** If the material or process specified or required by the County is known by the Contractor to be an infringement, the Contractor shall be responsible for such loss unless it promptly gives such information to the County.

3.10 Laws and Ordinances

The Contractor shall at all times observe and comply with all federal, state and local laws, ordinance and regulations, which in any manner affect the Contract Documents or the Work, and **SHALL INDEMNIFY AND SAVE HARMLESS THE COUNTY, THE OBSERVER THE GEC AND THE ENGINEER OF RECORD, AS WELL AS ANY OF THEIR AGENTS, REPRESENTATIVES, OFFICERS OR EMPLOYEES AGAINST ANY CLAIM ARISING FROM THE VIOLATION OF ANY SUCH LAWS, ORDINANCES, AND REGULATIONS WHETHER BY THE CONTRACTOR OR ITS EMPLOYEES, EXCEPT WHERE SUCH VIOLATIONS ARE CALLED FOR BY THE PROVISIONS OF THE CONTRACT DOCUMENTS.** If the Contractor observes that the plans and specifications are at variance therewith, it shall promptly notify the Observer, in writing, and any necessary changes shall be prepared as provided in the Contract Documents for changes in the Work. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Observer, the Contractor shall bear all costs arising therefrom.

In case the County is a body politic and corporate, the law from which it derives its powers, insofar as the same regulates the objects for which, or the manner in which, or the conditions under which the County may enter into contract, shall be controlling and shall be considered as part of the Contract Documents to the same effect as though embodied herein.

3.11 Assignment and Subletting

The Contractor further agrees that it will retain personal control and will give its personal attention to the fulfillment of the Work strictly in accordance with the Contract Documents and that Contractor will not assign, by Power of Attorney or otherwise, or sublet any right or interest it may have under the Contract Documents without the written consent of the Observer, and that no part or feature of the Work will be sublet to anyone objectionable to the Observer or the County. The Contractor further agrees that the subletting of any portion or feature of the Work, or materials required in the performance of the Work, shall not relieve the Contractor from its full obligations to the County as provided in the Contract Documents.

3.12 Indemnification

THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE COUNTY, THE OBSERVER, THE GEC AND THE ENGINEER OF RECORD AND THEIR RESPECTIVE OFFICERS, AGENTS AND EMPLOYEES, FROM AND AGAINST ALL DAMAGES, CLAIMS, LOSSES, DEMANDS, SUITS, JUDGMENTS AND COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND EXPENSES, ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH DAMAGE, CLAIM, LOSS, DEMAND, SUIT, JUDGMENT, COST OR EXPENSE:

(1) IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH OF ANY PERSON INCLUDING CONTRACTOR'S EMPLOYEES AND ANY SUBCONTRACTOR'S EMPLOYEES AND ANY SUB-SUBCONTRACTOR'S EMPLOYEES, OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY INCLUDING CONTRACTOR'S PROPERTY (OTHER THAN THE WORK ITSELF) AND THE PROPERTY OF ANY SUBCONTRACTOR OF SUB-SUBCONTRACTOR INCLUDING THE LOSS OF USE RESULTING THEREFROM; AND,

(2) IS CAUSED IN WHOLE OR IN PART BY ANY INTENTIONAL OR NEGLIGENT ACT OR OMISSION OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANY SUB-SUBCONTRACTOR OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY ONE OF THEM OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE.

THE OBLIGATION OF THE CONTRACTOR UNDER THIS PARAGRAPH SHALL NOT EXTEND TO THE LIABILITY OF THE OBSERVER, THE ENGINEER, THE GEC, THE ENGINEER OF RECORD THEIR AGENTS OR EMPLOYEES ARISING OUT OF THE PREPARATION OF MAPS, PLANS, REPORTS, SURVEYS, CHANGE ORDERS, DESIGNS OR SPECIFICATIONS, OR THE APPROVAL OF MAPS, PLANS, REPORTS, SURVEYS, CHANGE ORDERS, DESIGNS OR SPECIFICATIONS OR THE ISSUANCE OF OR THE FAILURE TO GIVE DIRECTIONS OR INSTRUCTIONS BY THE OBSERVER, ITS AGENTS OR EMPLOYEES, PROVIDED SUCH IS THE SOLE CAUSE OF THE INJURY OR DAMAGE.

IN ANY AND ALL CLAIMS AGAINST THE COUNTY, THE OBSERVER THE GEC OR THE ENGINEER OF RECORD OR ANY OF THEIR AGENTS OR EMPLOYEES BY ANY EMPLOYEE OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANY SUB-SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM, OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, THE INDEMNIFICATION OBLIGATION UNDER SECTION 3.12 SHALL NOT BE

LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OR TYPE OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR OR ANY SUBCONTRACTOR OR SUB-SUBCONTRACTOR UNDER WORKERS' COMPENSATION ACTS, DISABILITY BENEFIT ACTS OR OTHER EMPLOYEE BENEFIT ACTS.

3.13 Insurance

The Contractor at its own expense shall purchase, maintain and keep in force such insurance as will protect Contractor from claims set forth below which may arise out of or result from the Contractor's operations under the Contract Documents, whether such operations be by itself or by any Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.

(1) Workman's compensation claims, disability benefits and other similar employee benefit acts;

(2) Claims for damages because of body injury, occupational sickness or disease, or death of its employees, and claims insured by usual bodily injury liability coverages;

(3) Claims for damages because of bodily injury, sickness or disease, or death of any person other than its employees, and claims insured by usual bodily injury liability coverages; and

(4) Claims for damages because of injury to or destruction of tangible property, including loss of use resulting therefrom.

CERTIFICATE OF INSURANCE. Before commencing any of the Work, Contractor shall file with the County valid Certificates of Insurance acceptable to the County and the Observer. Such Certificates shall contain a provision that coverages afforded under the policies will not be canceled until at least thirty (30) days prior written notice has been given to the County.

The Contractor shall also file with the County valid Certificates of Insurance covering all Sub-contractors of the Contractor.

3.14 Final Clean-up

Upon the completion of the Work and before acceptance and Final Payment will be made, the Contractor shall clean and remove from the site of the Work all surplus and discarded materials, temporary structures and debris of every kind. The Contractor shall leave the site of the Work in a neat and orderly condition at least equal to that which originally existed. Surplus and waste materials removed from the site of the Work shall be disposed of at locations that are both satisfactory to the Observer and in accordance with the laws pertaining to the disposal of such surplus, debris and waste materials.

In the event the Contractor fails or refuses to clean and remove surplus materials and debris as provided above, the County or the Observer may do so, or cause same to be done, at the

Contractor's expense, and the reasonable cost thereof shall be deducted from any amounts that are owing to the Contractor.

4. Prosecution and Progress

4.01 Time and Order of Completion

It is the meaning and intent of the Contractor Documents, unless otherwise specifically provided, that the Contractor shall be allowed to prosecute its work at such times and seasons, in such order of precedence, and in such manner as shall be most conducive to the economy of construction; provided, however, that the order and the time of prosecution shall be such that the Work shall be substantially completed, as a whole and in part, in accordance with the Contract Documents and within the time of completion designated in the Contractor's bid or proposal; provided, however, when the County is having other work done on the same Project or an adjoining project, either by contract or by its own force, the Observer may direct the time and manner of constructing the Work done under the Contract Documents, so that conflict will be avoided and the construction of the various works and projects being performed for the County shall be harmonized.

Unless otherwise specified, the Contractor shall plan to begin work 10 calendar days from the authorization date to begin work as designated by the Notice to Proceed.

The Contractor shall submit, at such times as may reasonably be requested by the Observer, schedules which shall show the order in which the Contractor proposes to carry on the Work, the dates at which the Contractor will start the several parts of the Work, and estimated dates of completion of the several parts.

Nighttime work is allowed only when shown on the plans or directed or allowed by the Engineer. Nighttime work is defined as work performed from 30 min. after sunset to 30 min. before sunrise.

4.02 Extension of Time

Should the Contractor be delayed in the completion of the Work by any act or neglect of the County, the Observer or the Engineer of Record, or of any employee of either, or by other contractors employed by the County, or by changes ordered in the Work, or by strikes, lockouts, fires, and unusual delays by common carriers, or unavoidable cause or causes beyond the Contractor's control, or by any cause which the Observer shall decide justifies the delay, then an extension of time shall be allowed for completing the Work, sufficient to compensate for the delay, the amount of the extension to be determined by the Observer; provided, however, before the Observer may decide whether or not to allow such an extension of time, the Contractor must tender a prompt written request for an extension of time wherein the Contractor shall give the Observer a written description of the cause of such delay. Adverse weather conditions will not be justification for extension of time on "Calendar Days" contracts.

4.03 Hindrances and Delays

No claims shall be made by the Contractor for damages resulting from hindrances or delays from any cause (except where the Work is stopped by order of and for the convenience of the County) during the progress of any portion of the Work embraced in the Contract Documents. In case said work shall be stopped by the act of the County, then such expense, as in the sole judgment of the Observer is caused by such stoppage of said work, shall be paid by the County to the Contractor.

5. Measurement and Payment

5.01 Quantities and Measurements

No extra or customary measurements of any kind will be allowed. Rather the actual measured and/or computed length, area, solid contents, number and weight only shall be considered, unless otherwise specifically provided otherwise in the Contract Documents.

5.02 Estimated Quantities

The Contract Documents are intended to show clearly all work to be done and material to be furnished hereunder. Where the estimated quantities are shown for the various classes of work to be done and material to be furnished under the Contract Documents, they are approximate and are to be used only as a basis for estimating the probable cost of the Work and for comparing the proposals offered for the Work. It is understood and agreed that the actual amount of work to be done and material to be furnished under the Contract Documents may differ somewhat from these estimates.

Plans quantities may or may not represent the exact quantity of work performed or material moved, handled, or placed during the execution of the Work. For plans quantity measurement items, the estimated bid quantities are designated as final payment quantities, unless revised by the governing specifications. If the actual quantity measured as outlined under “Measurement” varies by more than 5% (or as stipulated under “Measurement” for specific Items) from the total estimated quantity for an individual Item originally shown in the Contract Documents, an adjustment may be made to the quantity of authorized work done for payment purposes. The party requesting the adjustment will provide field measurements and calculations showing the revised quantity. When approved, this revised quantity will constitute the final quantity for which payment will be made. Payment for revised quantity will be made at the unit price bid for that Item, except as provided for in the Contract Documents. When quantities are revised by a change in design approved by the County, by change order, or to correct an error on the plans, the plans quantity will be increased or decreased by the amount involved in the change, and the 5% variance will apply to the new plans quantity.

Where payment is based on the unit price method, the Contractor agrees that it will make no claim for damages, anticipated profits or otherwise on account of any differences which may be found between the quantities of work actually done, the material actually furnished under the Contract Documents and the estimated quantities contemplated and contained in the proposal; provided, however, that in case the actual quantity of any major item should

become as much as twenty-five percent (25%) more than or twenty-five percent (25%) less than the estimated or contemplated quantity for such items, then either party to the Agreement, upon demand, shall be entitled to revised consideration upon the portion of the Work above or below twenty-five percent (25%) of the estimated quantity.

A "Major Item" shall be construed to be any individual bid item incurred in the proposal that has a total cost equal to or greater that five percent (5%) of the total contract cost, computed on the basis of the proposal quantities and the contract unit prices.

Any revised consideration is to be determined by agreement between the parties, otherwise by the terms of the Contract Documents, as provided under Section 6.03 "Extra Work".

5.03 Price of Work

In consideration of the furnishing of all the necessary labor, equipment and material, and the completion of all of the Work by the Contractor, and on the completion of all of the Work and on the delivery of all material in full conformity with the specifications and stipulations contained in the Contract Documents, the County agrees to pay the Contractor the Contract Price that is set forth in the Agreement. The Contractor hereby agrees to receive such Contract Price in full for furnishing all material and all labor required for the Work, also for all expense incurred by Contractor, and for well and truly performing the same and the whole thereof in the manner with and in accordance to the Contract Documents.

5.04 Partial Payments

On or before the first Wednesday of each month, the Contractor shall submit to the Observer a statement showing the total value of the Work performed up to and including the last day of the preceding month. The statement shall also include the value of all sound materials delivered on the job site and to be included in the Work and all partially completed work whether bid as a lump sum or a unit item which, in the opinion of the Observer, is acceptable. The Observer shall either examine and approve by signature or modify and approve such modified statement.

The County shall then pay the Contractor, within 30 days of the statement submittal, the total amount of the approved statement, less ten percent (10%) of the amount thereof, which ten percent (10%) shall be retained until Final Payment, and further less all previous payments and all further sums that may by retained by the County under the terms of the Contract Documents and/or under state or federal law. It is understood, however, that in case the whole work be near to completion and some unexpected and unusual delay occurs due to no fault or neglect on the part of the Contractor, then the County may, upon written recommendation of the Observer, pay a reasonable and equitable portion of the retained percentage to the Contractor; or the Contractor, at the County's option, may be relieved of the obligation to fully complete the Work and, thereupon, the Contractor shall receive payment of the balance due Contractor under the contract subject to the terms and conditions stated in the Contract Documents.

(1) When work progress is fifty percent (50%) complete, as determined by the value of the work completed to date against the original or revised contract amount, whichever is greater, the County may reduce the amount retained to five percent (5%) of the value of all work satisfactorily complete to date, including the value paid for materials on hand, provided, in the sole opinion of the Observer, the Contractor is making satisfactory progress toward completion of the project in a timely manner and there is no other cause to retain a greater percentage.
(2) Upon issuance of the NOTICE OF SUBSTANTIAL COMPLETION and agreement to final project quantities, the percent retained may be further reduced, at the discretion of the Engineer and the Observer, to two percent (2%) of the total value of all work completed to date. This amount shall be retained until Final Payment and close out of the project.

5.05 Punch List

The Contractor shall notify the Observer in writing when, in the Contractor's opinion, the Work has been "Substantially Completed" and when so notifying the Observer, the Contractor shall furnish to the Observer, in writing, a detailed list of unfinished work, also known as the Punch List. The Observer will review the Punch List and will add any items that the Contractor failed to include on said list. The fact that a structure or facility has been "Substantially Completed" shall not excuse the Contractor from performing all of the Work undertaken, whether such work is of a minor or major nature. Furthermore, the Contractor shall remain obligated to fully complete the Work and perform its obligations under the Contract Documents after the Work has been Substantially Completed.

5.06 Final Completion and Acceptance

The Contractor shall have a specified time period for completion of the Punch List items, as set forth in Section XI of the Special Conditions, "Completion of Work on Time." Within ten (10) days after the Contractor has given the Observer written notice that the Punch List has been completed, the Observer shall inspect the Work and within said time, if the Work is found to be completed in accordance with the Contact Documents, the Observer shall issue to the Contractor its Certificate of Completion. In the event the Punch List has not been completed, the Observer shall advise the Contractor, in writing, of the Observer's basis for deeming the Punch List incomplete. Following the Contractor's receipt of the Observer's notice that the Punch List is incomplete, the Contractor shall complete the remaining items prior to the expiration of the above referenced specified time period for completion of the Punch List items. Upon satisfactory completion of the Punch List and the issuance of the Certificate of Completion, it shall be the Contractor's responsibility to submit the contract close-out documents, which shall include the record drawings, maintenance bond and Affidavit of All Bills Paid, and thereupon it shall be the duty of the County to issue a Certificate of Acceptance (Final Acceptance) to the Contractor.

5.07 Final Payment

Upon the issuance of the Notice of Substantial Completion, the Observer shall proceed to make final measurements and prepare final statement for the value of all work performed and materials furnished under the terms of the Contract Documents and shall certify same to the

County, and, then, Final Payment shall be made to the Contractor. At the County's sole discretion, this payment may include payment for work remaining to be performed in association with the removal of temporary erosion controls or the establishment of permanent stabilization measures. On or after the 30th day, and before the 35th day after the date of the Certificate of Acceptance, the balance due the Contractor under the terms of the Contract Documents shall be paid. Neither the Certificate of Acceptance nor the Final Payment, nor any provision in the Contract Documents, shall relieve the Contractor of the obligation for fulfillment of any warranty which may be required.

5.08 Payments Withheld

The County may, on account of subsequently discovered evidence, withhold or nullify the whole or part of any certificate to such extent as may be necessary to protect itself from loss on account of:

(a) Defective work not remedied or other obligations hereunder not completed.
(b) Claims filed or reasonable evidence indicating the probable or potential filing of claims.
(c) Failure of the Contractor to make payments properly to Subcontractors or for material or labor.
(d) Damage to the County or another contractor's work, material or equipment.
(e) Reasonable doubt that the Work can be completed for the unpaid balance of the contract amount or Contract Price.
(f) Reasonable indication that the Work will not be completed within the contract time.
(g) Other causes affecting the performance of the Work subject of the Contract Documents.

When the above grounds are removed or the Contractor provides a surety bond satisfactory to the County, which will protect the County in the amount withheld, payment shall be made for amounts withheld because of them.

5.09 Delayed Payments

Should the County fail to make payment to the Contractor of the sum named in any partial or final statement, when such payment is due, then the County shall pay to the Contractor, in addition to the sum shown as due by such statement, interest thereon in accordance with Texas Government Code Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one percent (1%); and (2) the prime rate published in the Wall Street Journal on the first day of July of the preceding fiscal year that does not fall on a Saturday or Sunday. County's payment of the amount due plus said interest shall fully liquidate any injury to the Contractor growing out of such delay in payment. It is expressly agreed that delay by the County in making payment to the Contractor of the sum named in any partial or final statement shall not constitute, on the part of the County, a breach under the Contract Documents, nor shall it serve as an abandonment by the County. Furthermore, any delay by the County in making payment to the Contractor of the sum named in any partial or final statement shall not, to any

extent or for any time, relieve the Contractor of its obligations to fully and completely perform pursuant to the terms of the Contract Documents.

6. Extra Work and Claims

6.01 Change Orders

Without invalidating the Agreement or any terms of the Contract Documents, the County may, at any time or from time to time, order additions, deletions or revisions to the Work. Any such additions, deletions or revisions to the Work may only be effectuated and authorized by written Change Order. The said written Change Order shall be prepared by the GEC for execution by the County and the Contractor. The Change Order shall set forth the basis for any change in Contract Price, as hereinafter set forth in Section 6.03, Extra Work, and for any change in contract time which may result from the change.

In the event the Contractor shall refuse to execute a Change Order which has been prepared by the GEC and executed by the County, the GEC may, in writing, instruct the Contractor to proceed with the Work as set forth in the Change Order and the Contractor shall thereafter proceed with such work. The Contractor may make claim against the County for Extra Work involved under the Change Order, as hereinafter provided.

6.02 Minor Changes

The Observer may authorize minor changes in the Work which are not inconsistent with the overall intent of the Contract Documents and which do not involve an increase in Contract Price. If the Contractor believes that any minor change or alteration authorized by the Observer involves Extra Work which entitles it to an increase in the Contract Price, the Contractor shall make written request to the Observer for a written Field Order. For purposes of this section, a "Field Order" shall mean the Contractor's cost proposal for the Extra Work that the Contractor believes would increase the Contract Price.

In such case, the Contractor, by copy of its communication to the Observer or by separate writing, shall advise the County of its request to the Observer for a written Field Order. The Contractor's notice to the County shall inform the County that the work subject of the written Field Order may result in an increase in the Contract Price.

Any request by the Contractor for a change in Contract Price shall be made prior to commencing the work covered by the proposed change.

6.03 Extra Work

It is agreed that the basis of compensation to the Contractor for work either added or deleted by a change order or for which a claim for Extra Work is made shall be determined by the unit prices upon which the Work and Project was bid to the extent such work can be fairly classified within the various work item descriptions. For work that cannot be fairly classified within the said various work item descriptions, the basis of compensation to the Contractor

for work either added or deleted by a change order or for which a claim for Extra Work is made shall be determined by one or more of the following methods:

Method (A)
By agreed unit prices; or

Method (B)
By agreed lump sum; or

Method (C)
If neither Method (A) nor Method (B) is agreed upon before the Extra Work is commenced, then the Contractor shall be paid the "actual field cost" of the Work, plus fifteen percent (15%).

In the event said Extra Work is performed and paid for under Method (C), then the provisions of this paragraph shall apply and the "actual field cost" is hereby defined to include the cost to the Contractor of all workmen, such as foremen, timekeepers, mechanics and laborers, and materials, supplies, trucks, rentals on machinery and equipment, for the time actually employed or used on such Extra Work, plus actual equipment, for the time actually employed or used on such Extra Work, plus actual transportation charges necessarily incurred, together with all power, fuel, lubricants, water and similar operating expenses, also all necessary incidental expenses incurred directly on account of such Extra Work, including Social Security, Old Age Benefits and other payroll taxes, and a rateable proportion of premiums on performance and payment bonds and maintenance bonds, public liability and property damage and workers' compensation, and all other insurance as may be required by any law or ordinance, or directed or agreed to by the County. The Observer may direct the form in which accounts of the "actual field cost" shall be kept and the records of these accounts shall be made available to the Observer. The Observer or the County may also specify, in writing before the Extra Work commences, the method of doing the Extra Work and the type and kind of machinery and equipment to be used; otherwise these matters shall be determined by the Contractor. Unless otherwise agreed upon, the prices for the use of machinery and equipment shall be determined by using one hundred percent (100%), unless otherwise specified, of the latest schedule of Equipment ownership Expense adopted by the Associated General Contractors of America. Where practicable the terms and prices for the use of machinery and equipment shall be incorporated in the written Extra Work order. The fifteen percent (15%) of the "actual field cost" to be paid the Contractor shall cover and compensate Contractor for its profit, overhead, general superintendence and field office expense, and all other elements of cost and expense not embraced within the "actual field cost" as herein defined, save that where the Contractor's camp or field office must be maintained primarily on account of such Extra Work; then the cost to maintain and operate the same shall be included in the "actual field cost."

No claim for Extra Work of any kind will be allowed unless ordered, in writing, by the Observer. In case any orders or instructions, either oral or written, appear to the Contractor to involve Extra Work for which Contractor should receive compensation or an adjustment in

the construction time, Contractor shall make written request to the Observer for written order authorizing such Extra Work. Should a difference of opinion arise as to what does or does not constitute Extra Work, or as to the payment therefor, and the Observer insists upon its performance, the Contractor shall proceed with the Work after making written request for written order and shall keep an accurate account of the "actual field cost" thereof, as provided under Method (C).

6.04 Time of Filing Claims

The County and Contractor hereby agree and acknowledge that all questions of dispute or adjustment presented by the Contractor shall be in writing and filed with the Observer within thirty (30) days after the Observer has given any directions, order or instruction to which the Contractor desires to take exception. The Observer shall reply within thirty (30) days to such written exceptions by the Contractor and render the Observer's final decision in writing. In case the Contractor should appeal from the Observer's decision, the Contractor may file with the County its objection. It is further agreed that the acceptance by the Contractor of the Final Payment shall serve as a bar to any claims that the Contractor may have for matters arising prior to or after the Contractor's acceptance of the Final Payment.

6.05 Continuing Performance

The Contractor shall continue performance of the Work during all disputes or disagreements with the County. The production or delivery of goods, the furnishing of services and the construction of projects or facilities shall not be delayed, prejudiced or postponed pending resolution of any disputes or disagreements, except as the County may otherwise agree in writing.

7. Abandonment of Contract

7.01 Abandonment by Contractor

In case the Contractor should abandon and fail or refuse to resume work within ten (10) days after written notification from either the County or the Observer, or if the Contractor fails to comply with the orders of the Observer when such orders are consistent with the Contract Documents, then and in such case where performance bonds exist, the appropriate sureties on these bonds shall be provided with a notice of abandonment and notice for completion whereby (i) the sureties are notified of the Contractor's abandonment or Contractor's failure or refusal to resume work; and (ii) the sureties are directed to complete the Work. A copy of the notice of abandonment and notice for completion shall be delivered to the Contractor.

After receiving a copy of the above described notice of abandonment and notice for completion, the Contractor shall not remove from the Project any machinery, equipment, tools, materials or supplies that then currently exist on the Project site, but the same, together with any materials and equipment under contract for the Work, may be held for use on the Project by the County or the surety on the performance bond, or another contractor in completion of the Work; and the Contractor shall not receive any rental or credit therefor (except when used in connection with Extra Work, where credit shall be allowed as provided for under Section 6, Extra Work and Claims, herein), it being understood that the use of such

equipment and materials will ultimately reduce the cost to complete the Work and be reflected in the final settlement.

Where there is no performance bond provided or in case the surety should fail to commence compliance within ten (10) days after service of the herein above provided notice of abandonment and notice for completion, then the County may provide for completion of the Work in either of the following elective manners:

(1) The County may thereupon employ such force of men and use such machinery, equipment, tools, materials and supplies as the County may deem necessary to complete the Work and charge the expense of such labor, machinery, equipment, tools, materials and supplies to the Contractor, and expense so charged shall be deducted and paid by the County out of such monies as may be due, or that may thereafter at any time become due to the Contractor under and by virtue of the Contract Documents. In case such expense is less than the sum which would have been payable under the Contract Documents if the same had been completed by the Contractor, then the Contractor shall receive the difference. In case such expense is greater than the sum which would have been payable under the Contract Documents if the same had been completed by the Contractor, then the Contractor and/or its surety shall pay the amount of such excess to the County, or

(2) The County, under sealed bids, after five (5) days notice published one or more times in a newspaper having general circulation in the area of the location of the Project, may let a contract for the completion of the Work under substantially the same terms and conditions which are provided in the Contract Documents. In case there is any increase in cost to the County under the new contract as compared to what would have been the cost under the Contract Documents, such increase shall be charged to the Contractor and the surety shall be and remain bound therefor. However, should the cost to complete any such contract prove to be less than what would have been the cost to complete under the Contract Documents, the Contractor and/or its surety shall be credited therewith.

When the Work shall have reached Final Completion, the Contractor and its surety shall be so notified and Certificates of Completion and Acceptance, as provided in Section 5.06 herein above, shall be issued. A complete itemized statement of the contract accounts, certified by the Observer as being correct, shall then be prepared and delivered to the Contractor and its surety, whereupon the Contractor and/or its surety, or the County as the case may be, shall pay the balance due as reflected by said statement within fifteen (15) days after the date of such Certificate of Completion.

In the event the statement of accounts shows that the cost to complete the Work is less than that which would have been the cost to the County had the Work been completed by the Contractor under the terms of the Contract Documents, or when the Contractor and/or its surety shall pay the balance shown to be due by them to the County, then all machinery, equipment, tools, materials or supplies left on the site of the Project shall be turned over to the Contractor and/or its surety.

Should the cost to complete the Work exceed the exceed the amount the County would have been obligated to pay the Contractor had the Work been completed by the Contractor under the terms of the Contract Documents, and should the Contractor and/or its surety fail to pay the amount due the County within the time designated hereinabove, and should there remain any machinery, equipment, tools, materials or supplies on the site of the Project, notice thereof, together with an itemized list of such equipment and materials, shall be mailed to the Contractor and its surety at the respective addresses designated in the Contract Documents. After properly tendering such notice, such property shall be held at the risk of the Contractor and its surety subject only to the duty of the County to exercise ordinary care to protect such property. After fifteen (15) days from the date of said notice, the County may sell such machinery, equipment, tools, materials or supplies and apply the net sum derived from such sale to the credit of the Contractor and its surety. Such sale may be made at either public or private sale, with or without notice, as the County may elect. The County shall release, to their proper owners, any machinery, equipment, tools, materials, or supplies, which remain on the Project and which belong to persons other than the Contractor or its surety. The books on all operations provided herein shall be opened to the Contractor and its surety.

7.02 Abandonment by the County

In the event that the County should fail, within ten (10) days after receiving written notification from the Contractor, to comply with the terms of the Contract Documents, then the Contractor may suspend or wholly abandon the Work, and may remove therefrom all machinery, tools and equipment, and all materials on the Project site that have not been included in payments to the Contractor and have not been wrought into the Work. Thereupon, the Observer shall make an estimate of the total amount earned by the Contractor, which estimate shall include the value of all work actually completed by said Contractor (at the prices stated in the Contract Documents), the value of all partially completed work at a fair and equitable price, and the amount of all Extra Work performed at the prices agreed upon, or provided for by the terms of the Contract Documents. The Observer shall then make a final statement of the balance due the Contractor by deducting from the above estimate all previous payments by the County and all other sums that may be retained by the County under the terms of the Agreement and the Contract Documents and the Observer shall certify same to the County who shall pay to the Contractor on or before thirty (30) days after the date of the Observer's certification.

8. Subcontractors

8.01 Award of Subcontracts for Portions of the Work

Unless otherwise specified in the Contract Documents or in the Instructions to Bidders, the Contractor, as soon as practicable after the award of the contract, shall furnish to the Observer, in writing for acceptance by the County, a list of the names of the Subcontractors proposed for the principal portions of the Work. The Observer shall promptly notify the Contractor, in writing, if the County, after due investigation, has objection to any Subcontractor on such list and does not accept such Subcontractor.

The Contractor shall not contract with any Subcontractor or any person or organization (including those who are to furnish materials or equipment fabricated to a special design) proposed for portions of the Work designated in the Contract Documents or in the Instructions to Bidders or, if none is so designated, with any Subcontractor proposed for the principal portions of the Work who has been rejected by the County. The Contractor will not be required to contract with any Subcontractor or person or organization against whom the Contractor has a reasonable objection.

If the County refuses to accept any Subcontractor or person or organization on a list submitted by the Contractor in response to the requirements of the Contract Documents or the Instructions to Bidders, the Contractor shall submit an acceptable substitute and the Contract Price shall be increased or decreased by the difference in cost occasioned by such substitution and an appropriate change order shall be issued; however, no increase in the Contract Price shall be allowed for any such substitution unless the Contractor has acted promptly and responsively in submitting for acceptance any list or lists of names as required by the Contract Documents or the Instructions to Bidders.

If the County requires a change of any proposed Subcontractor or person or organization previously accepted by them, the Contract Price shall be increased or decreased by the difference in cost occasioned by such change and an appropriate change order shall be issued.

The Contractor shall not make any substitution for any Subcontractor or person or organization that has been accepted by the County, unless the substitution is acceptable to the County.

8.02 Subcontractual Relations

All work performed for the Contractor by a Subcontractor shall be pursuant to an appropriate written agreement between the Contractor and the Subcontractor (and where appropriate between Subcontractors and Sub-subcontractors) which shall contain provisions that:

(1) preserve and protect the rights of the County, the Observer, the GEC and the Engineer of Record under the contract with respect to the Work to be performed under the subcontract so that the subcontracting thereof will not prejudice such rights;
(2) require that such work be performed in accordance with the requirements of the Contract Documents;
(3) require submission to the Contractor of the applications for payment under each subcontract to which the Contractor is a party, in reasonable time to enable the Contractor to apply for payment in accordance with the Contract Documents;
(4) require that all claims for additional costs, extensions of time, damages for delays or otherwise with respect to subcontracted portions of the Work shall be submitted to the Contractor (via any Subcontractor or Sub-subcontractor where appropriate) in sufficient time so that the Contractor may comply in the manner provided in the Contract Documents for like claims by the Contractor upon the County;
(5) obligate each subcontractor specifically to consent to the provisions of this section.

A copy of all such signed subcontract agreements shall be filed by the Contractor with the Observer before the Subcontractor shall be allowed to commence work.

8.03 Payments to Subcontractors

The Contractor shall pay each Subcontractor, upon receipt of payment from the County, an amount directly based upon the value of the Work performed and allowed to the Contractor on account of such Subcontractor's work, less the percentage retained from payments to the Contractor. The Contractor shall also require each Subcontractor to make similar payments to its subcontractors.

If the Observer fails to approve a payment for any cause which is the fault of the Contractor and not the fault of a particular Subcontractor, the Contractor shall pay the Subcontractor, on demand made at any time after the Certificate for Payment should otherwise have been issued, for its work to the extent completed, less the retained percentage, if any.

The Observer may, on request and at its discretion, furnish to any Subcontractor, if practicable, information regarding percentages of completion certified to the Contractor on account of work done by such Subcontractors.

Neither the County, the Observer nor the Engineer shall have any obligation to pay or to see to the payment of any monies to such Subcontractor except as may otherwise be required.

9. Protection of Persons and Property

9.01 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work.

9.02 Safety of Persons and Property

The Contractor shall take all reasonable precautions for the safety of, and shall provide all reasonable protection to prevent damage, injury, or loss to:

(1) all employees on the Work and all other persons who may be affected thereby:
(2) all the Work and all materials and equipment to be incorporated therein, whether in storage or off the site, under the care, custody or control of the Contractor or any of its Subcontractors or Sub-subcontractors; and
(3) other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, fences, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

The Contractor shall comply with all applicable laws, ordinances, rules, regulations and lawful orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain, as required by existing conditions and progress of the Work, all reasonable safeguards for safety

and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent utilities.

When the use or storage of explosives or other hazardous materials or equipment is necessary for the execution of the Work, the Contractor shall exercise the utmost care and shall carry on such activities under the supervision of properly qualified personnel.

All blasting, including methods of storing and handling explosives and highly inflammable materials, shall conform to federal, state, local laws and ordinances.

The following is a list of requirements in addition to federal, state, and local laws and ordinances:

(1) The Contractor shall furnish the County with a Certificate of Blasting Insurance in the amount of $300,000.00 for each contract, at least twenty-four (24) hours prior to using explosives. A blasting permit must be obtained from the appropriate jurisdictions at least five (5) days prior to use of explosives. If blasting is covered under the Contractor's General Insurance Certificate for each contract, a separate blasting certificate will not be required.
(2) The following public utility companies and departments will be notified by the Contractor, on every occasion, at least twenty-four (24) hours prior to the use of explosives: Water and Wastewater, Electric, Gas, Telephone and the County Engineering Department.
(3) Explosive materials to be used shall be limited to blasting agents and dynamite, unless prior approval of other materials is obtained in writing from the Engineering Department.
(4) During blasting, all reasonable precautions shall be taken to protect pedestrians, passing vehicles, and public or private property. Blasting mats or protective cover shall be used when required by the Observer, the permit, or by safe blasting practices.
(5) All explosives shall be stored in accordance with all applicable laws and codes.
(6) The Engineer or its representative shall have the right to limit the use of explosives and/or blasting methods which in its opinion are dangerous to the public or nearby property of any kind.
(7) The Contractor, at its expense, shall promptly repair or replace all items known to be damaged as a result of blasting. All claims of damage shall be investigated by the County or by consulting firms approved by the County.
(8) The Contractor shall maintain accurate records throughout the blasting operations showing the type explosive used, number of holes, pounds per hole, depth of hole, total pounds per shot, delays used, date and time of blast and initials of the Observer. The Contractor is fully responsible for all claims resulting from its blasting operation.

All damage or loss to any property referred to in this article caused, in whole or in part, by the Contractor, any Subcontractor, any Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable, shall be

remedied by the Contractor, except damage or loss attributable solely to faulty drawings or specifications or solely to the acts or omissions of the County its agents, employees, or representatives or anyone employed by either of them, and not attributable in any degree to the fault or negligence of the Contractor.

The Contractor shall designate a responsible member of its organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated in writing by the Contractor to the County.

9.03 Location and Protection of Utilities

Notwithstanding any other provision of the Contract Documents, the Contractor shall be solely responsible for the location and protection of any and all public utility lines and utility customer service lines in the Project area. The Contractor shall exercise due care to locate and to mark, uncover or otherwise protect all such lines in the construction zone and any of the Contractor's work or storage areas. Upon request, the County shall provide such information as it has about the location and grade of water, sewer, gas, and telephone and electric lines and other utilities in the Work area but such information shall not relieve or be deemed to be in satisfaction of the Contractor's obligation hereunder, which shall be primary and nondelegable. Any such lines damaged by the Contractor's operations shall be immediately repaired by the Contractor or it shall cause such damage to be repaired at its expense.

10. Termination

10.01 Termination by the County for Cause

Conditions for termination are as follows:

(A) Without prejudice to any other legal or equitable right or remedy which it would otherwise possess hereunder or as a matter of law, the County shall be entitled, by giving Contractor five (5) days prior written notice, to terminate the Agreement in its entirety at any time:

(1) If the Contractor becomes insolvent, voluntarily files for bankruptcy, is the subject of an involuntary petition for bankruptcy commenced by its creditors, makes a general assignment for the benefit of creditors or becomes the subject of any other proceeding commenced under any statute or law for the relief of debtors; or

(2) If a receiver trustee or liquidator of any of the property or income of Contractor shall be appointed; or

(3) If Contractor:

(a) Shall fail to prosecute the Work or any part thereof with diligence necessary to insure its progress and completion as prescribed by the time schedules; and shall fail to take such steps to remedy such default within ten (10) days after written notice thereof from the County; or

(4) If Contractor:

(a) Shall commit a default under any of the terms, provisions, conditions, or covenants contained in the Contract Documents; and

(b) Shall fail to take such steps to remedy such default within ten (10) days after written notice thereof from the County.

(B) In the event of County's termination for cause, Contractor shall only be paid its reimbursable costs incurred prior to the effective date of the termination notice and shall not be entitled to receive any further fixed fee payments hereunder and shall be further subject to any claim the County may have against Contractor under other provisions of the Contract Documents or as a matter of law, including the refund of any overpayment of reimbursable costs and/or fixed fee.

(C) If the Agreement is terminated for cause, the County shall have the right, but shall not be obligated, to complete the Work itself or by others; and to this end, the County shall be entitled to take possession of and use such equipment and materials as may be on the Project site, and to exercise all rights, options, and privileges of Contractor under its subcontracts, purchase orders, or otherwise; and Contractor shall promptly assign such rights, options and privileges to the County. If the County elects to complete the Work itself or by others, pursuant to the foregoing, the Contractor will reimburse the County for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting work by Contractor which fails to meet contract requirements.

Nothing contained in the preceding sections shall require the County to pay for any of the Work which is unsatisfactory, as determined by the Observer or which is not submitted in compliance with the terms of the Contract Documents. The County shall not be required to make any payments to Contractor when Contractor is in default under the Contract Documents.

This Article shall not constitute a waiver of any right, at law or at equity, which the County may have if Contractor is in default, including the right to bring legal action for damages or to force specific performance of the terms and conditions of the Contract Documents.

10.02 Termination for Convenience

In connection with the Work outlined in the Contract Documents, it is agreed and fully understood by Contractor, that the County may cancel or indefinitely suspend further work hereunder or terminate the Agreement for the convenience of the County, upon fifteen (15) days written notice to Contractor. In the event the County terminates the Agreement for convenience, it is hereby understood and acknowledged by the Contractor that immediately upon receipt of the County's notice of termination, all work and labor being performed under the Contract Documents shall cease. Contractor shall invoice the County for all work satisfactorily completed and shall be compensated in accordance with the terms of the Contractor Documents for work accomplished prior to the receipt of said notice. No amount shall be due for lost or anticipated profits. However, no cost incurred after the effective date of the notice of termination shall be treated as reimbursable costs unless it relates to carrying out the un-terminated portion or taking closeout measures.

10.03 Obligations of Contractor Following Termination

After receipt of a notice of termination, whether such termination be for cause or convenience, Contractor shall, in good faith and to the best of its ability, do all things necessary to assure the efficient proper closeout of the terminated work (including the protection of County property). Among other things, the Contractor shall, except as otherwise directed or approved by the County:

(1) Stop the Work on the date and to the extent specified in the notice of termination.
(2) Place no further orders for subcontracts for services, equipment or materials, except as may be necessary for completion of such portion of the Work as is not terminated.
(3) Terminate all orders and subcontracts to the extent that they relate to the performance of the Work terminated by the notice of termination.
(4) Assign to the County, in the manner and to the extent directed by it, all right title, and interest of Contractor under the orders or subcontracts so terminated; in which case, the County shall have the right to settle or pay any or all claims arising out of such termination of such orders and/or subcontracts.
(5) With the approval of the County, settle all outstanding liabilities and all claims arising out of such termination or orders and subcontracts.
(6) Deliver to the County, all documents, property, plans, field surveys, maps, cross sections and other data, designs and work related to the Project, which shall become the property of the County upon termination. The delivery of such items shall be made in a reasonably organized form, without restriction on future use. Should the County subsequently contract with a new contractor for continuation of services on the Project subject of the Contract Documents, Contractor shall cooperate in providing information to the County and the new contractor.

11. Inspection and Audit

Contractor's records shall be subject to audit and such records shall include, but not be limited to accounting records, written policies and procedures; subcontract files (including proposals of successful and unsuccessful bidders, bid recaps, etc.); original estimates; estimating work sheets; correspondence; change order files (including documentation covering negotiated settlements); back charge logs and supporting documentation; general ledger entries detailing cash and trade discounts earned, insurance rebates and dividends; and any other Contractor records which may have a bearing on matters of interest to the County in connection with the contractor's work for the County. All of the foregoing, hereinafter referred to as "records," shall be open to inspection and subject to audit and/or reproduction by County or its authorized representative to the extent necessary to adequately permit evaluation and verification of:

(a) Contractor compliance with the Contract Documents,
(b) compliance with County's business ethics policies,
(c) compliance by other contractors or subcontractors with contracts with County or Contractor, and
(d) compliance with provisions for pricing change orders, invoices or claims submitted by the Contractor or any of its payees.

Other specific records subject to audit include all information, materials and data of every kind and character such as documents, subscriptions, recordings, computerized information, agreements, purchase orders, leases, contracts, commitments, arrangements, notes, daily diaries, superintendent reports, drawings, receipts, vouchers and memoranda, and any and all other agreements, sources of information that may, in County's judgment, have any bearing on or pertain to any matters, rights, duties or obligations under or covered by the Contract Documents. Such records subject to audit shall also include those records necessary to evaluate and verify direct and indirect costs, (including overhead allocations) as they may apply to costs associated with this Project. In those situations where Contractor's records have been generated from computerized data (whether mainframe, mini-computer, or PC based computer systems), Contractor agrees to provide County's representatives with extracts of data files in computer readable format on data disks or suitable alternative computer data exchange formats.

The County or its designee shall be entitled to audit all of the Contractor's records for a period of three (3) years after final payment or a longer period if required by law.

Contractor shall require all payees (including those entering into lump sum subcontracts and lump sum major material purchase orders), to comply with the provisions of this article by insertion of the requirements hereof in a written contract agreement between Contractor and payee. Requirements to include flow-down audit provisions in contracts with payees will apply to Subcontractors, Sub-Subcontractors, material suppliers, etc. when working under any type of contract including lump sum agreement, unit price agreements, time and material agreements, cost plus agreements, or other agreements. Contractor will cooperate fully and will cause all payees to cooperate fully in furnishing or in making available to County from time to time whenever requested in an expeditious manner any and all such information, materials and data required by this section.

County's agent or its authorized representative shall have access to the Contractor's facilities, shall be allowed to interview all current or former employees to discuss matters pertinent to the performance of the Work, shall have access to all necessary records, and shall be provided adequate and appropriate work space, in order to conduct audits in compliance with this section.

SECTION 12
SPECIAL CONDITIONS OF AGREEMENT

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SPECIAL CONDITIONS

I. County

Williamson County, a political subdivision of the State of Texas, acting through its County Judge, or his designee, agents or employees, whom Contractor has entered into the Agreement and for whom the Work is to be performed, is referred to as "County". The County shall be contacted through its Purchasing Department for contract related subjects and through the County Engineer's office for design and construction related subjects:

Purchasing Department	County Engineer
Williamson County	Williamson County
901 South Austin Avenue	3151 SE Inner Loop
Georgetown, TX 78626	Georgetown, TX 78626

II. Program Manager

Prime Strategies, Inc. is the County's Program Manager for the Project. The Program Manager represents the County and oversees the planning, design, review, and coordination of the design and construction phases of the Project.

III. General Engineering Consultant (GEC)

HNTB Corporation is the consulting engineering firm representing and assisting the County in the design, review, and coordination of the design and construction phases of the project, including oversight of the construction engineering and inspection services performed on the Project.

IV. The Construction Observer

Williamson County or Representative is the "Construction Observer" referred to herein and in the Contract Documents. The Construction Observer will be responsible for performing construction observation services on the Project.

V. Engineer of Record

Stantec Consulting Services Inc. is the County's design professional, who shall provide professional engineering services as defined in the Texas Government Code Chapter 2254, Subchapter A, and referred to as the " Engineer of Record" in the "General Conditions of Agreement" contained in the Contract Documents. Nothing contained in the Contract Documents shall create any contractual or agency relationship between the Engineer of Record and the Contractor.

VI. Insurance

The Contractor will carry Workmen's Compensation Insurance, Public Liability and Property Damage Insurance, and Automobile Insurance sufficient to provide adequate protection against damage claims which may arise from operations under the Contract Documents, in compliance with the following:

Contractors Insurance: Without limiting any of the other obligations or liabilities of the Contractor, during the term of the Agreement and prior to Final Completion, the Contractor and each subcontractor, at their own expense, shall purchase and maintain the herein stipulated minimum insurance with companies duly approved to do business in the State of Texas and satisfactory to the County. Certificates of each policy shall be delivered to the County before any work is started, along with a written statement from the issuing company stating that said policy shall not be canceled, non-renewed or materially changed without 30 days advance written notice being given to the County. Prior to the effective date of cancellation, Contractor must deliver to the County a replacement certificate of insurance or proof of reinstatement. A model Certificate of Insurance is illustrated herein. Coverage shall be of the following types and not less than the specified amounts:

(a) workers' compensation as required by Texas law, with the policy endorsed to provide a waiver of subrogation as to the County; employer's liability insurance of not less than $500,000 for each accident, $500,000 disease--each employee, $500,000 disease-policy limit.

(b) commercial general liability insurance, including independent contractor's liability, completed operations and contractual liability covering, but not limited to, the liability assumed under the indemnification provisions of the Contract Documents, fully insuring Contractor's (or subcontractor's) liability for injury to or death of County's employees and third parties, extended to include personal injury liability coverage with damage to property of third parties, with minimum limits as set forth below:

General Aggregate	$1,000,000
Operations Aggregate	$1,000,000
Personal and Advertising Injury	$600,000
Each Occurrence	$600,000
Fire Damage (any one fire)	$50,000
Medical Expense (any one person)	$5,000

The policy shall include coverage extended to apply to completed operations, asbestos hazards (if this project involves work with asbestos) and XCU (explosion, collapse and underground) hazards. The completed operations coverage must be maintained for a minimum of one year after Final Completion and acceptance of the Work, with evidence of same filed with County.

(c) comprehensive automobile and truck liability insurance, covering owned, hired and non-owned vehicles, with a combined bodily injury and property damage minimum limit of $600,000 per occurrence; or separate limits of $250,000 for bodily injury (per person), $500,000 bodily injury (per accident) and $100,000 for property damage. Such insurance shall include coverage for loading and unloading hazards.

"Umbrella" Liability Insurance: The Contractor shall obtain, pay for and maintain umbrella liability insurance during the contract term, insuring Contractor for an amount of not less than $1,000,000 per occurrence combined limit for bodily injury and property damage that follows form and applies in excess of the primary liability coverages required herein above. The policy shall provide "drop down" coverage where underlying primary insurance coverage limits are insufficient or exhausted. County and Project Engineer shall be named as additional insured.

Policy Endorsements and Special Conditions

(a) Each insurance policy to be furnished by Contractor shall include the following conditions by endorsement to the policy:

(1) name the County, the Program Manager, the County's Representatives, the GEC, the Construction Observer and the Engineer of Record as an additional insured as to all applicable coverage;
(2) each policy shall require that 30 days prior to the cancellation, non-renewal or any material change in coverage, a notice thereof shall be given to County by certified mail.
(3) the term "County" shall include all authorities, boards, bureaus, commissions, divisions, departments and offices of the County and individual members, employees and agents thereof in their official capacities, and/or while acting on behalf of the County;
(4) the "Program Manager" represents and assists the County in the planning, design, review, and coordination of the design and construction phases of the project.
(5) the policy phrase "other insurance" shall not apply to the County where the County is an additional insured on the policy; and
(6) all provisions of the Contract Documents concerning liability, duty and standard of care together with the indemnification provision, shall be underwritten by contractual liability coverage sufficient to include such obligations within applicable policies.

(b) Insurance furnished by the Contractor shall also be in accordance with the following requirements:
(1) any policy submitted shall not be subject to limitations, conditions or restrictions deemed inconsistent with the intent of the insurance requirements to be fulfilled by Contractor. The County's decision thereon shall be final;
(2) all policies are to be written through companies duly licensed to transact that class of insurance in the State of Texas; and
(3) all liability policies required herein shall be written with an "occurrence" basis coverage trigger.

(c) Contractor agrees to the following:
(1) Contractor hereby waives subrogation rights for loss or damage to the extent same are covered by insurance. Insurers shall have no right of recovery or subrogation against the County, it being the intention that the insurance policies shall protect all

parties to the Agreement and be primary coverage for all losses covered by the policies;

(2) companies issuing the insurance policies and Contractor shall have no recourse against the County for payment of any premiums or assessments for any deductibles, as all such premiums and deductibles are the sole responsibility and risk of the Contractor;

(3) approval, disapproval or failure to act by the County regarding any insurance supplied by the Contractor (or any subcontractors) shall not relieve the Contractor of full responsibility or liability for damages and accidents as set forth in the contract documents. Neither shall the bankruptcy, insolvency or denial of liability by the insurance company exonerate the Contractor from liability; and

(4) no special payments shall be made for any insurance that the Contractor and subcontractors are required to carry; all are included in the contract price and the contract unit prices.

Any of such insurance policies required under the Contract Documents may be written in combination with any of the others, where legally permitted, but none of the specified limits may be lowered thereby.

The Contractor shall furnish the County with satisfactory proof that it has provided adequate insurance coverage in amounts and by approved carriers as required by the Contract Documents.

VII. Record ("As-Built") Drawings

The Contractor shall mark all changes and revisions on all of its copies of the working drawings during the course of the Project as they occur. Upon completion of the Project and prior to Final Acceptance and Payment, the Contractor shall submit to the Construction Observer one set of its working drawings, dated and signed by the Contractor and its project superintendent and labeled as "As-Built", that shows all changes and revisions outlined above and that shows field locations of all above ground appurtenances including, but not limited to valves, fire hydrants and manholes. These as-built drawings shall be forwarded to the GEC and then to the County and become the property of the County. Each appurtenance shall be located by at least two (2) horizontal distances measured from existing, easily identifiable, immovable appurtenances such as fire hydrants or valves. Property pins can be used for as-builts tie-ins provided no existing utilities as previously described are available. Costs for delivering as-built drawings shall be subsidiary to other bid items.

VIII. Limit of Financial Resources

The County has a limited amount of financial resources committed to this Project; therefore, it shall be understood by Contractor that the County may be required to change and/or delete any items which it may feel is necessary to accomplish all or part of the scope of work within its limit of financial resources. Contractor shall be entitled to no claim for damages or anticipated profits on any portion of work that may be omitted. At any time during the duration of the Project, the County reserves the right to omit any

work from the Contract Documents. Unit prices for all items previously approved in the Contract Documents shall be used to delete or add work per change order.

IX. Limits of Work and Payment

It shall be the obligation of the Contractor to complete all work included in the Contract Documents, so authorized by the County, as described in the Contract Documents and Technical Specifications. Any question arising as to the limits of work shall be left up to the interpretation of the Engineer and/or Observer.

X. State Sales Tax

On a contract awarded by a governmental entity for the construction of a publicly-owned improvement in a street right-of-way or other easement which has been dedicated to the public and to the an Organization which qualifies for exemption pursuant to the provisions of Article 20.04 (F) of the Texas Limited Sales, Excise and Use Tax Act, the Contractor can probably be exempted in the following manner:

> The Contractor may buy tax-free any materials incorporated into the project by issuing a resale certificate in lieu of paying the sales tax at the time of purchase. The Contractor may then accept an exemption certificate from the City for the materials.

Even with a separated contract, the rental of equipment and the purchase of items which do not ultimately become part of the physical structure will still be subject to state and local sales taxes.

XI. Completion of Work on Time

The Contractor agrees that time is of the essence and that the definite value of damages which would result from delay would be incapable of ascertainment and uncertain, so that for each day of delay beyond the number of days herein agreed upon for the Substantial Completion of the Work specified in the Contract Documents and contracted for, after due allowance for such extension of time as is provided for under the provisions of Section 4.02 of the General Conditions, the County may withhold permanently from the Contractor's total compensation, not as penalty but as liquidated damages, the sum as specified in Special Specification 000-001 per calendar day.

Furthermore, it is agreed by the Contractor that the time period between Substantial Completion and Final Completion shall be no longer than **30** calendar days. This separate time period shall be for completion of the Punch List, as set forth in Section 5.06 of the General Conditions, Final Completion and Acceptance. In the event that Contractor fails to attain Final Completion on or before the expiration of the above said time period, the Contractor shall be subject to the remedies set forth in the Contract Documents. More specifically, the Contractor shall be subject to the terms set forth under Section 7.01 of the General Conditions, Abandonment by the Contractor. In addition to exercising its rights and remedies under the Contract Documents, the County may also exercise any remedy that may be available to it under the law or in equity.

XII. Layout and Construction Stakes

All construction staking shall be performed by the Contractor at the Contractor's expense.

XIII. Safety

The Contractor must use methods of construction that meet or exceed Occupational Safety and Health Administration Standards and any other local, state or federal regulations for safety that are in effect. The Contractor will have a trench safety plan prepared and sealed by Contractor's registered professional engineer.

XIV. Maintenance Bond Term & Amount

The required Maintenance Bond amount for this Project shall be twenty percent (20%) of the total amount bid and the bond period shall be two years from date of acceptance of completion, as noted on the Certificate of Completion.

XV. Safety Restrictions - Work Near High Voltage Lines

The following procedures shall be followed for work near high voltage lines on the Project.

(a) A warning sign not less than five (5) inches by seven (7) inches, painted yellow with black letters that are legible at twelve (12) feet shall be placed inside and outside vehicles such as cranes, derricks, power shovels, drilling rigs, pile drivers, hoisting equipment or similar apparatus. The warning sign shall read as follows: "Warning-Unlawful to Operate This Equipment Within Six Feet of High Voltage Lines".

(b) Equipment that may be operated with ten (10) feet of high voltage lines shall have an insulating cage guard around the boom or arm (except backhoes or dippers), and insulator links on the lift hook connections.

(c) When necessary to work within six (6) feet of high voltage electrical lines, notify the power company. The electric company will erect temporary mechanical barriers, de-energize the line, or raise or lower the line. All such work done by the power company shall be at the expense of the contractor. The contractor shall maintain an accurate log of all such calls to the electric company.

(d) No person shall work within six (6) feet of high voltage lines without protection measures having been taken as outlined in Paragraph C.

XVI. Erosion Control

Contractor shall comply with all laws prohibiting the pollution of any lake, stream, river, or wetland by the dumping of any refuse, rubbish, dredge material, or debris therein.

The Contractor will file the Notice of Intent (NOI) and the Notice of Termination (NOT) as the Project's operator. All required Permits and Notices shall be posted by the Contractor at the Project site.

Contractor shall apply temporary and/or permanent erosion and sedimentation controls, as specified in the plans or directed to disturbed roadside areas, fifteen feet and beyond from road pavement, prior to initiating road base operations. Following asphalt paving of road pavement, apply temporary and/or permanent erosion and sedimentation controls to remaining disturbed areas, as specified in the plans or as directed.

Contractor shall be responsible for the maintenance of all temporary and permanent water quality and erosion control measures proposed under the Storm Water Pollution Prevention Plan (SWPPP) or the Water Pollution Abatement Plan (WPAP) for the duration of the Project construction. Upon completion of construction and before the Construction Observer issues the Certificate of Completion, Contractor shall be responsible for the removal of all temporary measures and the cleaning and resetting of all permanent measures. All costs associated with this work shall be considered subsidiary to other bid items and no additional compensation shall be allowed.

Contractor shall take special precautions during all periods of heavy rainfall and at all locations where storm water, groundwater and/or mud and debris may enter the sewer systems. All mud, stones, and debris that enter the sewer systems due to Contractor's operations, or Contractor's neglect, shall be cleaned from the system by Contractor. It shall be Contractor's responsibility to see that such storm water, groundwater and debris do not enter the sewer system. All costs for such work shall be merged in the unit prices bid and no additional compensation shall be allowed.

If it is necessary in the prosecution of the Work to interrupt existing surface drainage, sewers, or under drainage, temporary drainage shall be provided until permanent drainage work is completed. The construction of all temporary drainage installations shall be considered as incidental to the construction of the Work. Drainage ways shall be kept clear or other satisfactory provisions made for drainage.

Contractor shall be responsible for and shall take all reasonable and necessary precautions to preserve and protect all existing tile drains, sewers, and other subsurface drains, or parts thereof, which may be continued in service without

change. Contractor shall repair, at its own expense, any and all damage to such facilities resulting from negligence or carelessness on the part of its operations.

The Construction Observer shall be responsible for the monitoring and inspection of the erosion control measures by completion of the Construction Pollution Prevention Plan Inspection and Maintenance Report, as required for coverage under the Texas Pollutant Discharge Elimination System (TPDES) General Construction Permit (TXR150000).

XVII. Discovery of Hazardous Materials

If, during the course of the Work, the existence of hazardous material, including asbestos containing material, is observed in the work area, the Contractor shall immediately notify the County in writing. The Contractor shall not perform any work pertinent to the hazardous material prior to receipt of special instructions from the County. Asbestos containing material includes transit pipe.

XVIII. Submittals – Certificate of Compliance

The Contractor shall submit to the Construction Observer a Certificate of Compliance from the manufacturer and/or supplier of each and every specified material or manufactured equipment item. The said certificate shall state that the material or the item of equipment to be furnished has been manufactured with materials in accordance with the applicable sections of all required codes, specifications, and standards as required by the specifications.

XIX. Unavailability of Materials

If the Contractor is unable to furnish or use any of the materials or equipment specified because of any order by a governmental agency limiting the manufacture or use, or because of the supply situation in the general market for such material or equipment, the Contractor shall offer substitutes therefor. The substitutes shall be suitable for the purpose, considering the factors of quality, serviceability, appearance, and maintenance. No substitute shall be used until the Engineer has approved it.

No consideration will be given to the use of substitutes on account of market conditions unless the Contractor demonstrates that, for the item in question, the Contractor placed its order without delay, that it has shown due diligence in attempting to locate the item as specified, and that the unavailability is due to market conditions in general throughout the particular industry.

If substitutes are used in the Work, the compensation to be paid to the Contractor shall be subject to review and adjustment. As a general principle, if the Engineer shall determine that the substitute will be less satisfactory, the Contractor shall allow a credit to the County; only under unusual circumstances shall there be an increase in compensation to the Contractor on account of substitution. The basis upon which the amount of price and adjustments will be founded shall be the cost of the appropriate items at the time the bids for the Project were opened.

XX. Traffic Control

Access shall be provided for residents and emergency vehicles at all times. When it becomes necessary to restrict access, the Contractor shall notify all applicable agencies (i.e. Fire Department, E.M.S., Public Works, etc.) a minimum of five (5) working days in advance of the proposed restrictions. At the end of each day, two lanes of traffic shall be opened to the public, unless otherwise stated in the Contract Documents.

XXI. Temporary Traffic Handling Devices

The Contractor shall furnish, erect and maintain all necessary barricades, lights, warning signs and temporary pavement markings as shown on the Plans and/or in accordance with the Texas Manual on Uniform Traffic Control Devices and with the Specifications in the Contract Documents. In addition, the Contractor shall provide flag-persons and take necessary precautionary measures for the protection of persons, property and the Work, when deemed necessary by the County or the Construction Observer.

The Construction Observer shall be responsible for the monitoring and inspection of the traffic control measures by completion of the Traffic Control Devices Inspection Report (TCDIR), and the Contractor shall be responsible for compliance with the terms of the TCDIR procedures.

XXII. Roadway Signs

All permanent and temporary roadway signage designated in the Contract Documents shall be in accordance with the Texas Manual on Uniform Traffic Control Devices.

XXIII. Project Signs

The Contractor shall erect at the site of construction, and maintain during construction, signs satisfactory to the County identifying the Project and indicating that the government is participating in the development of the Project. The project signs must be temporary signs, mounted in such a way that they can be moved and do not pose a safety issue. Two project signs will be required for the Project. The two said signs shall be 8' X 4' and made out of white 10 mm corrugated plastic with pressure sensitive vinyl lettering or approved equivalent to include: Road Bond Program, Your County Tax Dollars at Work!, with the Williamson County Seal, the Project’s name, and a brief description relating to the estimated date of completion, website address and the appropriate Williamson County Commissioner's name and precinct number. Furnishing, installing and maintaining these signs shall be considered subsidiary to Item 502, “Barricades, Signs and Traffic Handling”. The Contractor may use any manufacturer; however, the manufacturer must meet Williamson County standards.

XXIV. Permits

The Contractor shall be responsible for obtaining any and all required construction permits. Contractor agrees to comply with all conditions of the

permits and to maintain copies of the permits at the site at all times while the Work is in progress. The County shall be responsible for obtaining Section 404 permits from the U.S. Army Corps of Engineers as part of the Project design. When Contractor-initiated changes in the construction method changes the impacts to waters of the U.S., Contractor shall be responsible for obtaining new or revised Section 404 permits.

XXV. Landscape Restoration

If not designated as a specific pay item in bid package, the Contractor shall take the means necessary to protect all trees, shrubbery and sod. Protection, removal and replacement of existing landscaping will be in accordance with the Contract Documents.

XXVI. Existing Fencing

All fences encountered during construction within the right-of-way (ROW) shall be removed by the Contractor under "Preparing Right-of-Way." Permanent fencing, designating the ROW, will be provided by others, unless otherwise shown in the Contract Documents. The Contractor will be required to coordinate preparing ROW operations and fence removal and installations with the landowners as needed.

XXVII. Easements

Any easements, both temporary and permanent, required for the Project will be provided by the County as shown in the Contract Documents. Other easements required or desirable by the Contractor shall be arranged by the Contractor at its sole expense. The easements shall be cleaned after use and restored to their original conditions, or better by the Contractor. In the event additional work is required by the Contractor, it shall be the Contractor's responsibility to obtain written permission from the property owners involved for the use of additional property required. No additional payment will be allowed for this item.

XXVIII. Limits of Contractor's Operation

The Contractor shall limit construction operations to within the ROW or the easement unless otherwise directed by the County or its authorized representative.

XXIX. Maintenance of Pedestrian Walkways

The Contractor will be required to maintain clear walkways for pedestrians during construction in a manner to provide access in the most convenient and safest manner consistent with essential construction operations. Specifically, the following will be enforced.

Pedestrian traffic may be blocked at a location where work is actually in progress. Signs, barricades, and warning devices must be placed at nearest crosswalks approaching the construction site from every direction advising pedestrians of the blockage and advising them to use alternate routes.

Access to doorways and pedestrian entrances must be maintained at all times during hours that access is needed by business. Paving by sections or providing temporary access may be required.

No more than one corner of any intersection may be under construction at any one time. Work must be completed and opened for use by pedestrians before starting work on any other corner of an intersection.

The Contractor will be expected to diligently pursue construction from start to completion at every location to avoid prolonged and unnecessary disruptions to pedestrian traffic.

This work shall be considered incidental and not a separate pay item, unless provided otherwise in the Contract Documents.

XXX. Spoil

All excavated material unfit for backfill, waste material accumulated on the job, and any material surplus to that needed in the prosecution of the Work shall be removed from the site by the Contractor and properly and legally disposed of at its expense, unless otherwise directed by the Observer. **THE CONTRACTOR SHALL INDEMNIFY AND SAVE HARMLESS THE COUNTY, ALL OF ITS OFFICERS, AGENTS, AND EMPLOYEES FROM ALL SUITS, ACTIONS, OR CLAIMS OF ANY CHARACTER RESULTING FROM ITS ARRANGEMENTS FOR THE DISPOSAL OF SPOIL.** This shall be incidental and not a separate pay item.

XXXI. Materials Testing

Quality Control testing of all materials, construction items or products incorporated in the work shall be performed by the Contractor at the Contractor's expense, and shall be performed in accordance with the Quality Control (QC) / Quality Assurance (QA) program outlined in Appendix A.

Quality Assurance sampling and testing for acceptance may be required for quality assurance of used materials as directed by the Construction Observer or the County. The cost of such tests will be incurred by the County and coordinated by the Construction Observer through funds made available to the Construction Observer under his/her agreement with the County for the professional services related to construction engineering and inspection on the Project.

The Contractor shall furnish for review by the Construction Observer, not later than 10 days after receipt of notice to proceed, a Quality Control Plan consisting of plans, procedures, and organization necessary to produce an end product which complies with the contract documents. The Contractor will be allowed the latitude to develop standards of control subject to approval by the County. As a minimum, the plan shall include description of the type and frequency of

inspection staffing, materials handling and control, and testing deemed necessary to measure and control quality as specified by the contract documents.

XXXII. Pre-Construction Conference

Before the Project work order is issued, a pre-construction conference shall be held with representatives of the County and the Contractor. The Contractor shall plan to submit a schedule of operations at the pre-construction conference, unless otherwise notified. See Section XXXVI-Prosecution and Progress for additional construction schedule requirements.

XXXIII. Weight Tickets

The Contractor will be responsible for providing asphalt and aggregate tickets for quantity verifications on all asphaltic concrete used for the Project.

XXXIV. Confined Space Entry Program

It shall be the responsibility of the Contractor to implement and maintain a variable "Confined Space Entry Program" which must meet OSHA requirements for all its employees and subcontractors at all times during construction. OSHA defines all active sewer manholes, regardless of depth, as "permit required confined spaces". Contractors shall submit an acceptable "Confined Space Entry Program" for all applicable manholes and maintain an active file for these manholes. The cost of complying with this program shall be subsidiary to the pay items involving work in confined spaces.

XXXV. Tree and Plant Protection

Scope: Provide complete protection and maintenance of existing trees, shrubs, and grass areas designated to remain within construction limits and/or right-of-way.

Coordination: Coordinate protection of existing trees, shrubs and grass areas with other trades so as to prevent damage to these items.

Payment for Damages: If existing trees, shrubs or grass areas are destroyed, killed or badly damaged as a result of construction observations, Contract sum will be reduced by the amount of assessed damages. Damages will be evaluated by the Construction Observer, using the following:

Trees: International Shade Tree Conference Standards and following formula – measurement of a cross section of tree trunk will be made at a point 2 feet above existing grade level to determine cross section area in square inches. Assessment for damage will be $27.00 per square inch.

Shrubs and Grass Areas: An initial fine of $1,000 shall be imposed for any unauthorized disturbance within the boundaries of the shrub and grass areas to remain within the right-of-way and outside the limits of disturbance. This

disturbance includes but is not limited to: parking or intrusion of equipment or vehicles; storage of any materials, and any unauthorized damage and/or removal of vegetation. In addition to the initial fine, a base fine of $8.00 for every square foot of area of damaged vegetation within any areas designated to remain on the plans shall be imposed. The areas covered under this section include but are not limited to: areas designated to remain or no-work areas. In determining the amount of fine, the Construction Observer shall consider the degree and extent of harm caused by the violation, the cost of rectifying the damage, and whether the violation was committed willfully.

Materials: Tree Protection lumber dimensions shall be 4X4 and 2X4 sizes.

Protection: The Contractor shall protect existing trees, shrubs, and grass areas within construction limits from the following damage:

(1) Compaction of root area by equipment, vehicles or material storage;
(2) Trunk damage by moving equipment material storage, nailing or bolting;
(3) Strangling by tying ropes or guy wires to trunks or large branches;
(4) Poisoning by pouring solvents, gas, paint or other chemicals on or around trees and roots;
(5) Cutting of roots by excavating or ditching;
(6) Damage of branches by improper pruning;
(7) Drought from failure to water or by cutting or changing normal drainage pattern past roots;
(8) Changes of soil pH factor by disposal of lime base materials such as concrete or plaster;
(9) Do not cut roots 1-1/2” in diameter or over. Excavation and earthwork within drip line of trees shall be done by hand.

Install barricade protection around trees and shrubs, constructed of 4X4 posts and 2X4 stringers top and bottom. Install protection prior to demolition or excavation operations. Leave protection until construction operations are essentially complete.

Maintenance:

(1) Water trees and shrubs within construction limits as required to maintain their health during course of construction operations.
(2) Pruning will be performed by County.

XXXVI. Prosecution and Progress

At the pre-construction meeting, the Contractor shall submit for acceptance a schedule of all planned work activities and sequences that is intended to be followed in order to both substantially and fully complete the Work within the

allotted time periods (the "Project Schedule"). The purpose of the County requiring the Project Schedule shall be to:

(1) Ensure adequate planning during the prosecution and progress of the work in accordance with the allowable number of working/ calendar days and all milestones;
(2) Assure coordination of the efforts of the Contractor, County, Program Manager, Construction Observer, utilities and others that may be involved in the Project;
(3) Assist the Contractor, County, Program Manager and Construction Observer in monitoring the progress of the Work and evaluating proposed changes to the Contract Documents; and
(4) Assist the County, Program Manager and Construction Observer in administering the time requirements set forth in the Contract Documents.

A Type B Schedule will be required on all projects. Following is the schedule requirements:

Type B Schedule:

The Contractor shall create and maintain a Critical Path Method (CPM) Project Schedule showing the manner of prosecution of work that it intends to follow in order to both substantially and fully complete the Work within the allotted time periods. The Project Schedule shall employ computerized CPM for the planning, scheduling and reporting of the work as described in this specification. The CPM Project Schedule shall be prepared using the Precedence Diagram Method (PDM). No direct compensation will be allowed for fulfilling these requirements, as such work is considered subsidiary to the various bid items of the Project.

(1) Personnel. The Contractor shall provide an individual, referred to hereinafter as the Scheduler, to create and maintain the CPM schedule. He or she shall be proficient in CPM analysis and shall be able to perform required tasks on the software. The Scheduler shall be made available for discussion or meetings when requested by the County, Construction Observer or Program Manager.

(2) Schedule. The Project Schedule shall show the sequence and interdependence of activities required for complete performance of the work. The Contractor shall be responsible for assuring all work sequences are logical and show a coordinated plan of the Work.

Each activity on the schedule shall be described by: An activity number utilizing an alphanumeric designation system tied to the traffic control

plans, and that is agreeable to the County, Program Manager, or Construction Observer; concise description of the Work represented by the activity; and activity durations in whole working days with a maximum of twenty (20) working days. Durations greater than twenty (20) working days may be used for non-construction activities (mobilization, submittal preparation, curing, etc.), and other activities mutually agreeable between the Contractor and County, Program Manager or Construction Observer. The Contractor shall provide a legend for all abbreviations. The activities shall be coded so that organized plots of the schedule may be produced. Typical activity coding includes: Traffic control phase, location and work type.

The activity durations shall be based on the quantity for the individual work activity divided by a production rate. An estimated production rate for each activity shall also be shown.

The Contractor shall plan and incorporate major resources into the schedule. Major resources are defined as crews and equipment that constrain the Contractor from pursuing available work. The resources shall accurately represent the Contractor's planned equipment and manpower to achieve the productivity rates specified above.

Seasonal weather conditions shall be considered and included in the CPM schedule for all work influenced by temperature and/or precipitation. Seasonal weather conditions shall be determined by an assessment of average historical climatic conditions. Average historical weather data is available through the National Oceanic and Atmospheric Administration (NOAA). These effects will be simulated through the use of work calendars for each major work type (i.e., earthwork, concrete paving, structures, asphalt, drainage, etc.) Project and work calendars should be updated each month to show days actually able to work on the various work activities.

“Total float” is defined as the amount of time between the early start date and the late start date, or the early finish date and the late finish date, for each and every activity in the schedule. Float time in the schedule is a shared commodity between the County and the Contractor.

Only responsible delays in activities that affect milestone dates or the Project’s completion date, as determined by CPM analysis, will be considered for a time extension.

The schedule shall show the sequence and interdependence of activities required for complete performance of the work. The schedule shall be prepared and maintained in accordance with the scheduling requirements stated in this Section and shall include two (2) organized plots with the

activities logically grouped using the activity coding. The Contractor shall also provide an electronic copy of the schedule via e-mail.

The schedule shall encompass the time from the start of the Contract Time to the Project's Final Completion. The longest path through the schedule shall be readily discernable on the plot of the schedule.

(3) Joint Review, Revision and Acceptance. Within twenty (20) calendar days of receipt of the Contractor's proposed schedule, the County or its authorized agents shall evaluate the schedule for compliance with this specification, and notify the Contractor of the findings. If the County or its authorized personnel request a revision or justification, the Contractor shall provide a satisfactory revision or adequate justification to the satisfaction of the Construction Observer or County authorized personnel within seven (7) calendar days.

If the Contractor submits a CPM schedule for acceptance which is based on a sequence of work not in the Contract Documents, then the Contractor shall notify the County or its authorized entities in writing, separate from the schedule submittal.

The County's review and acceptance of the Contractor's Project Schedule is for conformance to the requirements of the Contract Documents only. Review and acceptance by the County or other authorized personnel of the Contractor's Project Schedule does not relieve the Contractor of any of its responsibility for the Project Schedule, or of the Contractor's ability to meet interim milestone dates (if specified) and the Final Completion date, nor does such review and acceptance expressly or by implication warrant, acknowledge or admit the reasonableness of the logic, durations, manpower or equipment loading of the Contractor's Project Schedule. In the event the Contractor fails to define any element of work, activity or logic and the County's review does not detect this omission or error, such omission or error, when discovered by the Contractor or County and its authorized personnel, shall be corrected by the Contractor at the next monthly schedule update and shall not affect the project completion date.

(4) Updates. The Project Schedule shall be updated on a monthly basis and shall be required as a basis for the pay application approval. The Project Schedule update shall be submitted with the pay application. The Contractor shall meet with the Construction Observer or County authorized personnel each month at a scheduled update meeting to review actual progress made through the data date of the schedule update. The review of progress will include dates activities actually started and/or completed, and the percentage of work completed or remaining duration on each activity started and/or completed. The percentage of work complete shall be calculated by utilizing the quantity and productivity rate

information. The Project Schedule update shall include one (1) copy of the following information:

a) Electronic copy of the updated schedule including revisions and changes via e-mail.
b) One (1) logically organized plot of the schedule update if requested by the County or its authorized personnel.

(5) Project Schedule Revisions. If the Contractor desires to make major changes in the Project Schedule, the Contractor shall notify the County or Construction Observer in writing. The written notification shall include the reason for the proposed revision, what the revision is comprised of, and how the revision was incorporated into the schedule. In addition to the written notification of the revision, the Contractor shall provide an electronic copy and one logically organized plot of the schedule including the revision if requested by the County or Construction Observer.

Major changes are hereby defined as those that may affect compliance with the requirements of the Contract Documents or those that change the critical path. All other changes may be accomplished through the monthly updating process.

(6) Time Impact Analysis. The Contractor shall notify the County or Construction Observer when an impact may justify an extension of Contract Time or adjustment of milestone dates. This notice shall be made in writing as soon as possible, but no later than the end of the next estimate period after the commencement of an impact or the notice for a change is given to the Contractor. Not providing notice to the County or Construction Observer by the end of the next estimate period will indicate the Contractor's approval of the time charges as shown on that time statement. Future consideration of that statement will not be permitted and the Contractor forfeits its right to subsequently request a time extension or time suspension unless the circumstances are such that the Contractor could not reasonably have knowledge of the impact by the end of the next estimate period.

When changes are initiated or impacts are experienced, the Contractor shall submit to the County or Construction Observer a written time impact analysis describing the influence of each change or impact.

A time impact analysis is an evaluation of the effects of changes in the construction sequence, contract, plans, or site conditions on the Contractor's plan for constructing the Project, as represented by the Project Schedule. The purpose of the time impact analysis is to determine if the overall Project has been delayed, and if necessary, to provide the Contractor and the County a

basis for making adjustments to the time allotted for Substantial Completion and Final Completion.

A time impact analysis shall consist of one or all of the steps listed below.

Step 1. Establish the status of the Project before the impact using the most recent Project Schedule update prior to the impact occurrence.

Step 2. Predict the effect of the impact on the most recent Project Schedule update prior to the impact occurrence. This requires estimating the duration of the impact and inserting the impact into the schedule update. The Contractor shall demonstrate how the impact was inserted into the schedule showing the added or modified activities and the added or modified relationships. Any other changes made to the schedule including modifications to the calendars or constraints shall be noted.

Step 3. Track the effects of the impact on the schedule during its occurrence. Note any changes in sequencing, and mitigation efforts.

Step 4. Compare the status of the Work prior to the impact (Step 1) to the prediction of the effect of the impact (Step 2), and to the status of the work during and after the effects of the impact are over (Step 3). Note that if an impact causes a lack of access to a portion of the Project, the effects of the impact may extend to include a reasonable period for remobilization.

The time impact analysis shall include an electronic copy of the complete schedule prepared in Step 2. If the Project Schedule is revised after the submittal of a time impact analysis but prior to its approval, the Contractor shall promptly indicate in writing to the County or Construction Observer the need for any modification to its time impact analysis.

Only one (1) copy of each time impact analysis shall be submitted within fourteen (14) calendar days after the completion of an impact. The County or Construction Observer may require Step 1 and Step 2 of the time impact analysis be submitted at the commencement of the impact, if needed to make a decision regarding the suspension of Contract Time.

Approval or rejection of each time impact analysis by the County, Construction Observer or Program Manager shall be made within fourteen (14) calendar days after receipt unless subsequent meetings and negotiations are necessary.

The time impact analysis shall be incorporated into and attached to any relevant change order(s) and/or supplemental agreement(s).

XXXVII. Sanitary Provisions

Provide and maintain adequate, neat, and sanitary toilet accommodations for employees, including County employees and representatives, in compliance with the requirements and regulations of the Texas Department of Health or other authorities having jurisdiction.

XXXVIII. Work Near Railroads

(A) General.

If the work crosses or is in close proximity to a railroad, do not interfere with the use or operation of the railroad company's trains or other property. Assign responsible supervisory personnel to ensure that tracks and adjacent areas are clear of debris, road materials, and equipment. It is the Contractor's responsibility to contact the railroad to determine the railroad's requirements for work within the railroad right of way and to comply with the requirements. The County will not reimburse the Contractor for any cost associated with these requirements. If the work requires construction within 25 ft. horizontally of the near rail or if the tracks may be subject to obstruction due to construction operations, notify the Engineer and the Railroad Company at least 3 days before performing work. The railroad company will provide flaggers during this work. If railroad flaggers will be needed longer than 2 consecutive days, request them at least 30 days before performing work within the railroad right of way. Flaggers provided by the railroad company will be paid for by the County. Do not store material or equipment in the Railroad's right of way within 15 ft. of the centerline of any track. Do not place any forms or temporary falsework within 8.5 ft. horizontally from the centerline or 22 ft. vertically above the top of rails of any track, unless otherwise shown in the Contract Documents.

(B) Temporary Crossings.

If a temporary crossing is needed, obtain permission from the railroad company before crossing the tracks. Execute the "Agreement for Contractor's Temporary Crossing" if required by the Railroad Company. The Contractor shall ensure that the tracks are left clear of equipment and debris that would endanger the safe operation of railroad traffic. Provide a crossing guard on each side of the crossing to direct equipment when hauling across the tracks. The Contractor shall stop construction traffic a safe distance away from the crossing upon the approach of railroad traffic. Work for temporary crossings will not be paid for directly, but shall be subsidiary to items of the Work subject of the Contract Documents. Work performed by the Railroad Company for the temporary crossing, except flaggers, will be at the Contractor's expense.

SECTION 13
TECHNICAL SPECIFICATIONS

Williamson County **Sheet:**
Project: Neenah Avenue Widening

GENERAL CONSTRUCTION NOTES

TCEQ-0592 (rev. 3/15/07)
Texas Commission on Environmental
Quality Water Pollution Abatement Plan

Written construction notification must be given to the appropriate TCEQ regional office no later than 48 hours prior to commencement of the regulated activity. Information must include the date on which the regulated activity will commence, the name of the approved plan for the regulated activity, and the name of the prime contractor and the name and telephone number of the contact person.

All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved water pollution abatement plan and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.

If any sensitive feature is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. The regulated activities near the sensitive feature may not proceed until the TCEQ has reviewed and approved the methods proposed to protect the sensitive feature and the Edwards aquifer from any potentially adverse impacts to water quality.

No temporary aboveground hydrocarbon and hazardous substance storage tank system is installed within 150 feet of a domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

Prior to commencement of construction, all temporary erosion and sedimentation (E&S) control measures must be properly selected, installed, and maintained in accordance with the manufacturers specifications and good engineering practices. Controls specified in the temporary storm water section of the approved Edwards aquifer protection plan are required during construction. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. The controls must remain in place until disturbed areas are revegetated and the areas have become permanently stabilized.

If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake must be provided that can indicate when the sediment occupies 50% of the basin volume.

Williamson County **Sheet:**
Project: Neenah Avenue Widening

Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards aquifer recharge zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.

Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

The following records shall be maintained and made available to the TCEQ upon request: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are initiated.

The holder of any approved Edward aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:

Any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;

Any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards aquifer.

Any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office
2800 S. IH 35, Suite 100
Austin, Texas 78704-5712
phone (512) 339-2929
fax (512) 339-3795

San Antonio Regional Office
14250 Judson Road
San Antonio, Texas 78233-4480
phone (210) 490-3096
fax (210) 545-4329

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These general construction notes must be included on the construction plans provided to the contractor and all subcontractors.

GENERAL CONSTRUCTION NOTES

1. All responsibility for the adequacy of these plans remains with the engineer who prepared them. In reviewing these plans, the City of Austin must rely on the adequacy of the work of the design engineer.

2. Contractor shall call the one call center (1-800-344-8377) for utility locations prior to any work in city easements or street R.O.W.

3. Contractor shall notify the construction inspection division of the city's one stop shop (oss) at (512-974-6360) or (512-974-7034) at least 24 hours prior to the installation of any drainage facility within a drainage easement or street R.O.W. the method of placement and compaction of backfill in the city's R.O.W. must be approved prior to the start of backfill operations.

4. All construction operations shall be accomplished in accordance with applicable regulations of the u.s. occupational safety and health administration.

5. All site work must also comply with environmental requirements.

6. Upon completion of the proposed site improvements and prior to the following, the engineer shall certify in writing that the proposed drainage, filtration and detention facilities were constructed in conformance with the approved plans.:

- release of the certificate of occupancy by the planning and development review department (inside the city limits); or

- installation of an electric or water meter (in the five-mile ETJ),

AMERICANS WITH DISABILITIES ACT

The City of Austin has reviewed this plan for compliance with city development regulations only. The applicant, property owner, and occupant of the premises are responsible for determining whether the plan complies with all other laws, regulations, and restrictions which may be applicable to the property and its use.

SITE SUMMARY*

Current zoning:	Right-Of-Way drainage & public utility easement
Total site area (LOC):	9.95 acres
Impervious cover (existing):	4.76 acres (47.9%)

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Impervious cover (increase): 0.90 acres (9.0%)
Impervious cover (proposed): 5.66 acres (56.9%)
*site summary for entire limits of construction (LOC)

CITY OF AUSTIN ELECTRIC UTILITY NOTES

1. Austin Energy has the right to prune and/or remove trees, shrubbery, and other obstructions to the extent necessary to keep the easements clear. Austin Energy will perform all tree work in compliance with chapter 25-8, Subchapter B of the City of Austin land development code.

2. The owner/developer of this subdivision/lot shall provide Austin Energy with any easement and/or access required, in addition to those indicated, for the installation and ongoing maintenance of overhead and underground electric facilities. These easements and/or access are required to provide electric service to the to the building(s) and will not be located so as to cause the site to be out of compliance with chapter 25-8 of the City of Austin land development code.

3. The owner shall be responsible for any installation of temporary erosion control, revegetation, and tree protection. In addition, the owner shall be responsible for any tree pruning and tree removal that is within ten feet of the centerline of the overhead electrical facilities designed to provide electric service to this project. The owner shall include Austin Energy's work within the limits of construction for this project.

4. The owner of the property is responsible for maintaining clearances required by the national electric safety code, occupational safety and health administration (OSHA) regulations, City of Austin rules and regulations and Texas state laws pertaining to clearances when working in close proximity to overhead power lines and equipment. Austin Energy will not render electric service unless required clearances are maintained. All costs incurred because of failure to comply with the required clearances will be charged to the owner.

5. A pre-construction safely meeting is required with Austin Energy 48 hours before commencement of construction. Failure to do so will result in the project being shut down. Call Doug Weise at 512-505-7023 to schedule a trail gate safety meeting. Include Chuck Hendry (512-505-7151) in the meeting, if cranes are being used during construction.

6. Barricades must be erected 10 feet from electric transmission structures during construction. Any relocation of electric transmission facilities or outages caused by this project will be charged to the property owner and contractor.

7. Warning signs must be placed under the overhead electric transmission facilities as notification of the electrical hazard.

8. For safety reasons, aerial equipment, dumpsters, staging or spoils areas are restricted to a maximum height of 20 feet in and around the transmission wire and structures.

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9. Prior to mobilizing tall equipment such as cranes, call Doug Weise at 512-505-7023 to coordinate with transmission personnel.

10. 24 hour access to electric facilities shall be maintained.

11. Any temporary or permanent security fence preventing access to the easement shall be coordinated with Austin Energy staff. Ae staff shall install a lock on the gate/fence for access.

12. Property owner and contractor are responsible for dust controls to minimize contamination of wire and insulators caused by dust from this project. Any subsequent cleaning or electrical outages caused by dust from this project will be charged to the property owner and contractor.

13. Fire hydrants are prohibited within 20 feet of transmission poles.

14. Sprinklers are prohibited within 15 feet of transmission poles.

APPENDIX P-1: - EROSION CONTROL NOTES

1. The contractor shall install erosion/sedimentation controls and tree/natural area protective fencing prior to any site preparation work (clearing, grubbing or excavation).

2. The placement of erosion/sedimentation controls shall be in accordance with the environmental criteria manual and the approved erosion and sedimentation control plan. The COA ESC plan shall be consulted and used as the basis for a TPDES required SWPPP. If a SWPPP is required, it shall be available for review by the City of Austin environmental inspector at all times during construction, including at the pre-construction meeting.

3. The placement of tree/natural area protective fencing shall be in accordance with the City of Austin standard notes for tree and natural area protection and the approved grading/tree and natural area plan.

4. A pre-construction conference shall be held on-site with the contractor, design engineer/ permit applicant and environmental inspector after installation of the erosion/sedimentation controls and tree/natural area protection measures and prior to beginning any site preparation work. The owner or owner's representative shall notify the planning and development review department, 974-2278, at least three days prior to the meeting date. COA approved ESC plan and TPDES SWPPP (if required) should be reviewed by COA ev. inspector at this time.

5. Any major variation in materials or locations of controls or fences from those shown on the approved plans will require a revision and must be approved by the reviewing engineer, environmental specialist or city arborist as appropriate. Major revisions must be approved by City of Austin staff. Minor changes to be made as field revisions to the erosion and sedimentation control plan may be required by the environmental inspector during the course of construction to correct control inadequacies.

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6. The contractor is required to provide a certified inspector with either a certified professional in erosion and sediment control (CPESC), certified erosion, sediment and stormwater-inspector (CESSWI) or certified inspector of sedimentation and erosion controls (CISEC) certification to inspect the controls and fences at weekly intervals and after significant rainfall events to insure that they are functioning properly. The person(s) responsible for maintenance of controls and fences shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls must be removed when the depth reaches six (6) inches.

7. Prior to final acceptance by the city, haul roads and waterway crossings constructed for temporary contractor access must be removed, accumulated sediment removed from the waterway and the area restored to the original grade and revegetated. All land clearing debris shall be disposed of in approved spoil disposal sites.

8. All work must stop if a void in the rock substrate is discovered which is; one square foot in total area; blows air from within the substrate and/or consistently receives water during any rain event. At this time it is the responsibility of the project manager to immediately contact a City of Austin environmental inspector for further investigation.

9. Temporary and permanent erosion control: all disturbed areas shall be restored as noted below.

All disturbed areas to be revegetated are required to place a minimum of six (6) inches of topsoil [see standard specification item no. 601S.3(a)]. Do not add topsoil within the critical root zone of existing trees.

Topsoil salvaged from the existing site is encouraged for use, but it should meet the standards set forth in 601S.

An owner/engineer may propose use of onsite salvaged topsoil which does not meet the criteria of standard specification 601S by providing a soil analysis and a written statement from a qualified professional in soils, landscape architecture, or agronomy indicating the onsite topsoil will provide an equivalent growth media and specifying what, if any, soil amendments are required.

Soil amendments shall be worked into the existing onsite topsoil with a disc or tiller create a well-blended material.

The vegetative stabilization of areas disturbed by construction shall be as follows:

Temporary vegetative stabilization: From September 15 to March 1, seeding shall be with or include a cool season cover crops:(western wheatgrass (pascopyrum smithii) at.6 pounds per acre, oats (avena sativa) at 4.0 pounds per acre, cereal rye grain (secale cereale) 45 pounds per acre. Contractor must ensure that any seed application requiring a cool season cover crop does not utilize annual ryegrass (lolium multiflorum) or perennial ryegrass (lolium perenne). Cool season cover crops are not permanent erosion control.

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From March 2 to September 14, seeding shall be with hulled bermuda at a rate of 5 pounds per acre or a native plant seed mix conforming to items 604S or 609S.
Fertilizer shall be applied only if warranted by a soil test and shall conform to item no. 606S, fertilizer. Fertilization should not occur when rainfall is expected or during slow plant growth or dormancy. Chemical fertilizer may not be applied in the critical water quality zone.

Hydromulch shall comply with table1, below.

Temporary erosion control shall be acceptable when the grass has grown at least 1½ inches high with a minimum of 95% total coverage so that all areas of a site that rely on vegetation for temporary stabilization are uniformly vegetated, and provided there are no bare spots larger than 10 square feet.

When required, native plant seeding shall comply with requirements of the City of Austin environmental criteria manual, and standard specifications 604S or 609S.

TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION

Material	Description	Longevity	Typical applications	Application rates
100% or any blend of wood, cellulose, straw, and/or cotton plant (except no mulch shall exceed 30% paper)	70% or greater wood/straw 30% or less paper or natural fibers	0-3 months	Moderate slopes; from flat to 3:1	1500 to 2000 lbs/acre

Permanent vegetative stabilization:

From September 15 to March 1, seeding is considered to be temporary stabilization only. If cool season cover crops exist where permanent vegetative stabilization is desired, the grasses shall be mowed to a height of less than one-half (½) inch and the area shall be re-seeded in accordance with table 2 below. Alternatively, the cool season cover crop can be mixed with bermudagrass or native seed and installed together, understanding that germination of warm-season seed typically requires soil temperatures of 60 to 70 degrees.

From March 2 to September 14, seeding shall be with hulled bermuda at a rate of 45 pounds per acre with a purity of 95% and a minimum pure live seed (PLS) of 0.83. Bermuda grass is a warm season grass and is considered permanent erosion control. Permanent vegetative stabilization can also be accomplished with a native plant seed mix conforming to items 604S or 609S.

Fertilizer use shall follow the recommendation of a soil test. See item 606S, Fertilizer. Applications of fertilizer (and pesticide) on city-owned and managed property requires the yearly

submittal of a pesticide and fertilizer application record, along with a current copy of the applicator's license. For current copy of the record template contact the City of Austin's ipm coordinator.

Hydromulch shall comply with table 2, below.

Water the seeded areas immediately after installation to achieve germination and a healthy stand of plants that can ultimately survive without supplemental water. Apply the water uniformly to the planted areas without causing displacement or erosion of the materials or soil. Maintain the seedbed in a moist condition favorable for plant growth. All watering shall comply with city code chapter 6-4 (water conservation), at rates and frequencies determined by a licensed irrigator or other qualified professional, and as allowed by the Austin Water Utility and current water restrictions and water conservation initiatives.

Permanent erosion control shall be acceptable when the grass has grown at least 1½ inches high with a minimum of 95 percent for the non-native mix, and 95 percent coverage for the native mix so that all areas of a site that rely on vegetation for stability must be uniformly vegetated, and provided there are no bare spots larger than 16 square feet.

When required, native plant seeding shall comply with requirements of the City of Austin environmental criteria manual, items # 604S and 609S.

TABLE 2: HYDROMULCHING FOR PERMANENT VEGETATIVE STABILIZATION

Material	Description	Longevity	Typical applications	Application rates
Bonded fiber matrix (BFM)	80% organic defibrated fibers 10%tackifier	6 months	On slopes up to 2:1 and erosive soil conditions	2500 to 4000 lbs/acre
Fiber reinforced matrix (FRM)	65% organic defibrated fibers 25% reinforcing fibers or less 10% tackifier	Up to 12 months	On slopes up to 1:1 and erosive soil conditions	3000 to 4500 lbs/acre

Project contact information:

For questions & plan revisions contact Williamson County HNTB @ 512-744-9082

The contractor shall not dispose of surplus excavated material from the site without notifying the planning and development review department at 974-2278 at least 48 hours prior with the location and a copy of the permit issued to receive the material.

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Project: Neenah Avenue Widening

SPECIAL CONSTRUCTION NOTES

1. The contractor shall furnish, install, and maintain barricades, warning signs, flashers and other devices of the type and size as indicated in the latest edition of the Texas manual on uniform traffic control devices, or as directed by the engineer.

2. The contractor shall maintain at least one dust-free lane for traffic with flagmen during construction activities and two lanes at all other times.

3. The estimated quantity for item no. 110, street excavation, was calculated from the existing ground to established line of the subgrade as shown in the typical roadway sections.

4. All structural concrete shall be Class "C" (5 sack, 25-8-3600 psi @ 28 days) and all reinforcing steel shall be grade sixty, unless otherwise noted.

5. The contractor shall not dispose of surplus excavated material from the site without notifying the environmental inspector, at 974-2278, 48 hours prior to the removal. This notification shall include the disposal location and a copy of the permit issued to receive the material, if applicable.

6. Utilities shown reflect the best information available at the time the project was surveyed. Utility relocation work has been or will be accomplished to clear the work space. These relocations are not reflected on these drawings.

7. All storm sewer pipe shall be RCP, Class III, with Class B bedding, unless otherwise noted.

8. Any utility meters in the way of the construction will be relocated outside the proposed construction area by the utility owner unless such work affecting those meters is included in the contract.

9. Any existing sidewalks, curbs or driveways disturbed by the construction shall be removed and restored with surface materials equal to or better than the original.

10. The rate of lime slurry application used to determine the quantities for this project is percent by weight.

APPENDIX P-2: CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION

1. All trees and natural areas shown on plan to be preserved shall be protected during construction with temporary fencing.
2. Protective fences shall be erected according to City of Austin standards for tree protection.
3. Protective fences shall be installed prior to the start of any site preparation work (clearing, grubbing or grading), and shall be maintained throughout all phases of the construction project.
4. Erosion and sedimentation control barriers shall be installed or maintained in a manner which does not result in soil build-up within tree drip lines.

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5. Protective fences shall surround the trees or group of trees, and will be located at the outermost limit of branches (drip line) , for natural areas, protective fences shall follow the limit of construction line, in order to prevent the following:
   a. Soil compaction in the root zone area resulting from vehicular traffic or storage of equipment or materials;
   b. Root zone disturbances due to grade changes (greater than 6 inches cut or fill), or trenching not reviewed and authorized by the city aborist;
   c. Wounds to exposed roots, trunk or limbs by mechanical equipment;
   d. Other activities detrimental to trees such as chemical storage, cement truck cleaning, and fires.
6. Exceptions to installing fences at tree drip lines may be permitted in the following cases:
   a. Where there is to be an approved grade change, impermeable paving surface, tree well, or other such site development, erect the fence approximately 2 to 4 feet beyond the area disturbed;
   b. Where permeable paving is to be installed within a tree's drip line, erect the fence at the outer limits of the permeable paving area (prior to site grading so that this area is graded separately prior to paving installation to minimized root damage);
   c. Where trees are close to proposed buildings, erect the fence to allow 6 to 10 feet of work space between the fence and the building;
   d. Where there are severe space constraints due to tract size, or other special requirements, contact the city arborist at 974-1876 to discuss alternatives.
   special note: for the protection of natural areas, no exceptions to installing fences at the limit of construction line will be permitted.
7. Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the trunk with strapped-on planking to a height of 8 ft (or to the limits of lower branching) in addition to the reduced fencing provided.
8. Trees approved for removal shall be removed in a manner which does not impact trees to be preserved.
9. Any roots exposed by construction activity shall be pruned flush with the soil. Backfill root areas with good quality top soil as soon as possible. If exposed root areas are not backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimizes water loss due to evaporation.
10. Any trenching required for the installation of landscape irrigation shall be placed as far from existing tree trunks as possible.
11. No landscape topsoil dressing greater than 4 inches shall be permitted within the drip line of trees. No soil is permitted on the root flare of any tree.
12. Pruning to provide clearance for structures, vehicular traffic and equipment shall take place before damage occurs (ripping of branches, etc.).
13. All finished pruning shall be done according to recognized, approved standards of the industry (reference the national arborist association pruning standards for shade trees available on request from the city arborist).
14. Deviations from the above notes may be considered ordinance violations if there is substantial non-compliance or if a tree sustains damage as a result.
15. Removal of existing sidewalks in the critical root zone of trees to be preserved shall be accomplished by lifting panels and flipping them toward the street to avoid Appendix P-6:

remedial tree care notes aeration and supplemental nutrient requirements for trees within construction areas

As a component of an effective remedial tree care program per environmental criteria manual section 3.5.4, preserved trees within the limits of construction may require soil aeration and supplemental nutrients. Soil and/or foliar analysis should be used to determine the need for supplemental nutrients. The city arborist may require these analyses as part of a comprehensive tree care plan. Soil PH shall be considered when determining the fertilization composition as soil PH influences the tree's ability to uptake nutrients from the soil. If analyses indicate the need for supplemental nutrients, then humate/nutrient solutions with mycorrhizae components are highly recommended. In addition, soil analysis may be needed to determine if organic material or beneficial microorganisms are needed to improve soil health. Materials and methods are to be approved by the city arborist (512-974-1876) prior to application. The owner or general contractor shall select a fertilization contractor and ensure coordination with the city arborist.

Pre-construction treatment should be applied in the appropriate season, ideally the season preceding the proposed construction. Minimally, areas to be treated include the entire critical root zone of trees as depicted on the city approved plans. Treatment should include, but not limited to, fertilization, soil treatment, mulching, and proper pruning.

Post-construction treatment should occur during final revegetation or as determined by a qualified arborist after construction. Construction activities often result in a reduction in soil macro and micro pores and an increase in soil bulk density. To ameliorate the degraded soil conditions, aeration via water and/or air injected into the soil is needed or by other methods as approved by the city arborist. The proposed nutrient mix specifications and soil and/or foliar analysis results need to be provided to and approved by the city arborist prior to application (fax # 512-974-3010). Construction which will be completed in less than 90 days may use materials at ½ recommended rates. Alternative organic fertilizer materials are acceptable when approved by the city arborist. Within 7 days after fertilization is performed, the contractor shall provide documentation of the work performed to the city arborist, planning and development review department. P.O. Box 1088, Austin, TX 78767. This note should be referenced as Item #1 in the sequence of construction disturbance of roots.

SPECIAL CONSTRUCTION TECHNIQUES ECM 3.5.4(D)

Prior to excavation within tree driplines or the removal of trees adjacent to other trees that are to remain, make a clean cut between the disturbed and undisturbed root zones with a rock saw or similar equipment to minimize root damage.

In critical root zone areas that cannot be protected during construction with fencing and where heavy vehicular traffic is anticipated, cover those areas with a minimum of 12 inches of organic mulch to minimize soil compaction. In areas with high soil plasticity geotextile fabric, per standard specification 620S should be placed under the mulch to prevent excessive mixing of the soil and mulch. Additionally, material such as plywood and metal sheets could be required by the city arborist to minimize root impacts from heavy equipment. Once the project is completed, all materials should be removed, and the mulch should be reduced to a depth of 3 inches.

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Project: Neenah Avenue Widening

Perform all grading within critical root zone areas by hand or with small equipment to minimize root damage.

Water all trees most heavily impacted by construction activities deeply once a week during periods of hot, dry weather. Spray tree crowns with water periodically to reduce dust accumulation on the leaves.

When installing concrete adjacent to the root zone of a tree, use a plastic vapor barrier behind the concrete to prohibit leaching of lime into the soil."

APPENDIX Q-2: IMPERVIOUS COVER (R.O.W. ONLY)

Project consists of improvements with existing row

SUBURBAN WATERSHEDS

Note: Q1 tables are not required for suburban watersheds
Impervious cover allowed at 80% x GSA =5.73 acres

Allowable impervious cover:
- Total acreage 15-25% = 0 acres x 10% = 0

Post construction **Existing** **Proposed increase**

R.O.W. Impervious Cover:

R.O.W. impervious cover: = 5.10 Acres = 76.1%

Impervious Cover on Slopes:

Slope Categories	**Building / And Other Impervious Cover**			**Driveways/ Roadways**		**Driveways/ Roadways**		**Driveways/ Roadways**	
	Acres	Ac.	% of category	Ac.	% of category	Ac.	% of category	Ac.	% of category
0-15%	6.70	0	0%	5.10	76.1%	4.10	61.2%	1.00	14.9%
15-25%	0	0	0	0	0	0	0	0	0
25-35%	0	0	0	0	0	0	0	0	0
Over 35%	0	0	0	0	0	0	0	0	0

Total R.O.W. area 6.70 ac

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Project: Neenah Avenue Widening

ENGINEER'S NOTES

1. The basis of bearing of the survey shown hereon is Texas State Plane Coordinate System, Central Zone, NAD 83(96), utilizing Western Data Systems Continually Operating Reference Stations (CORS) network.

2. This is a surface drawing, bearings are based on the Texas state plane coordinate system, NAD 83(96), Central Zone, utilizing western data systems continually operating reference station (CORS) network. And additionally tied LCRA GPS control monuments, coordinate values are project specific surface values. To derive grid values, multiply by a combined scale factor of 0.99988, with an origin point of n 0.0, e 0.0.

3. All trench excavation shall be in accordance with the U.S. Department of Occupational Health and Safety Administration. The contractor is reminded of his responsibility to provide a trench safety protection plan prior to the start of construction. The document shall be submitted to the county for approval prior to beginning any trench excavation.

4. Locations of all underground utilities in the vicinity of construction shall be uncovered to determine exact locations prior to the start of construction. This shall be subsidiary.

5. All joint seals, connections, and modifications necessary for proper installation of storm drainage systems shall be subsidiary to RCP and box culvert bid items.

6. Concrete riprap and energy dissipation blocks shall be included in the price bid for concrete wingwall and are subsidiary.

7. Control points for manholes and junction boxes shall be the center of the structure base.

8. Control points for curb inlets shall be the midpoint of the face of curb for curb inlet only (excluding inlet extensions). Top of curb inlet elevations shall match the existing or proposed top of curb elevations as appropriate.

9. All horizontal bends and pipe to pipe angled connections in RCP pipe shall be constructed using pre-fabricated bends and fittings.

10. The locations of driveways, steps, etc., as shown on these plans are approximate. Accurate locations shall be determined at the time of construction after consultation with the property owners.

11. Contractor shall reconstruct all existing driveways to the limits shown or to the nearest construction joint in the existing driveways as directed by the engineer.

12. It is the responsibility of the contractor to repair and maintain all erosion control facilities before, during, and after all construction activities in accordance with all local, state, and federal regulations.

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Project: Neenah Avenue Widening

13. For pedestrian safety, the contractor shall install orange plastic construction fencing (4 feet tall minimum) around all open excavations or as directed by the engineer. Such fencing shall not obstruct sight lines of the traveling public.

14. The contractor shall cover or temporarily remove existing signs that conflict with the suggested traffic control plans or the intent thereof but do not require relocation due to physical conflicts. Said signs shall not be relocated until temporary sign supports have been installed to allow for the immediate relocation of any such signs. This shall be subsidiary.

15. Contractor shall be responsible for bracing and protection of utility poles during all phases of construction. Contractor shall coordinate with utility company a minimum of 72 hours in advance of construction in the vicinity of their poles so they can verify the poles are being properly braced, protected. Subsidiary.

16. Preparation of ROW shall include all ROW areas within the project, driveway and lead walk penetration areas, within the daylight and project limits. Preparation of ROW shall include removal of existing concrete, retaining walls, concrete columns, bridge class culverts, slope paving, headwalls, wingwalls, flumes, guardrails, and storm drain conduit. Preparation of ROW shall also include any other disturbed areas as required for the diversion and care of water.

17. Contractor shall protect all existing fence and gates along ROW lines unless otherwise noted on plans.

18. Fence and gate items shall include connections to existing fencing not impacted by the project and include replacement of mow strips if present along the existing fence line. Additional corner posts may be required for connection, and are subsidiary. Contractor shall be responsible for the disposal of existing fencing and materials not suitable for reuse or in excess of what is required for relocation. This shall be subsidiary.

19. Contractor shall be responsible for locating irrigation systems in the project area. Adjustments to existing irrigation systems impacted by the project shall be capped at the ROW line. This shall be subsidiary.

20. Contractor shall salvage existing landscaping plants and materials on private property to the maximum extent practicable.

21. Contractor shall ensure fences disturbed by construction are closed at the end of each working day with temporary construction fencing at a minimum. This shall be subsidiary.

22. All radii dimensions are to face of curb.

23. Contractor shall refer to the diversion and care of water specifications for additional requirements related to the management of stormwater during construction.

24. Contractor is responsible for maintaining the appearance of all concrete structures until final acceptance of the project.

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25. All dimensions are taken at the face of curb unless otherwise noted on plans.
26. Call the Texas statewide one call locator number 811, 72 hours prior to the start of excavation.

27. Contractor is solely responsible for protecting existing overhead and underground utilities throughout the duration of construction.

28. Contractor shall maintain an open sidewalk or shared use path ADA compliant route along either the north or the south side of the project at all times in accordance with the TCP plans.

29. Contractor shall restripe fire lanes where noted. Contractor shall restore white arrows, entrance only, and exit only pavement markings on school drives disturbed by construction, this shall be subsidiary.

30. Contractor shall have certified arborist trim up the tree canopy over the shared use path to provide a clear height of 8-feet above the path. This shall be subsidiary.

31. Contractor may encounter existing irrigation, underground electric lines, and PVC conduit sleeves in driveway and lead walk penetration areas. Contractor shall coordinate with property owners prior to work in this areas to identify known private utility crossings. Contractor shall adjust the locations of private utilities in driveway penetration areas as required for the project. This shall be subsidiary.

32. Contractor is made aware this project includes coordination with others during construction to allow the City of Austin to install an irrigation system in the areas shown on the tree mitigation plans prior to top soil and seeding activites. Contractor shall notify City of Austin Public Works Department Rob Grotty 512.974.9540 and Sam West 512.974.8775 four (4) weeks prior to final top soil and seeding activities. Contractor shall coordinate each others as necessary to accommodate access by construction equipment, and schedule flexibility to allow for overlap in work areas. This shall be subsidiary.

33. Irrigation sleeves shall be schedule 40 PVC pipe in the diameter and locations shown on the plans. This shall be subsidiary.

34. Connections to existing inlets shall be subsidiary to inlet bid items, and shall include re-working the invert of the existing inlet if needed.

NEENAH AVENUE WIDENING
WILLIAMSON COUNTY
GOVERNING SPECIFICATIONS
(STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND SPECIAL SPECIFICATIONS)

WHERE DISCREPENCIES OCCUR BETWEEN THE VARIOUS GOVERNING SPECIFICATIONS, THE SPECIAL PROVISIONS SHALL GOVERN OVER BOTH STANDARD SPECIFICATIONS AND SPECIAL SPECIFICATIONS.

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: AUSTIN, TEXAS-STANDARD SPECIFICATIONS MANUAL AS CURRENTLY AMENDED INCORPORATED INTO THE CONTRACT BY REFERENCE.

< > REFERNCE ITEMS NOT USED ON THIS CONTRACT
( ) REFERENCE ITEMS USED ON THIS CONTRACT

WHEREVER, IN THE CITY OF AUSTIN STANDARD SPECIFICATIONS, REFERENCE IS MADE TO THE CITY, AND ITS REPRESENTATIVES, SUCH REFERENCE SHALL BE TAKEN TO MEAN WILLIAMSON COUNTY AND ITS REPRESENTATIVES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL TESTING REQUIRED BY THE STANDARD SPECIFICATIONS, INCLUDING THAT WHICH IS ATTRIBUTED TO THE CITY OF AUSTIN AND ITS REPRESENTATIVES.

101S	1/4/11	PREPARING RIGHT OF WAY
102S	8/20/07	CLEARING AND GRUBBING
104S	9/26/12	REMOVING PORTLAND CEMENT CONCRETE
110S	11/18/04	STREET EXCAVATION
120S	9/26/12	CHANNEL EXCAVATION
130S	9/26/12	BORROW
132S	8/20/07	EMBANKMENT
201S	8/20/07	SUBGRADE PREPARATION
202S	8/18/00	HYDRATED LIME AND LIME SLURRY
203S	9/26/12	LIME TREATMENT FOR MATERIALS IN PLACE
210S	2/24/10	FLEXIBLE BASE
236S	8/20/07	ROLLING (PROOF)
301S	8/20/07	ASPHALTS, OILS AND EMULSIONS
302S	9/26/12	AGGREGATES FOR SURFACE TREATMENTS
306S	2/24/10	PRIME COAT
307S	2/24/10	TACK COAT
312S	9/26/12	SEAL COAT
313S	2/24/10	CLEANING AND/OR SEALING JOINTS AND CRACKS (ASPHALTIC CONCRETE)
315S	9/26/12	MILLING ASPHALTIC CONCRETE PAVEMENT AND NON-PORTLAND CEMENT CONCRETE BASES
340S	9/26/12	HOT MIX ASPHALTIC CONC. PAVEMENT
360S	9/26/12	CONCRETE PAVEMENT
401S	9/26/12	STRUCTURAL EXCAVATION AND BACKFILL
402S	11/13/07	CONTROLLED LOW STRENGTH MATERIAL
406S	9/26/12	REINFORCING STEEL
408S	11/13/07	CONCRETE JOINT MATERIALS
409S	11/13/07	MEMBRANE CURING
410S	9/26/12	CONCRETE STRUCTURES
411S	11/13/07	SURFACE FINISHES FOR CONCRETE
414S	11/13/07	CONCRETE RETAINING WALLS

416S	11/13/07	WATERSTOPS
430S	11/15/11	P.C. CONCRETE CURB AND GUTTER
432S	1/4/10	P.C. CONCRETE SIDEWALKS
433S	12/9/08	P.C. CONCRETE DRIVEWAYS
434S	11/13/07	P.C. CONCRETE MEDIANS AND ISLANDS
470S	3/26/08	CURB CUTS FOR SIDEWALK RAMPS AND DRIVEWAYS
485S	11/13/07	CONCRETE PAVING UNITS FOR SIDEWALK RAMPS
503S	2/17/00	FRAMES, GRATES, RINGS AND COVERS
504S	2/24/10	ADJUSTING STRUCTURES
506	3/15/11	MANHOLES
508S	2/24/10	MISCELLANEOUS STRUCTURES AND APPURTENANCES
509S	9/26/12	EXCAVATION SAFETY SYSTEMS
510	10/3/13	PIPE
511S	9/26/12	WATER VALVES
551	11/18/04	PIPE UNDERDRAINS
559S	10/3/13	PORTLAND CONCRETE BOX CULVERTS
591S	12/31/13	RIPRAP FOR SLOPE PROTECTION
601S	9/1/11	SALVAGING AND PLACING TOPSOIL
602S	6/16/08	SODDING FOR EROSION CONTROL
604S	12/30/14	SEEDING FOR EROSION CONTROL
605S	6/21/07	SOIL RETENTION BLANKET
606S	6/21/07	FERTILIZER
609S	8/18/10	NATIVE GRASSLANDS SEEDING AND PLANTING FOR EROSION CONTROL
610S	9/26/12	PRESERVATION OF TREES AND OTHER VEGETATION
620S	5/23/00	FILTER FABRIC
623S	2/24/10	DRY STACK ROCK WALL
628S	12/31/13	SEDIMENT CONTAINMENT DIKE
632S	11/26/01	STORM INLET SEDIMENT TRAP
639S	8/18/10	ROCK BERM
641S	6/21/07	STABILIZED CONSTRUCTION ENTRANCE
642S	9/1/11	SILT FENCE
648S	12/30/14	MULCH SOCK
658S	4/4/12	VOID AND WATER FLOW MITIGATION
703	9/22/88	FENCING FOR EXCAVATIONS
722S	9/26/12	PROTECTIVE COATINGS
723	9/26/12	STRUCTURAL WELDING
803S	11/15/11	BARRICADES, SIGNS, AND TRAFFIC HANDLING
824S	2/24/10	TRAFFIC SIGNS
827S	9/26/12	DESIGNATED BICYCLE LANE SIGNING
829S	8/20/03	DESIGNATED BICYCLE LANE MARKINGS
835S	9/26/12	TRAFFIC SIGNAL CONDUIT
844S	9/26/12	TRENCH EXCAVATION AND BACKFILL FOR TRAFFIC SIGNAL CONDUIT
863S	9/26/12	REFLECTORIZED PAVEMENT MARKERS
870S	11/21/05	WORK ZONE PAVEMENT MARKINGS
871S	6/21/07	REFLECTORIZED PAVEMENT MARKINGS
874S	4/3/09	ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS
16120S	5/23/00	WIRING
16550S	5/23/00	STREET LIGHT STANDARD FOUNDATIONS

TEXAS DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION NOVEMBER 1, 2014. STANDARD SPECIFICATIONS ARE INCORPORATED INTO THE CONTRACT BY REFERENCE.

ITEMS 1 - 9 ARE SUPERSEDED BY THE CONTRACT GENERAL AND SPECIAL CONDITIONS, WHERE APPLICABLE.

WHEREVER, IN THE TXDOT STANDARD SPECIFICATIONS, REFERENCE IS MADE TO THE STATE OF TEXAS, THE DEPARTMENT AND ITS REPRESENTATIVES, SUCH REFERENCE SHALL BE TAKEN TO MEAN WILLIAMSON COUNTY AND ITS REPRESENTATIVES.

ITEM 432 RIPRAP <420><421><431><440><247>
ITEM 450 RAILING <421><440><441><442><445>(540) <420><422><424><446><448>
ITEM 466 HEADWALLS AND WINGWALLS <420><421><440><400><432><464>
ITEM 467 SAFETY END TREATMENT<400><420><421>(432)<440><442><445><460><464>
ITEM 500 MOBILIZATION
ITEM 540 METAL BEAM GUARD FENCE <421><441><445><529>
ITEM 544 GUARDRAIL END TREATMENTS
ITEM 550 CHAIN LINK FENCE <421><445>
ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES <445>

SPECIAL PROVISIONS: THE CONTENT OF THE SPECIAL PROVISIONS ARE INCLUDED ON THE FOLLOWING PAGES.

SPECIAL PROVISION TO ITEM 000-001 LIQUIDATED DAMAGES
SPECIAL PROVISION TO ITEM 500 (500-WC01) MOBILIZATION
SPECIAL PROVISION TO CITY OF AUSTIN ITEM 504S-GV ADJUSTING STRUCTURES
SPECIAL PROVISION TO CITY OF AUSTIN ITEM 559S CONCRETE BOX CULVERTS
SPECIAL PROVISION TO CITY OF AUSTIN ITEM 641S STABILIZED CONSTRUCTION ENTRANCE

SPECIAL SPECIFICATIONS: THE CONTENT OF THE SPECIAL SPECIFICATIONS ARE INCLUDED ON THE FOLLOWING PAGES.

ITEM WC9031 DIVERSION AND CARE OF WATER
ITEM WC9032 WATER QUALITY AND DETENTION POND – COMPLETE IN PLACE
ITEM WC9033 CONCRETE WASHOUT AREA

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL PROVISIONS AND SPECIAL SPECIFICATIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFICATIONS FOR THIS PROJECT.

Special Provision to Item 000
Schedule of Liquidated Damages

Table1
Schedule of Liquidated Damages

For Dollar Amount of Original Contract		Dollar Amount of Daily Contract Administration Liquidated Damages per Working Day
From More Than	To and Including	
0	100,000	**570**
100,000	500,000	**590**
500,000	1,000,000	**610**
1,000,000	1,500,000	**685**
1,500,000	3,000,000	**785**
3,000,000	5,000,000	**970**
5,000,000	10,000,000	**1125**
10,000,000	20,000,000	**1285**
20,000,000	Over 20,000,000	**2590**

Special Provision to Item 500
Mobilization

Item 500, "Mobilization," of the Standard Specifications is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

Article 500.3., "Payment." The 6th and 7th bullet is deleted and replaced by the following:

- Upon Final Completion, 97% of the mobilization lump sum bid will be paid. Previous payments under this Item will be deducted from this amount, and

- Payment for the remainder of the lump sum bid for "Mobilization" will be made with the Final Payment after all submittals are received, final quantities have been determined, and when any separate vegetative establishment and maintenance, test, and performance periods provided for in the Contract have been successfully completed and the County has issued the Certificate of Acceptance.

Special Provision to
Standard Specification Item 504S (Version 02/24/2010)
Adjusting Structures

For this project, Item No. 504S Adjusting Structures dated 02/24/10, of the City of Austin Standard Technical Specifications is hereby amended with respect to the clauses cited below. No other clauses or requirements of this Section of the City of Austin Standard Specifications are waived or changed.

Add the following to section 504S.6 – Payment:

The work performed, materials furnished and measures as provided above, will be paid by the unit bid price per each. The price shall include full compensation for furnishing all materials, handling, placing, labor, tools, equipment, trench repairs, pavement repairs, concrete structure repair, curb and gutter repair, blind flanges and appurtenances associated with, and incidentals necessary to complete the work.

A.

Pay Item No. SP504S-GV	Remove Valve	Per Each

End

SPECIAL PROVISION **SP559S**
Concrete Box Culverts

SPECIAL PROVISION To
Standard Specification Item 559S
Concrete Box Culverts
(Version October 3, 2013)

For the project Item No. 559S, Concrete Box Culverts, dated 10/3/2013, of the City of Austin Standard Technical Specifications is hereby amended with respect to the clauses cited below. No other clauses or requirements of this Section of the City of Austin Standard Specifications are waived or changed.

Article 559S.2 Submittals

Replace subparagraph F with the following:

"F. Certification of compliance with HS-20 load design standards;

End

SPECIAL PROVISION To
Standard Specification Item 641S (Version 06/21/07)
Stabilized Construction Entrance

For this project, Item No. **641S Stabilized Construction Entrance dated 06/21/07**, of the City of Austin Standard Technical Specifications is hereby amended with respect to the clauses cited below. No other clauses or requirements of this Section of the City of Austin Standard Specifications are waived or changed.

Paragraph 641S.6 Payment

Delete the first sentence in its entirety and replace with:

"The work performed and materials furnished and measured as provided under "Measurement" will be paid for **per each** "Stabilized Construction Entrance".

End

Special Specification WC 9031
Diversion and Care of Water

1. DESCRIPTION
Furnish, construct, and install water quality management facility.

2. MATERIALS

2.1 General. This specification relates to work conducted at or below the top of bank (TOB) of the unnamed tributary to Davis Spring Branch Creek that requires water to be diverted and removed from the work area. Also included in this specification are those Erosion/Sedimentation/Water Pollution Prevention control devices necessary to prevent water from entering the work area and also causing degradation of conditions downstream of the work area. These measures are in addition to those described in the Erosion and Sedimentation Plan sheets, and include but are not limited to the measures shown on the Dewatering Plan for Culvert A and Swale A.

The Contractor shall furnish all labor, equipment, materials, and services to:

Control and divert water from the work areas at or below the TOB the unnamed tributary to Davis Spring Branch Creek without increasing the risk of flooding to properties adjacent to and upstream of the project area.

Dewater work areas at or below the TOB of the unnamed tributary to Davis Spring Branch Creek due to any source of water, including, but not limited to: groundwater seepage, runoff, precipitation, and performance of diversion and control measures.

Control erosion and sedimentation resulting from construction and dewatering activities.

2.2. Related Sections.

ITEM 120S - CHANNEL EXCAVATION
ITEM 401S – STRUCTURAL EXCAVATION AND BACKFILL
ITEM 414S – CONCRETE RETAINING WALLS
ITEM 466 – HEADWALLS AND WINGWALLS
ITEM 559S – PORTLAND CEMENT CONCRETE BOX CULVERTS
ITEM 591S – RIPRAP FOR SLOPE PROTECTION

2.3. References.

2.3.1 Comply with all governmental, regional, and local standards and permits, including the US Army Corps of Engineers 401 Certification, 404 and 402 Permits, with respect to requirements for care of water discharges to natural streams

2.4. Submittals.

2.4.1 The Contractor shall submit for acceptance, a plan showing the proposed method for diverting the perennial flow of water and storm water runoff from the work area, including dewatering of the Structural and Channel Excavation items and the Portland Concrete Box Culvert item. The plan may be placed in operation upon approval from Williamson County, but nothing in this paragraph shall relieve the Contractor from full responsibility for the adequacy of the method used. Once all measures have been put in place on site, the functionality and success of the plan will be determined

and final approval given to begin operation. However, should the measures fail at any time during operation; implementation of a remedial action plan will be required at no additional charge to the Owner. Three copies of the plan shall be submitted to the County for review at the preconstruction conference.

2.4.2 At a minimum, the Contractor's care of water plan should contain:

1. A list of best management practice (BMP) devices proposed for use and how each will be used.
2. Provide a detailed step-by-step procedure for all activities that will occur at or below the TOB of the unnamed tributary to Davis Spring Branch Creek, including all activities associated with the channel work including structural and channel excavation items, retaining walls, riprap placement, and the Portland Cement Concrete Box Culverts item.
3. Provide a detailed step-by-step procedure for diverting water and establishing, maintaining, and removing the BMPs listed above.
4. A remedial action plan should the plan previously described fails, all or in part

2.5 Groundwater Information.

2.5.1 The geologic descriptions, drawings, logs of subsurface exploration, and water-level elevations, shown on the drawings or given elsewhere in these specifications are presented solely for the information of the bidders and for the contractor in planning the construction operations. The Owner and the Engineer assume no responsibility for any deductions, interpretations, or conclusions which may be made from this information.

2.6 Care of Water.

2.6.1 The Owner shall observe the Contractor's Care of Water, diversion and dewatering facilities, erosion and sediment control measures, and response to performance issues throughout the duration of the Contract. Any deviations from the accepted Care of Water Plan shall be submitted to Williamson County for review and acceptance a minimum of 3 working days prior to installation of controls in the field, unless immediate action is required for the proper care and diversion of storm water flows due to runoff from a precipitation event or the failure of a control.

2.6.2 Adequacy of the Contractor's measures will be determined based upon the avoidance of degradation to the water quality of the pond immediately downstream of the tributary on Davis Spring Branch, and waterways within and immediately downstream of the work area and the avoidance of increased flood risk to properties adjacent to and upstream of the work area. Should degradation occur, the Contractor shall take all reasonable steps consistent with the requirements herein to provide additional facilities to alleviate the cause of degradation and to rehabilitate the affected area(s).

3. PRODUCTS

3.1 Materials.

3.1.1 The Contractor shall supply all labor, equipment, materials, and services required for the appropriate diversion and care of water at or below the TOB of the unnamed tributary to Davis Spring Branch Creek.

3.2 Other Materials.

3.2.1 The contractor shall supply Temporary Erosion, Sedimentation and Water Pollution Prevention Control devices. The following list provides example measures, As this list is not all-inclusive, additional devices may be found at the NPDES Construction Site Stormwater Runoff Control website (http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=4) and/or by researching industry standards for this type of specialized work.

- filter bags

- filter socks
- rock filter dams
- erosion control matting
- floating baffle curtains
- temporary sedimentation basins
- coffer dams

3.2.2 Should an alternate device/measure be required (other than those listed above), the Contractor shall receive approval from Williamson County prior to implementing those devices/measures. The Contractor shall demonstrate that any such substitutions would provide at least the equivalent performance of the measures listed above.

4. EXECUTION

4.1 General.

4.1.1 This Care of Water Specification holds the Contractor responsible for the care of water related to work at or below the TOB of the unnamed tributary to Davis Spring Branch Creek and in no way eliminates or supersedes the Erosion and Sedimentation plans or narrative described in the design plans. The Contractor shall provide, operate, and maintain all ditches, basins, sumps, culverts, cofferdams, site grading, and pumping facilities required to divert, collect, filter, and remove water from the work areas.

4.1.2 All water removed from the work areas, shall be pumped or diverted to settling ponds, or through other erosion and sedimentation controls as appropriate for the flow quantity and velocity, before being allowed to discharge into natural drainage ways at locations approved by the Owner. Water discharged into natural drainage ways or water bodies shall be of equal or better quality than the receiving waters.

4.2 Dewatering.

4.2.1 Groundwater seepage and leaking diversion devices are anticipated to be a source of water into the Contractor's construction work areas. This will be augmented by direct precipitation and resultant runoff from the construction work area, upstream drainage areas, and existing and proposed closed systems which outfall within the project limits.

4.2.2 The Contractor shall be responsible for providing all facilities required to divert, collect, filter, control, and evacuate water from all construction work areas and excavations. Water shall generally be conducted away from all construction work areas or to temporary drainage conveyances within the work areas.

4.2.3 Temporary or natural drainage conveyances shall have sufficient capacity to provide continuous evacuation to avoid prolonged flooding of work areas. Temporary or natural drainage conveyances shall be arranged and altered, with approval from Williamson County, so as to avoid degradation of the water quality of the pond immediately downstream of the unnamed tributary on Davis Spring Branch Creek and waterways within and immediately downstream of the project area.

4.2.4 The Contractor shall utilize all necessary erosion and sedimentation control measures as needed and approved by Williamson County to avoid construction related degradation of the natural water quality.

4.2.5 Excavation dewatering shall be accomplished so as to prevent siltation of land or designated water bodies. Sumps shall be located and shaped so as to minimize entry of silt to dewatering pumps. Settling basins will be provided by the Contractor to receive pumped water when directed by Owner.

4.3 Erosion and Sedimentation Control.

4.3.1 The Contractor shall utilize control devices recommended in Section 2.02a or approved alternative sediment trapping methods and temporary sedimentation basins along the edge of, within, and downstream of the work area to trap sediment and minimize soil erosion in areas affected by construction activities. The Contractor should also employ site management strategies to minimize the potential for erosion. Such strategies shall include the following:

1. Conducting construction operations to minimize the duration of exposure of bare earth surfaces,
2. Prompt stabilization of disturbed areas,
3. Controlling rainfall runoff, and
4. Effective maintenance of erosion and sediment control measures during the construction period.

4.3.2 Methods used for handling, collecting, filtering, and discharging runoff from disturbed areas shall be in accordance with Section 401 (of the Clean Water Act) requirements and will be subject to review by the Owner.

4.3.3 Temporary diversion of drainage conveyances shall be accomplished to avoid erosion at the diversion location. Culverts or channel linings shall be provided where it is not possible to construct stable earth diversion conveyances.

4.3.4 Streams and water bodies in or adjacent to the construction area shall be protected from disturbance by construction operations. Measures to protect streams and water bodies shall include the following:

1. Avoidance by excessive equipment traffic,
2. Preventing siltation of streams or water bodies by construction of water conveyances, diversions, and sedimentation and erosion controls as appropriate, and
3. Cleanout and restoration where sedimentation occurs as a result of construction operations.

4.3.5 Earth moving and land grading shall be conducted in a manner to minimize erosion impact.

4.3.6 Soils and stockpiles shall not be placed in floodplain or in locations where blockage of natural drainage ways can occur.

4.3.7 Sediment depositions resulting from construction operations which are damaging or potentially damaging to the site or land offsite shall be cleaned up and disposed of as directed by the Owner

4.3.8 Haul and access roads shall be wetted with water on a frequent basis as required to prevent excessive dust.

4.3.9 The contractor shall make frequent periodic inspections of the site and installed erosion and sedimentation control measures to check effectiveness of control measures and to determine conditions needing remedial action. Control measures shall be maintained to function at full effectiveness throughout the construction period. The Contractor shall refer to the TPDES General Permit (Part III, Section F, 7(a)) to determine the standard frequency of inspection. However, inspections may be required at more frequent intervals based upon the performance of the control measures.

4.3.10 The Contractor shall submit copies of the inspection reports to the Owner within 2 working days of the inspection.

4.4 Stabilization of Distributed Areas.

4.4.1 Excess excavated material is for the Contractor's use in developing laydown areas, access roads and associated drainage features and may also be used to stabilize disturbed areas. These materials shall be used in conjunction with geotextile stabilization fabric to stabilize disturbed areas as quickly and efficiently as possible to minimize potential further disturbance.

4.5 Flood Control.

4.5.1 The Contractor shall ensure the means and methods of construction, diversion and care of water, and any related activities do not increase the risk of flooding for properties adjacent to the project area. Table 1 below provides flow information for multiple theoretical storm events within the project area. Hydrologic and hydraulic models of the existing site conditions may be made available, upon request, for the Contractor's use.

Table 1 – Unnamed Tributary to Davis Spring Branch Creek

Estimated Storm Event	Flow (cfs)
25 Year	275
100 Year	380

5. MEASUREMENT AND PAYMENT

5.1 The work performed and materials furnished as prescribed by this item, shall be paid for at the contract unit price for "Diversion and Care of Water". Payment will be made on a per month basis prorated for the duration of the project with a total bid not to exceed 2% of the overall construction cost**.** The price shall include all costs to complete the work required for the diversion and care of water including all labor, equipment, materials; and the cost of repair and maintenance of the controls.

5.2 Measures used to complete diversion and care of water tasks must comply with all requirements put forth in this specification and related regulatory documents and meet Williamson County approval before payment will be made. If measures fail or do not comply, payment will be withheld until measures comply with all requirements and are adequate to prevent the degradation of downstream waterways and prevent flooding of adjacent and upstream properties.

Special Specification WC 9032
Water Quality and Detention Pond

1. DESCRIPTION

Furnish, construct, and install proposed improvements to water quality and detention Pond 2 in accordance with City of Austin Environmental Criteria Manual and (ECM) Section 1.6.5., including the removal and disposal of the existing Pond 2 elements required for the proposed expansion, and protection of existing pond elements to remain.

2. MATERIALS

2.1 **General**. Furnish materials in accordance with the details shown on the plans, the requirements of this item, and the pertinent requirements of the following items:

Item 111S, "Excavation"
Item 132S, "Embankment"
Item 401S, "Structural Excavation and Backfill"
Item 508S, "Miscellaneous Structures and Appurtenances"
Item 509S, "Excavation Safety Systems"
Item 511S, "Water Valves"
Item 551, "Pipe Underdrains"
Item 591S, "Riprap"
Item 594S, "Gabions and Revet Mattresses"
Item 620S, "Filter Fabric"
Item 623S, "Dry Stack Rock Wall"

2.2. Filtration Bed.

2.2.1. **Filtration Bed Sand.** Furnish sand that is 0.02" – 0.04" inch diameter which corresponds with ASTM C-33 Concrete Sand.

2.2.2. **Filtration Bed Gravel**. Furnish gravel that is ½" – 1½" washed rounded river gravel.

2.3. **Underdrain.** Furnish and install SCH40 PVC Pipe of the size specified in the plans in accordance with Item 551, "Pipe Underdrains".

2.4. **Geotextile Fabric.** Furnish and install high flow filter fabric of uniform quality in accordance with City of Austin Specification 620S, "Filter Fabric".

2.5 **Sedimentation Basin Outlet Riser with Concrete Pad.** Furnish and install SCH40 PVC Riser Pipe with removable solid cap of the size specified in the plans in accordance with Item 551, "Pipe Underdrains". Perforations shall be in accordance with ECM Table 1-8 Perforated Rise Pipe. Outlet Pipe outfall shall include a removable cap with a drilled orifice per the "WQ Outlet PVC Cap" detail in the plans. Furnish and Install 5 ½' x 3 ½' x 4" thick 3500 psi concrete pad. Furnish and Install Galvanized Riser Strap with Anchor Bolts per ECM Appendix V Figure 1-53.

2.6 **Trash Rack**. Furnish and install a trash rack for the riser. The trash rack should be made out of galvanized welded wire fabric with a maximum opening size of one (1) inch by one (1) inch and made from twelve (12) gauge wire. The wire joints should be joined using galvanized "J" clips. The rack must be removable to facilitate maintenance. The trash rack should be supported by galvanized or rust-proof posts set into four (4) inch thick reinforced concrete base. The base should be square with the length of each side being three (3) feet plus the diameter of the riser pipe with the riser

centered on the base. The height of the trash rack should extend above the maximum water surface elevation or should have a removable galvanized welded wire lid. If the top of the riser pipe is more than three (3) feet high from the base, removable galvanized cross bracing is required for the riser and trash rack. A cone of two (2) to three (3) inch diameter gravel shall be placed around the pipe to enhance settling. The gravel cone must not include any gravel small enough to enter the riser pipe perforations.

2.7. Clay Liner. Furnish and install clay liner material in accordance with the following criteria:

Material Property	Requirement	Testing Standard
Liquid Limit	30	ASTM D 4318
Minimum Plasticity Index	15	ASTM D 4318
Minimum Percent Passing #200 Sieve	30%	ASTM D 422
Maximum Particle Size	< 1 inch	ASTM D 422
Maximum Laboratory Permeability	< 1x10-7 cm/sec	ASTM D

The clay liner material shall be free of organics and debris, such as tree limbs, bark, leaves, trash or other deleterious material. The maximum clay clod size during liner placement and compaction should be approximately one inch. For each potential source of pond liner material, enough material shall be provided by the earthwork contractor to run the tests listed in the table above. During permeability testing, the samples should be compacted in the laboratory to 95% of maximum dry density as determined by the Standard Proctor Test, ASTM D 698 with moisture content at time of compaction at or above optimum moisture content.

2.8. Filtration Basin Inlet Structure and Rock Flow Spreader. Furnish and Install an inlet structure to spread the flow uniformly across the surface of the filter media. See ECM Figure 1.6.5.A for flow spreader design concept. A rock flow spreader shall be provided. The Rock Riprap gradation shall comply with Class II Rock as described in ECM Section 1.4.6.D.5, Stone Riprap. Furnish and install a 3' x 3' x 4" thick 3500 psi concrete splash pad.

2.9 Filtration Basin Outfall. Furnish and Install SCH40 PVC of the pipe size specified in the plans in accordance with Item 551, “Pipe Underdrains”. Furnish and Install concrete headwall per detail 508S-15, including rock riprap.

2.10 Detention Pond Weir Plate. Furnish and Install two (2) 1.38' x 1.29' x ½ inch galvanized weir plates with anchor bolts on the existing overflow spillway.

2.11 Detention Pond Outlet PVC Cap. Furnish and Install SCH40 PVC removable solid end cap with a drilled orifice per the “Detention Outlet PVC Cap” detail in the plans on the existing 8-inch PVC Outlet pipe from the detention pond.

2.12 Dry Stack Rock Wall. Furnish and Install Dry Stack Rock Wall per detail 632S.1.

3. EQUIPMENT

Furnish all equipment necessary to construct water quality and detention pond.

4. CONSTRUCTION

4.1. General. The drawings depict the pond in its final constructed configuration including 6" of top soil and sod. Refer to the General Conditions in the Contract Documents for responsibilities relating to Submittals.

4.1.1. Quality Control Submittals. The Contractor shall submit shop drawings, samples, and product data to the Engineer for review of the following items:

1. Galvanized Riser Strap with Anchor Bolts
2. Trash Rack
3. Geotextile Fabric
4. Clay Liner
5. Gravel and sand media for filtration bed
6. Concrete Pad for Outlet Riser and Concrete Splash Pad
7. Rock for flow spreader
8. Dry Stack Rock Wall Design
9. PVC End Caps
10. Weir Plat with Anchor Bolts
11. Embankment Material
12. Gate Valve

4.2. Embankment.

4.2.1 General. Embankment shall be placed in accordance with Item No.132S, "Embankment".

4.3. Clay Liner.

4.3.1. General. The compacted clay liner placed on the bottom of the entire water quality pond should be a minimum of 12 inches thick. The liner shall be placed in maximum 6-inch thick lifts after compaction.

The clay liner shall extend below and around all concrete ramps, aprons, loose rock riprap and other miscellaneous structures within the sedimentation and filtration pond interior and sides up to an elevation no less than 1 foot above the water quality elevation of the sediment pond, and not less than 2.5 feet above the top of sand elevation of the Filtration Basin.

4.3.2. Liner Construction. The subgrade shall be compacted to at least 95% of the maximum dry density determined by Standard Proctor Test, ASTM D 698. For subgrade soil with a plasticity index (PI) of 25 or higher, the moisture content at time of compaction shall be between optimum and 4% above optimum. If the subgrade soil has a plasticity index (PI) of less than 25, the moisture content at the time of compaction shall be at optimum +/- 3%. Loose material shall be removed from excavated subgrade prior to clay liner construction.

The clay liner is to be constructed monolithically in the bottom and sides of the ponds bays.

Material for clay liner to be placed in maximum 6" lifts after compaction. Compact lifts with appropriately sized motorized compaction equipment. A minimum of 2 passes shall be required for each lift with a pass defined as one trip of compacting equipment over the lift and back to the starting point. This requirement is to provide thorough remolding of the clay. The final 6-inch lift of the clay liner shall be compacted in a manner that provides a relatively smooth finish to the completely clay surface.

Each lift of the clay liner shall be to 95% of the maximum dry density with moisture content at time of compaction at or above optimum before the next lift is placed.

Cracking and/or crusting of each lift surface shall be avoided as much as possible. If cracking and/or crusting of the lift surface occurs before placement of the next lift, this area shall be sprinkled with water, scarified to a depth below the cracking/crusting, and re-compacted as outlined above before the placement of a subsequent lift. During construction, all finished lifts or portions of the liner shall be kept wet enough to prevent drying and cracking of the clay.

Sections of liner that are constructed next to a completed section shall not be constructed by "butting" the entire thickness of the new liner section next to the completed section. Instead, the edge of the complete section of liner shall be benched at mid-depth for a minimum 12-inch width such that the section being constructed and the completed section are offset in a stair-step fashion without a construction joint through the entire liner thickness.

At the end of each day's operation, completed lifts or sections of the compacted clay liner shall be kept wet enough to prevent drying and cracking of the liner prior to the commencement of construction. Any areas of the liner which do not

meet moisture or density requirements during testing shall be reworked and retested until the constructed liner meets the specification.

Following the completion of the final lift, the liner is to be kept wet by watering the liner regularly until the 6" topsoil overlay is in place. Liner must not be allowed to dry out which would cause cracks to form in the liner surface.

4.3.3. Liner Field Testing. The clay liner shall be compacted to at least 95% of the maximum dry density as determined by Standard Proctor Test, ASTM D698. The moisture content of the material at time of compaction shall be at or above the optimum moisture content.

Individual lifts are to be tested for moisture and density upon completion of the compaction (and prior to the subsequent lift) using a nuclear density gauge. The resulting penetration of the driving pin of the density gauge in the material shall be back filled with bentonite powder.

The frequency of testing of the clay liner during construction shall be governed by the following criteria.

Test	Test Requirement	Testing Frequency	Testing Standard
In Place Nuclear Density	Greater than 95%	1 per 5,000 sf per lift (minimum of 3 per lift)	ASTM D 2922
In Place Nuclear Moisture	Greater than optimum	1 per 5,000 sf per lift (minimum of 3 per lift)	ASTM D 3017
Liquid Limit	Greater than 30	At 25%, 50%, 75% and 100% of liner construction	ASTM D 4318
Plasticity Index	Greater than 15**	At 25%, 50%, 75% and 100% of liner construction	ASTM D 4318
% Passing #200 Sieve	Greater than 30%	At 25%, 50%, 75% and 100% of liner construction	ASTM D 422
Maximum Particle Size	Less than 1 inch	At 25%, 50%, 75% and 100% of liner construction	ASTM D 422
Completed Liner Thickness	Surveyed Liner Thickness	At beginning and end of liner construction	Survey by RPLS
Thickness of Topsoil over Liner	Surveyed Topsoil Thickness	At beginning and end of liner cover construction	Survey by RPLS

**The plasticity index (PI) should be within 10 percentage points of the PI determined during lab testing of the proposed liner material.

The as-built thickness of the clay liner and the topsoil protective liner cover shall be determined by survey performed by an RPLS registered in the State of Texas. Prior to the placement of any portion of the clay liner, the subgrade shall be surveyed in a sufficient manner to establish the pond bottom. Upon completion of the line and prior to the placement of any other pond elements, the top of the liner shall be surveyed to verify the specified thickness of the liner has been achieved and the top of the liner is at the Engineer's specified grades and slopes, within a tolerance of +/- 0.2 feet. The same data points should be used for both pre and post liner construction surveys. The same data points should be used to survey the pond upon completion of the topsoil cover layer or sand bed installation.

4.3.4. Liner Repair. Any area of the clay liner that becomes damaged during construction shall be over excavated to at least one foot beyond the extents of the damaged area in all directions. The full depth of the liner shall be reconstructed in the damaged area using the above specifications.

Between the undamaged and damaged portion of the liner, the clay shall be benched at mid-depth such that the area being repaired and the undisturbed section are offset in stair-step fashion with no construction joint allow through the full depth of the liner.

Compaction equipment appropriate to the size of the repair shall be utilized. All repaired areas shall be tested against the project specifications for the moisture and density listed above prior to liner acceptance. All repairs that do not meet the density and moisture specifications shall be reworked and retested.

4.3.5. Liner Documentation. Test reports shall be issued for all tests performed and shall indicate whether the test result is in compliance with the project specifications. The Construction Materials Testing firm shall issue a daily representative's report. This report shall include, at a minimum:

- Date of Testing
- Identification of CMT field technician
- A description of the work performed during the day
- Type(s) of equipment used by the contractor
- Tests performed by the CMT field technician
- Any failed tests or non-compliant areas that require retesting or other corrective action

5. MEASUREMENT

This item will be measured by each water quality and detention pond constructed.

6. PAYMENT

The work performed and the materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Water Quality and Detention Pond." The price is full compensation for all materials, excavation, embankment, outfall structures, sand and gravel media, access drive, clay liner, filter fabric, rock riprap, trickle channels, valves, cleanouts, orifice plates, weir plates, trash rack, concrete pads, dry stack rock wall, PVC caps, outlet and inlet structures, removal and disposal of existing pond elements, and construction survey to provide a complete water quality and detention pond in accordance with the plans. This price shall include all final finishing, and all necessary equipment, labor, tools, and incidentals.

Fencing will be paid for at the unit price bid for Chain Link Fence (Install)(6') per linear foot. Access Gate will be paid for at the unit price bid for Chain Link Fence Gate (Install)(6'x16') per each. Topsoil will be paid for at the unit price bid for Class C (Top Soil), Plan Quantity per Cubic Yard. Gate Valve will be paid for at the unit price bid for gate valve (6") per each. Underdrain piping will be paid for at the unit price bid for Pipe Underdrains (6" PVC) per Linear Foot. Sodding will be paid for at the unit price bid for Bermuda Sodding or St Augustine Sodding per Square Yard.

Special Specification WC 9033
Concrete Washout Area

1. DESCRIPTION

Furnish, construct, and install concrete washout area.

2. MATERIALS

2.1 **General**. Concrete waste management involves designating and properly managing a specific area of the construction site as a concrete washout area. A concrete washout area can be created using one of several approaches designed to receive wash water from washing tools and concrete mixer chutes, liquid concrete waster from dump trucks, mobile batch mixers, or pump trucks. While three basic approaches are available this specification will focus on use of an above ground storage area. Surface discharge of concrete washout water from construction site are prohibited.

2.2. Appropriate Uses.

Concrete washout area must be designated on all sites that will generate concrete wash water or liquid concrete waste from onsite concrete mixing or concrete delivery.

3. CONSTRUCTION

3.1. Installation

3.1.1 Concrete washout activities must be conducted in a manner that does not contribute to pollutants to surface waters or storm water runoff. Concrete washout areas may be aboveground holding areas constructed of berms, sandbags, or straw bales with a plastic liner.

Design details are provided on Erosion Control Details 5 sheet in the plan set. Additional notes are provided below:

1. See plans for location of concrete washout area.
2. The concrete washout area shall be installed prior to concrete placement on site.
3. The concrete washout area shall include an above ground holding area that is 10’ by 10’.
4. Berm surrounding sides and back of the concrete washout area shall be constructed of straw bales and have a minimum height of 1.5’.
5. A construction entrance shall be included at the approach to the concrete washout area, and shall be sloped 2% toward the concrete washout area.
6. Signs shall be placed at the construction entrance, at the concrete washout area, and elsewhere as necessary to clearly indicate the location of the concrete washout area to operators of concrete trucks and pump rigs.

3.2. Maintenance and Removal

3.2.1 A key consideration for concrete washout areas is to ensure adequate signage is in place identifying the location of the washout area. Part of inspecting and maintaining washout areas is ensuring that adequate signage is provided and in good repair and that the washout is being used, as opposed to washout in non-designated areas of the site.

Remove concrete waster in the washout area, as needed to maintain BMP functionality (typically when filled to about two-thirds its capacity). Collect concrete waste and deliver offsite to a designated disposal location.

Concrete Washout Area maintenance activities include the following:

1. The Concrete washout area shall be repaired, cleaned, or enlarged as necessary to maintain capacity for concrete waste.
2. Concrete washout water, wasted pieces of concrete and all other debris shall be transported from the job site in a water-tight container and disposed of properly
3. The concrete washout area shall remain in place until all concrete for the project is placed.
4. When the concrete washout area is removed, cover the disturbed area with top soil, and seed or sod as shown on the drawings.

3.2.2 Upon termination of use of the washout site, accumulated solid waste, including concrete waste and any contaminated soils, must be removed from the site to prevent on-site disposal of solid waste. If the wash water is allowed to evaporate and the concrete hardens, it may be recycled.

4. MEASUREMENT AND PAYMENT

4.1 Measurement shall be made by the EACH for construction, maintenance, and removal of a complete concrete washout area as described in the plans and specifications, constructed in the completed and accepted final position including construction entrance and signage.

4.2 The work performed and materials furnished in accordance with this Item and measured under “Measurement” for the concrete washout area will be paid for at the unit price bid for “concrete washout area” complete and in place. This price is full compensation for (and not limited to) construction, maintenance, and removal of a complete concrete washout area as described in the plans and specifications, constructed in the completed and accepted final position including construction entrance and signage. This price shall include all final finishing, and all necessary equipment, labor, tools, and incidentals.

APPENDIX A

QUALITY CONTROL / QUALITY ASSURANCE PROGRAM

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Appendix A

Quality Control / Quality Assurance Program

Section 1. Overview

Introduction

Williamson County has established the following Quality Control (QC) / Quality Assurance (QA) Program to assure that the materials and workmanship incorporated into any roadway or highway construction project are in reasonable conformity with the requirements of the approved plans and specifications, including any approved changes. It consists of an "Acceptance Program" and a “QA Program" based on test results obtained by qualified persons and equipment.

This QC/QA Program allows for the use of validated contractor-performed QC test results as part of an acceptance decision. It also allows for the use of test results obtained by commercial laboratories in the QA Program in acceptance decisions, as well. The effectiveness of the “Acceptance Program” shall be the responsibility of the Construction Observer.

Definitions

Acceptance Program - All factors that comprise the Williamson County's determination of the quality of the product as specified in the contract requirements. These factors include QC and QA verification sampling and testing, and inspection.

Quality Control Program - The contractor’s systematic program detailing the control measures and reporting requirements necessary to achieve reasonable conformance with the requirements of the approved plans and specifications.

Quality Assurance Program - Activities that are an unbiased and independent evaluation of all the inspection, sampling and testing procedures used in the acceptance program.

Proficiency Samples - Homogenous samples that are distributed and tested by two or more laboratories and/or personnel. The test results are compared to assure that the laboratories and/or personnel are obtaining the same results.

Qualified Laboratories - Laboratories that are capable as defined by appropriate programs established by Williamson County and as indicated in the "Laboratory Qualification Program". As a minimum, the qualification program shall include provisions for checking testing equipment and the laboratory shall keep records of calibration checks.

Qualified Sampling and Testing Personnel - Personnel who are capable as defined by appropriate programs established as stated in Section 6 of this Appendix.

Quality Assurance – All those planned and systematic actions necessary to provide confidence that a product or service will satisfy given requirements for quality.

Quality Control - All contractor/vendor operational techniques and activities that are performed or conducted to fulfill the contract requirements.

Vendor – A supplier of project-produced material that is not the contractor.

Verification Sampling and Testing - Sampling and testing performed to validate the quality of the product, which consists of the QC and QA sampling and testing.

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Section 2. Acceptance Program

Materials incorporated into any roadway or highway construction project shall be subject to verification sampling and testing, and inspection as part of the QC program outlined below:

- Quality Control Inspection

  - Contractor-performed QC Inspection will be required as part of the acceptance decision. Inspection check lists for the following structural items shall be completed and submitted as part of the acceptance program:

    Item 400 – Excavation & Backfill
    Item 416 – Drilled Shaft Foundations
    Item 420 – Concrete Structures
    Item 421 – Hydraulic Cement Concrete
    Item 422 – Bridge Deck
    Item 423 – Retaining Wall
    Item 425 – Precast Pre-stressed Concrete Structural Members
    Item 440 – Reinforcing Steel
    Item 442 – Metal for Structures
    Item 462 – Concrete Box Culverts
    Item 464 – Reinforced Concrete Pipe

    Sample Inspection check lists are included at the end of this Appendix.

  - The contractor shall designate individual(s) responsible for the QC Inspection for the project or each work element thereof. The designated QC individual(s) will maintain responsibility for providing reports detailing the compliance of each work element to the requirements of the approved project plans and specifications.

  - The QC report will detail requirements of the approved project plans and specifications and measures initiated to ensure reasonable conformity.

  - The contactor shall submit the QC Plan for acceptance detailing the individuals & methods(s) intended to be used to obtain reasonable conformance to the approved project plans and specifications.

- Quality Control Sampling, Testing and frequency

  - Contractor-performed QC sampling and testing will be used as part of an acceptance decision.

  - The frequency and location will be according to the “Project Test” frequency as shown in Appendix B. This project has been designed utilizing TxDOT Specifications; therefore, the 2005 TxDOT Guide Schedule for Sampling and Testing has been adopted for the testing program. As a County-developed project, all references to TxDOT in the testing program shall be understood to mean Williamson County, and all references to the Engineer shall be understood to mean the County Engineer or his designated representative(s).

  - These QC sampling and testing personnel, laboratories, and equipment shall be qualified according to the "Sampling and Testing Personnel Qualification Program" and the "Laboratory Qualification Program" and shall be evaluated under the "Quality Assurance Program" contained herein.

- Any equipment used to perform QC sampling and testing shall be subject to an evaluation by QA sampling and testing personnel. This evaluation shall include calibration checks and split or proficiency sample tests. The requirements for, and frequency of, equipment calibration are shown in Appendix B. Acceptable tolerance limits for the comparison of test results from split or proficiency samples are shown in “Acceptable Tolerance Limits for Independent Assurance.”

- Any individual who performs verification or QC sampling and testing shall be evaluated by QA sampling and testing personnel. This evaluation shall include observations and split or proficiency sample testing. Acceptable tolerance limits for the comparison of test results for split or proficiency samples are shown in "Acceptable Tolerance Limits for Quality Assurance."

- Furthermore, these QC test results may be validated by verification test results obtained from independently taken samples at the direction of the Construction Observer or the County.

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Section 3. Quality Assurance Program

This Quality Assurance Program; as deemed necessary by the County or the Construction Observer; shall evaluate all QC inspection, sampling and testing procedures, personnel, and equipment used as part of the acceptance program.

- QA Inspection
  - The Construction Observer will be responsible for QA inspection. The inspection will be performed at periodic intervals to assure compliance with the accepted QC program, as well as to assure reasonable close conformity to the approved project plans and specifications.
- Sampling and Testing Frequency and Location
  - Quality Assurance sampling and testing shall be performed at the same location and frequency established for the Project Tests in the "Guide Schedule of Sampling and Testing" found in Appendix B.
  - The frequency for the “Independent Assurance Tests” shall be as directed by the Construction Observer.
- Testing Equipment
  - Laboratory testing equipment used for QA sampling and testing shall be qualified according to the "Laboratory Qualification Program."
  - All laboratories used for QA sampling and testing must be AASHTO accredited and listed as an accepted Lab by the County.
  - The frequency for qualifying QA sampling and testing equipment shall not exceed one (1) year or as directed by the Construction Observer.
  - Calibration/verification is required whenever the laboratory or equipment is moved.
  - The QA equipment shall be other than that used for performing verification or QC testing.
- Testing Personnel
  - Laboratory personnel who perform QA sampling and testing shall be in accordance with the "Sampling and Testing Personnel Qualification Program" Included herein.
  - The individuals performing QA sampling and testing shall be other than those who perform other verification or QC testing.
- Comparison of QC and QA Test Results
  - Acceptable tolerance limits for the comparison of test results from split and proficiency samples are shown in "Acceptable Tolerance Limits for Independence Assurance."
  - If the comparison of the test results do not comply with the tolerances, an engineering review of the test procedures and equipment shall be performed immediately to determine the source of the discrepancy.
  - Corrective actions must be identified and incorporated as appropriate.

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Test results from all samples involved in the Quality Assurance Program shall be documented and reported in the project files.

- Dispute Resolution System

    - Testing disputes arising between the Construction Observer, or his/her designated agents, and the Contractor shall be resolved in a reliable, unbiased manner. The decision of the County, the Construction Observer, or their authorized representatives will be final.

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Section 4. Materials Certification

The Independent Assurance agency shall submit a "Certificate of Materials" to the Construction Observer indicating the conformity of tested materials to the approved plans and specifications including any exceptions, if applicable.

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Section 5. Conflict of Interest

To avoid an appearance of a conflict of interest, sampling and testing of materials under the QA program shall be performed at a qualified laboratory other than the laboratory used for project testing by the Contractor.

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Section 6. Sampling and Testing Personnel Qualification Program

Purpose

This program provides uniform Countywide procedures for sampling and testing personnel qualification to ensure that tests required by the specifications are performed according to the prescribed sampling and testing methods.

Sampling and Testing Personnel Qualification

Sampling and testing personnel will be qualified to perform tests for the acceptance of materials in the areas of Portland cement concrete, soils and aggregates and bituminous materials. The test methods for which individuals can be qualified include, but are not limited to, the following.
(* Denotes tests on which split or proficiency sample evaluations are required.)

Soils & Aggregates (100-E Series & 400-A Series)
Tex-101-E, Preparing Soil and Flexible Base Materials for Testing

Tex-102-E, Determining Slaking Time

Tex-103-E, Determining Moisture Content in Soil Materials

Tex-104-E, Determining Liquid Limit of Soils*

Tex-105-E, Determining Plastic Limit of Soils*

Tex-106-E, Calculating the Plasticity Index of Soils*

Tex-107-E, Determining the Bar Linear Shrinkage of Soils*

Tex-108-E, Determining the Specific Gravity of Soils

Tex-110-E, Particle Size Analysis of Soils*

Tex-111-E, Determining the Amount of Material in Soils Finer than 75 m (No.200) Sieve

Tex-113-E, Laboratory Compaction Characteristics and Moisture-Density Relationship of Base Materials

Tex-114-E, Laboratory Compaction Characteristics and Moisture-Density Relationship of Subgrade and Embankment Soils

Tex-115-E, Field Method for Determining In-Place Density of Soils and Base Materials

Tex-116-E, Ball Mill Method for Determining the Disintegration of Flexible Base Material

Tex-117-E, Triaxial Compression Tests for Disturbed Soils and Base Materials

Tex-120-E, Soil-Cement Testing

Tex-121-E, Soil-Lime Testing

Tex-126-E, Molding, Testing, and Evaluating Bituminous Black Base Materials*

Tex-127-E, Lime Fly-Ash Compressive Strength Test Methods
Tex-128-E, Determining Soil pH

Tex-129-E, Measuring the Resistivity of Soil Materials

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Tex-140-E, Measuring Thickness of Pavement Layer

Tex-400-A, Sampling Stone, Gravel, Sand, and Mineral Aggregates

Tex-401-A, Sieve Analysis of Fine and Coarse Aggregate*

Tex-402-A, Fineness Modulus of Fine Aggregate

Tex-403-A, Saturated Surface Dry Specific Gravity and Absorption of Aggregates

Tex-404-A, Determining Unit Mass (Weight) of Aggregates

Tex-405-A, Determining Percent Solids and Voids in Concrete Aggregates

Tex-406-A, Material Finer Than 75 m (No. 200) Sieve in Mineral Aggregates (Decantation Test for Concrete Aggregates)

Tex-408-A, Organic Impurities in Fine Aggregate for Concrete

Tex-409-A, Free Moisture and Water Absorption in Aggregate for Concrete

Tex-409-A, Free Moisture and Water Absorption in Aggregate for Concrete

Tex-411-A, Soundness of Aggregate by Using Sodium Sulfate or Magnesium Sulfate

Tex-413-A, Determining Deleterious Materials in Mineral Aggregates

Tex-425-A, Determining Moisture Content in Fine Aggregate by the "Speedy" Moisture Method

Tex-460-A, Determining Crushed Face Particle Count

Bituminous (200-F Series)

Tex-200-F, Sieve Analysis of Fine and Coarse Aggregate*

Tex-201-F, Bulk Specific Gravity and Water Absorption of Aggregate

Tex-202-F, Apparent Specific Gravity of Material Finer than 180 m (No. 80) Sieve

Tex-203-F, Sand Equivalent Test*

Tex-204-F, Design of Bituminous Mixtures

Tex-205-F, Laboratory Method of Mixing Bituminous Mixtures

Tex-206-F, Compacting Test Specimens of Bituminous Mixtures*

Tex-207-F, Determining Density of Compacted Bituminous Mixtures*

Tex-208-F, Test for Stabilometer Value of Bituminous Mixtures*

Tex-210-F, Determining Asphalt Content of Bituminous Mixtures by Extraction*

Tex-211-F, Recovery of Asphalt from Bituminous Mixtures by the Abson Process

Tex-212-F, Determining Moisture Content of Bituminous Mixtures

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Tex-213-F, Determining Hydrocarbon-Volatile Content of Bituminous Mixtures

Tex-217-F, Determining Deleterious Material and Decantation Test for Coarse Aggregates

Tex-221-F, Sampling Aggregate for Bituminous Mixtures, Surface Treatments and Limestone Rock Asphalt

Tex-222-F, Sampling Bituminous Mixtures

Tex-224-F, Determining Flakiness Index

Tex-226-F, Indirect Tensile Strength Test

Tex-227-F, Theoretical Maximum Specific Gravity of Bituminous Mixtures*

Tex-228-F, Determining Asphalt Content of Bituminous Mixtures by the Nuclear Method*

Tex-229-F, Combined HMAC Cold-Belt Sampling and Testing Procedure

Tex-236-F, Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method*

Concrete (400-A Series)

Tex-407-A, Sampling Freshly-Mixed Concrete

Tex-414-A, Air Content of Freshly Mixed Concrete by the Volumetric Method*

Tex-415-A, Slump of Portland Cement Concrete*

Tex-416-A, Air Content of Freshly Mixed Concrete by the Pressure Method*

Tex-417-A, Unit Weight, Yield, and Air Content (Gravimetric) of Concrete

Tex-418-A, Compressive Strength of Cylindrical Concrete Specimens*

Tex-419-A, Compressive Strength of Concrete Using Portions of Beams Broken in Flexure

Tex-424-A, Obtaining and Testing Drilled Cores of Concrete

Tex-436-A, Measuring Texture Depth by the Sand Patch Method

Tex-437-A, Test for Flow of Grout Mixtures (Flow Cone Method)

Tex-447-A, Making and Curing Concrete Test Specimens

Tex-448-A, Flexural Strength of Concrete Using Simple Beam Third-Point Loading*

Tex-450-A, Capping Cylindrical Concrete Specimens

Tex-460-A, Determining Crushed Face Particle Count

Asphalt (500-C Series)

Tex-502-C, Penetration of Bituminous Materials (refer to AASHTO T 49)

Tex-530-C, Effect of Water on Bituminous Paving Mixtures

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Tex-531-C, Prediction of Moisture-Induced Damage to Bituminous Paving Materials Using Molded Specimens

Tex-1000-S, Operating Pavement Profilograph and Evaluating Profiles

Who Must Be Qualified?

Any individual who performs tests on materials for acceptance must be qualified.

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Qualification of Sampling and Testing Personnel

All sampling and testing personnel for approved laboratories shall be qualified to do the work in accordance with "Laboratory Qualification Program".

Each laboratory shall maintain a minimum of one (1) qualified individual for each test procedure performed.

Section 7. Laboratory Qualification Program

Purpose

This program provides uniform countywide procedures to ensure that laboratory facilities and equipment are adequate for the performance of required sampling and testing methods.

Laboratories

All laboratories that perform testing for Williamson County must be accredited under the AASHTO Laboratory Accreditation Program. These include, but are not limited to the following:

- Area/project laboratories (includes field laboratories)
- Commercial laboratories
- Contractor laboratories
- Vendor laboratories (material suppliers).

The most current AASHTO accredited laboratories in the State of Texas can be obtained at http://patapsco.nist.gov/aashto/amrl/services/aap_intro.htm. In addition, Appendix C includes a list of AASHTO accredited laboratories obtained at the time this document was prepared.

Laboratory Qualification Responsibility

The Construction Observer or his/her authorized representatives will be responsible to ensure all QA laboratories used for project and QA testing and sampling are qualified.

Qualification Process

The laboratory qualifying authority will:

- identify the scope of testing to be performed
- verify that manuals and/or test methods used to perform tests are available and up-to-date
- document that the laboratory has the required equipment to perform the tests
- check the calibration/verification records for each piece of equipment, to include:
    - description of equipment
    - identification of any traceable standard used
    - frequency of calibration
    - date of last calibration
    - date of next calibration
    - procedure used to calibrate equipment
    - procedure used to identify equipment not in compliance.

In addition, all equipment may be subjected to calibration verification or other inspection by the qualifying authority.

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Calibration Standards and Frequencies for Laboratory Equipment

The standards for calibration and the frequencies for laboratory equipment calibrations shall be in accordance with appropriate testing equipment measures as indicated in the Texas Department of Transportation Manual of Testing Procedures. 100-E (Soils), 200-F (Bituminous), and 400-A (Concrete) series of TxDOT's *Manual of Testing Procedures*.

Frequency for Laboratory Qualification

Laboratories shall be qualified at an interval not to exceed six (6) months, or as directed by the Construction Observer. Calibration/verification is required whenever the laboratory or equipment is moved.

Non-Compliance

A laboratory that does not meet the above requirements is subject to disqualification. Any equipment in a qualified laboratory failing to meet specified equipment requirements for a specific test method shall not be used for that test method.

Documentation

The Construction Observer will be responsible for verifying that laboratories are qualified to perform material testing. Documentation will be required to be kept by the qualified laboratory. Calibration records will be maintained for three (3) years, unless directed otherwise by the Construction Observer.

Dispute Resolution

The County will have the final decision regarding all disputes of the laboratory qualification and calibration of testing equipment.

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Section 8. Acceptable Tolerance Limits for Quality Assurance

The following tables indicate the acceptable tolerance limits for the specified material.

Embankment

Embankment		
Procedure	**Texas Test Method**	**Tolerance**
In-place Density	"Tex-115-E, Field Method for Determining In-Place Density of Soils and Base Materials"	± 2.5% Field Density

Untreated & Treated Sub-base and Base Courses

Untreated & Treated Sub-base and Base Courses		
Procedure	**Texas Test Method**	**Tolerance**
In-place Density	"Tex-115-E, Field Method for Determining In-Place Density of Soils and Base Materials"	± 2.5% Field Density
Gradation:	"Tex-110-E, Particle Size Analysis of Soils"	-
> No. 4 ≤ No. 4	-	± 5% ± 3%
Liquid Limit	"Tex-104-E, Determining Liquid Limit of Soils"	15% of the mean*
Plasticity Index	"Tex-106-E, Calculating the Plasticity Index of Soils"	20% of the mean*

Asphalt Stabilized Base

Asphalt Stabilized Base		
Procedure	**Texas Test Method**	**Tolerance**
Gradation:	"Tex-200-F, Sieve Analysis of Fine and Coarse Aggregates"	-
> No. 4 ≤ No. 4	-	± 5% ± 3%
Liquid Limit	"Tex-104-E, Determining Liquid Limit of Soils"	15% of the mean*
Plasticity Index	"Tex-106-E, Calculating the Plasticity Index of Soils"	20% of the mean*
Percent Asphalt	"Tex-210-F, Determining Asphalt Content of Bituminous Mixtures by Extraction"	± 0.3%
-	"Tex-228-F, Determining Asphalt Content of Bituminous Mixtures by the Nuclear Method"	± 0.3%

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-	"Tex-126-E, Molding, Testing, and Evaluating Bituminous Black Base Materials"	± 0.3%
-	"Tex-229-F, Combined HMAC Cold-belt Sampling and Testing Procedure"	± 0.3%
-	"Tex-236-F, Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method"	± 0.3%
In-place Density (Cores)	"Tex-207-F, Determining Density of Compacted Bituminous Mixtures"	± 1% Field Density

Surface Treatment Aggregates

Surface Treatment Aggregates		
Procedure	**Texas Test Method**	**Tolerance**
Gradation:	"Tex-200-F, Sieve Analysis of Fine and Coarse Aggregates"	-
> No. 4 ≤ No. 4	-	± 5% ± 3%

Portland Cement Concrete Coarse Aggregate

Portland Cement Concrete Coarse Aggregate		
Procedure	**Texas Test Method**	**Tolerance**
Gradation:	"Tex-401-A, Sieve Analysis of Fine and Coarse Aggregate"	-
> No. 4 ≤ No. 4	-	± 5% ± 3%

Portland Cement Concrete Fine Aggregate

Portland Cement Concrete Fine Aggregate		
Procedure	**Texas Test Method**	**Tolerance**
Gradation (3/8" through No. 200)	"Tex-401-A, Sieve Analysis of Fine and Coarse Aggregate"	± 3%
Sand Equivalent	"Tex-203-F, Sand Equivalent Test"	± 10

Portland Cement Concrete Complete Mixture

Portland Cement Concrete Complete Mixture		
Procedure	**Texas Test Method**	**Tolerance**
Flexural Strength Compressive	1. "Tex-448-A, Flexural Strength of Concrete Using Simple Beam Third-Point Loading" 2. "Tex-418-A, Compressive Strength of Cylindrical Concrete Specimens"	20% of the mean*

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Slump	"Tex-415-A, Slump of Portland Cement Concrete"	± 1.0"
Entrained Air	3. "Tex-414-A, Air Content of Freshly Mixed Concrete by the Volumetric Method" 4. "Tex-416-A, Air Content of Freshly Mixed Concrete by the Pressure Method"	± 1%

Asphaltic Concrete Coarse Aggregate

Asphaltic Concrete Coarse Aggregate		
Procedure	**Texas Test Method**	**Tolerance**
Gradation: > No. 10 ≤ No. 10	"Tex-200-F, Sieve Analysis of Fine and Coarse Aggregates" -	- ± 5% ± 3%
Deleterious Material	"Tex-217-F, Determining Deleterious Material and Decantation Test for Coarse Aggregates"	± 0.3 %
Decantation	"Tex-217-F, Determining Deleterious Material and Decantation Test for Coarse Aggregates"	20% of the mean*

Asphaltic Concrete Fine Aggregate

Asphaltic Concrete Fine Aggregate		
Procedure	**Texas Test Method**	**Tolerance**
Gradation (No. 10 through No. 200)	"Tex-200-F, Sieve Analysis of Fine and Coarse Aggregates"	± 3%
Bar Linear Shrinkage	"Tex-107-E, Determining the Bar Linear Shrinkage of Materials"	± 2

Asphaltic Concrete Combined Aggregate

Asphaltic Concrete Combined Aggregate		
Procedure	**Texas Test Method**	**Tolerance**
Gradation: > 5/8" 5/8" through No. 200 Passing No. 200	"Tex-200-F, Sieve Analysis of Fine and Coarse Aggregates" -	- ± 5% ± 3% ± 1.5%
Sand Equivalent	"Tex-203-F, Sand Equivalent Test"	± 10

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Asphaltic Concrete Complete Mixture

Asphaltic Concrete Complete Mixture		
Procedure	**Texas Test Method**	**Tolerance**
Asphalt Content	"Tex-210-F, Determining Asphalt Content of Bituminous Mixtures by Extraction"	± 0.3%
-	"Tex-228-F, Determining Asphalt Content of Bituminous Mixtures by the Nuclear Method"	± 0.3%
-	"Tex-229-F, Combined HMAC Cold-belt Sampling and Testing Procedure"	± 0.3%
-	"Tex-236-F, Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method"	± 0.3%
Maximum Theoretical Specific Gravity	"Tex-227-F, Theoretical Maximum Specific Gravity of Bituminous Mixtures"	± 0.020
Laboratory Molded Density	"Tex-207-F, Determining Density of Compacted Bituminous Mixtures"	± 1.0%
Laboratory Molded Bulk Specific Gravity	"Tex-207-F, Determining Density of Compacted Bituminous Mixtures"	± 0.020
Stability	"Tex-208-F, Test for Stabilometer Value of Bituminous Mixtures"	5 points
Moisture	"Tex-212-F, Determining Moisture Content of Bituminous Mixtures"	± 0.2 mL
In-place Air Voids (Core)	"Tex-207-F, Determining Density of Compacted Bituminous Mixtures"	± 1.0%

NOTE: The above tolerances are to be used when comparison of test results is by split samples. A tolerance of plus or minus two (2) standard deviations shall be used when comparison of test results is by proficiency samples.

*The difference between compared test results shall not exceed the indicated percentage of the mean of the compared test results - the mean being the average of the two test results.

EXAMPLE: Plasticity Index	
Job Control test value	18
IA Test value	22
Mean	20
20% difference	4

Both values are within 20% of the mean.

Approved December 2007

Williamson County Road Bond Program
Construction Quality Control & Quality Assurance Program

Inspection Check Lists

Williamson County
Road Bond Program
Inspection Check Lists

Spec Item:	400 – Excavation & Backfill for Structures	Report No.:	
Description:		Date:	
Location:		Time:	

QC Reviewer: _____

Results: ☐ Accepted ☐ Not Accepted

Remarks: _____

QC Reviewer Signature: _____

Excavation and Backfill for Structures	**Yes**	**No**	**NA**
I. Excavation (400.3)			
1. Whenever excavating for installing structures across private property beyond the limits of the embankment, is the top soil removed prior excavation and kept separate and later replaced, as nearly as feasible, in its original position?	☐	☐	☐
2. If trench excavation deeper than five (5) feet, is trench protection required?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

		Yes	No	NA
3.	When old or abandoned structures or foundations are encountered in the excavation, are they removed for the full width of the excavation and to a depth of one (1) foot below the bottom of the excavation?	☐	☐	☐
4.	During construction, did the contractor receive approval from the Engineer of Record before laying any structures in the presence of water?	☐	☐	☐
5.	If the excavation cannot be dewatered to the point where the subgrade is free of mud, was a concrete mixture with not less than three (3) sacks of cement per cubic yard (or other material approved by the Engineer of Record) placed a minimum of three (3) inches in depth in the bottom of the excavation?	☐	☐	☐
6.	For all culverts where the soil encountered at established footing grade is an unstable or incompressible material is the procedure shown in Item 400.3.A.4 followed unless other methods are called for in the plans?	☐	☐	☐
7.	Unless otherwise shown on the plans, are all sewer pipe structures constructed in an open cut with vertical sides to a point one (1) foot above the pipe?	☐	☐	☐
8.	Are all vertical sides sheeted and braced when necessary to maintain the required vertical excavation throughout the construction?	☐	☐	☐
9.	For pipe to be installed in a fill section was the embankment constructed to one (1) foot above the top of the pipe and then excavated for the pipe?	☐	☐	☐

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	Yes	No	NA
10. Is the trench excavated to the width and elevations as shown in the plans?	☐	☐	☐
11. Is the pipe, culvert, etc., properly centered in the trench?	☐	☐	☐

II. Shaping and Bedding (400.3.B)

1. For precast box sections and pipe, is the bedding in accordance with Item 400.3.B unless otherwise shown on the plans?	☐	☐	☐
2. For precast pipe and box sections where cement stabilized backfill is indicated on the plans, is the excavation undercut a minimum 4 inches and backfilled with stabilized material to support the pipe at the required grade?	☐	☐	☐

III. Backfill – General (400.3.C)

1. Is backfill material free from stones of such size as to interfere with compaction, large or frozen lumps which will not break down readily under compaction; and wood or other extraneous material?	☐	☐	☐
2. a. Is backfill in areas not supporting any portion of the completed roadbed, retaining wall or embankment, placed in layers not more than ten (10) inches in depth (loose measurement)?	☐	☐	☐
b. Is backfill which will support any portion of the roadbed, retaining wall or embankment, placed in uniform layers not to exceed eight (8) inches in depth (loose measurement)?	☐	☐	☐

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	Yes	No	NA
3. Is each layer of backfill material to the moisture content needed to obtain the required density?	☐	☐	☐
4. If a cohesionless material, such as sand, is used, is it compacted with vibratory equipment, water ponding or a combination of both?	☐	☐	☐

IV. Backfill – Bridge Foundations, Retaining Walls and Culverts (400.3.C.2)

1. Is the material used for backfilling free of any appreciable amount of gravel or stone particles more than four (4) inches in greatest dimension and of a gradation that permits thorough compaction?	☐	☐	☐
2. Are mechanical tamps or rammers required when the structure being backfilled could sustain damage from other compacting operations?	☐	☐	☐
3. Are any special density requirements for backfill under or adjacent to structures met?	☐	☐	☐

V. Backfill – Pipe (400.3.C.3)

1. After the bedding and pipes have been installed as required, is the selected backfill materials brought to proper moisture condition, placed along both sides of the pipe equally, in uniform layers not exceeding eight (8) inches in depth (loose measurement), and thoroughly compacted mechanically?	☐	☐	☐

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	Yes	No	NA
2. Is the method of backfill in question 1 above continued in this manner to the top of pipe elevation and compacted in accordance with Item 400.3.C.1?	☐	☐	☐

_____

_____

VI. Cement Stabilized Backfill (400.3.C.4)

	Yes	No	NA
1. When required by plans, is cement stabilized backfill or flowable backfill placed equally along all sides of the structure, so as to prevent strain on or displacement of the structure; and are all voids filled?	☐	☐	☐

_____

_____

Williamson County
Road Bond Program
Inspection Check Lists

Spec Item: 416 – Drilled Shaft Foundations
Description: _____
Location: _____
Report No.: _____
Date: _____
Time: _____

QC Reviewer: _____

Results: ☐ Accepted ☐ Not Accepted

Remarks: _____

QC Reviewer Signature: _____

416 – Drilled Shaft Foundations	**Yes**	**No**	**NA**
I. Materials (416.2)			
1. Did the Contractor incorporate materials into this project that meet the requirements of referenced items in Section 416.2?	☐	☐	☐
2. Does concrete for Drilled Shafts meet the requirements of Table 1 and Table 2 for concrete class and slump?	☐	☐	☐
3. If drilling slurry is used, does it meet the requirements of Table 3, as determined by Tex-130 E?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Drilled Shaft Foundations – Item 416

	Yes	No	NA
4. Do Chemical Admixtures meet the requirements of DMS-4620?	☐	☐	☐

_____

_____

II. Construction (416.3)

A. Excavation

1. When excavating, was satisfactory founding material encountered at plan elevation?	☐	☐	☐

_____

_____

If not, was the bottom of the shaft adjusted, or the foundation altered, as determined by the Engineer of Record, to satisfactorily comply with the design requirements?

_____

_____

2. Is the shaft vertical alignment measured and found to be within a tolerance of 1 inch per 10 feet of depth? **(Hold Point)**	☐	☐	☐

_____

_____

3. Is the center of shaft location measured and found to be not more than 1 inch from the horizontal position shown on the plans? **(Hold Point)**	☐	☐	☐

_____

_____

If not, was a structural review performed?

_____

_____

4. Did the Contractor provide suitable access and lighting for proper inspection of the completed excavation?	☐	☐	☐

_____

_____

Williamson County
Road Bond Program
Inspection Check Lists

Drilled Shaft Foundations – Item 416

	Yes	No	NA
5. For abutment drill shafts, is the embankment at the bridge ends completed to grade and thoroughly compacted prior to drilling?	☐	☐	☐

B. Requirements for Slurry Displacement Method

1. If the slurry method is used to construct drilled shaft, is slurry mixed at the project site or is it premixed in a reservoir adjacent to the excavation (not in the shaft excavation or other hole)?	☐	☐	☐
2. During and after drilling was a head of slurry maintained in the shaft excavation at or near ground level or higher as necessary to counteract ground water pressure?	☐	☐	☐
3. Just prior to placement of reinforcing steel, was an airlift or proper size cleanout bucket used to remove accumulated material on the bottom after the completion of drilling? **(Hold Point)**	☐	☐	☐
4. Was concrete placement started within 4 hours of shaft excavation? If not, was shaft reprocessed?	☐	☐	☐
5. Is the slurry agitated if the placement of concrete is delayed to keep it liquefied?			

Williamson County
Road Bond Program
Inspection Check Lists

Drilled Shaft Foundations – Item 416

C. Reinforcing Steel	Yes	No	NA
1. Is the cage of reinforcing steel completely assembled according to plans and placed in the drill shaft as a unit immediately prior to concrete placement? **(Hold Point)**	☐	☐	☐
2. Where spiral reinforcement is used, is it tied to longitudinal bars (not welded) at a spacing not to exceed 24 inches?	☐	☐	☐
3. In uncased shafts, are concrete spacer blocks or steel chairs placed at sufficient intervals to insure concentric spacing for the entire length of the cage?	☐	☐	☐
4. In cased shafts, are steel chair spacers or bent pieces of steel bars placed at sufficient intervals to insure concentric spacing inside the casing?	☐	☐	☐
5. Is the cage adequately supported to control vertical displacement and racking and distortion of the steel during concrete placement and/or extraction of the casing?	☐	☐	☐
6. a. Is the elevation of the steel cage checked before and after concrete placement or after casing extraction when casing is used?	☐	☐	☐
b. Did the downward movement of the steel not exceed 6 inches per 20 feet of shaft length?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Drilled Shaft Foundations – Item 416

	Yes	No	NA
c. Did the upward movement of the steel not exceed 6 inches?	☐	☐	☐
d. Were the dowel bars checked for proper lap length between the shaft and column?	☐	☐	☐

D. Concrete (Perform all work in accordance with the requirements of Item 420, "Concrete Structures".)

1. For dry shafts 24" in diameter or smaller, is concrete placed continuously through the entire length of the shaft through a suitable tube or tremie (limit freefall to 25 feet) to prevent segregation of materials?	☐	☐	☐
2. Does the elapsed time from the beginning of concrete placement into the cased portion of the shaft until the completion of extraction of the casing exceed one hour?	☐	☐	☐
3. At the time the concrete is placed, is the excavated drill shaft free from accumulated seep water?	☐	☐	☐
4. Has all loose material been removed from the bottom of the excavation prior to placing concrete?	☐	☐	☐

(Note: For dry shafts over 24" diameter concrete freefall is unlimited; use 3 foot drop tube.)

Williamson County
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Drilled Shaft Foundations – Item 416

	Yes	No	NA
E. Additional Requirements for Slurry Displacement or Underwater Concrete Placement Methods			
1. Is the concrete placed through a closed tremie or pumped to the bottom of the excavation?	☐	☐	☐
2. If a tremie is used, is it kept full of concrete and well submerged in the previously placed concrete at all times?	☐	☐	☐

How is this determined?

3. During the placement of concrete was the tremie raised, as necessary, to maintain the free flow of concrete and the stability of any casing used?

4. Was additional concrete placed to ensure the removal of any contaminated concrete at the top of the shaft?

5. For pours over water, was a collar used to capture the slurry and the top portion of concrete flushed from the shaft?

6. If the tremie seal (separating layer between the concrete and contaminated bottom hole material) is lost, was the tremie removed, the bottom resealed and the tremie re-inserted at least 5 feet below the new seal before continuing concrete placement?

Williamson County
Road Bond Program
Inspection Check Lists

Drilled Shaft Foundations – Item 416

	Yes	No	NA
F. Load Testing			
1. If required, were the poured drill shafts load tested after curing in accordance with Item 405, "Foundation Test Load"?	☐	☐	☐

_____

_____

Williamson County Road Bond Program Inspection Check Lists

Drilled Shaft Foundations – Item 416

Drilled Shaft Record
Form No. 416

DRILLED SHAFT				BELL FTG.		Date Drilled	Casing Used	Drilling Mud	Slurry Plmt.	Remarks
No.	Dia. (in)	Top of Shaft Elev.	Length (ft)	Dia. (CY)	Vol. (CY)					
Bent No.	Design Load		Tons per shaft							
Bent No.	Design Load		Tons per shaft							
Bent No.	Design Load		Tons per shaft							
Bent No.	Design Load		Tons per shaft							
Bent No.	Design Load		Tons per shaft							

Summary for Payment				Comments
Total this sheet		Total this structure		
size of shaft	Length (ft.)	size of shaft	Length (ft.)	
Total Vol of Bells		Total Vol of Bells		

Williamson County
Road Bond Program
Inspection Check Lists

Drilled Shaft Foundations – Item 416

Signature/Date:_____

Williamson County
Road Bond Program
Inspection Check Lists

Spec Item: 420 – Concrete Structures
Description: _____
Location: _____

Report No.: _____
Date: _____
Time: _____

QC Reviewer: _____

Results: ☐ Accepted ☐ Not Accepted

Remarks: _____

QC Reviewer Signature: _____

Concrete Structures	**Yes**	**No**	**NA**
I. Materials (420.2)	☐	☐	☐
1. Were concrete structures constructed from materials conforming to TxDOT's Department Material Specifications in accordance with Section 420.2?			

II. Construction (420.4)

A. Schedule Restrictions

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Structures – Item 420

	Yes	No	NA
1. Did the Contractor comply with the schedule restrictions of Section 420.4.A, prior to erecting forms, removing forms, placement of materials, equipment and bridge rail, opening to construction or full traffic, post-tensioning or backfilling, ensure the previously placed concrete attained the minimum compressive strength or curing time?	☐	☐	☐

B. Falsework and Forms

1. Are the working drawings for forms and falsework signed and sealed by a Registered Professional Engineer, licensed in the state of Texas?	☐	☐	☐
2. Were the falsework and forms placed braced and alignments checked to ensure placement in accordance with the plans signed/sealed working drawings?	☐	☐	☐

C. Reinforcement (provided under Item 440)

1. Was reinforcing steel supports welded to I-beams or girders or to reinforcing steel as shown in the plans?	☐	☐	☐
2. Is the installation of dowels and anchor bolts in accordance with Section 420.4.G.10?	☐	☐	☐

D. Placing Concrete - General

1. Is the temperature of structural concrete at the time of placement between 50°and 95° F?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Structures – Item 420

	Yes	No	NA
2. Is the temperature of each truck load of concrete for bridge slabs and top slabs of direct traffic culverts being checked and is it between 50° and 85°F?	☐	☐	☐
3. Does the transporting time from the Batching Plant to the placing of concrete in the forms conform to the specification or requirements?	☐	☐	☐
4. If a pump is used to deliver concrete from the truck to the structure, is sampling for testing done at the discharge or was correlation testing performed and documented to ensure that specifications are met at the discharge end?	☐	☐	☐
5. Are all forms, pre-stressed concrete panels, T-beams and concrete box beams wetted thoroughly and remaining puddles of excess water removed prior to concrete placement?	☐	☐	☐
6. Does the method of handling, placing and consolidation of concrete minimize segregation of the concrete and displacement of the reinforcement?	☐	☐	☐
7. Does the concrete have a free fall of five (5) feet or less except in the case of thin walls or as specified otherwise?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Structures – Item 420

	Yes	No	NA
8. Is the concrete deposited in the forms in uniform layers not more than thirty-six (36) inches in thickness unless otherwise directed by the Engineer?	☐	☐	☐
9. Is the sequence of successive layers or adjacent portions of concrete such that they can be vibrated into a homogenous mass with the previously placed concrete before it sets?	☐	☐	☐
10. Is the construction sequence arranged so that cold joints in a monolithic placement is avoided?	☐	☐	☐
11. Is the concrete vibrated immediately after placement to consolidate the concrete and have the mortar flushed to the form surfaces?	☐	☐	☐
12. Is at least one stand-by vibrator provided for emergency use in addition to those required for placement?	☐	☐	☐
13. Is the rate of placement and finish satisfactory?	☐	☐	☐
14. Unless otherwise shown on the plans, for monolithic mass placements having a least dimension greater than five (5) feet, did the contractor submit a detailed plan to minimize temperature differential and meet the requirements of the Specification?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Structures – Item 420

	Yes	No	NA
E. Construction Joints			
1. Are all construction joints in bridge slabs of the type and at the locations shown on the plans?	☐	☐	☐
2. Are there additional bridge slab construction joints placed that are not shown on the plans?	☐	☐	☐
3. Was written authorization from the Engineer given for additional joints in these members?	☐	☐	☐
F. Placing Concrete in Cold Weather			
1. Is concrete placed only when the ambient temperature in the shade is 35°F and rising or above 40°F?	☐	☐	☐
2. Is the temperature maintained after placement in accordance with Section 420.4.G.11?	☐	☐	☐
G. Placing Concrete in Hot Weather			
1. Unless otherwise directed by the Engineer, is an approved retarding agent used in all concrete pours for superstructures and top slabs of direct traffic culverts when the air temperature is above 85°F?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Structures – Item 420

	Yes	No	NA
H. Placing Concrete in Water			
1. Are all classes of concrete placed under water, except Class E and Class SS, redesigned to contain an additional sack of cement per cubic yard?	☐	☐	☐
2. Is the concrete placed with a tremie meeting the requirements of Section 420.4.G.13, and is it not permitted to fall freely through the water nor disturbed after being placed?	☐	☐	☐
I. Placing Concrete in Superstructure			
1. For simple span bridge slabs, what type of finishing machine was used?	☐	☐	☐
2. If other than a mechanical longitudinal screed or a self-propelled transverse finishing machine was used, was approval given by the Engineer for small placements or unusual conditions?	☐	☐	☐
J. Finish of Bridge Slabs			
1. Did QC Reviewer witness the dry-run with the Contractor to ensure dead load deflection, screed profile, steel elevation, tying of rebar, armor joint elevation, depth of cover, etc. was checked?	☐	☐	☐
2. Was the concrete worked with a float to ensure a smooth finish?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Structures – Item 420

	Yes	No	NA
3. Did QC Reviewer perform sufficient checks with a 16-ft. straight edge on the plastic concrete to ensure final surface is within specified tolerances?	☐	☐	☐
4. Did QC Reviewer continue checking and floating until the deck surface was true to grade, free of depressions, high spots, voids and rough spots?	☐	☐	☐
5. Was the surface finish achieved by using a carpet drag, burlap drag or broom?	☐	☐	☐
6. Was the finished concrete surface coated within 10 minutes with a single application of evaporation retardant at the rate recommended by the manufacturer?	☐	☐	☐
7. Is the final bridge deck surface given a grooved steel tine finish approximately 1/8 to 3/16 inches deep approximately 1/8 inches wide, randomly spaced approximately ¾ to 1 inch apart?	☐	☐	☐
8. Did the bridge deck finish meet the ride quality tolerance of 1/8 inch in ten (10) feet (10 feet straight edge test)?	☐	☐	☐
9. Was the bridge deck grooved by saw-cutting in accordance with Section 420.4.I?	☐	☐	☐

Williamson County Road Bond Program Inspection Check Lists

Concrete Structures – Item 420

	Yes	No	NA
K. Curing Concrete			
1. Were the curing requirements of Item 420.4.J met? (Note: See Table 1 – Please note "Exceptions to 4-Day Curing?")	☐	☐	☐
L. Removal of Forms and Falsework			
1. Did the Contractor remove the forms and falsework in accordance with Section 420.4.K?	☐	☐	☐
M. Ordinary Surface Finish			
1. Unless noted otherwise in the plans, did the exposed surfaces for the following items receive an ordinary finish in accordance with Section 420.4.M?			
a. Inside and top of inlets?	☐	☐	☐
b. Inside and top of manholes?	☐	☐	☐
c. Inside of sewer appurtenances?	☐	☐	☐
d. Inside of culvert barrels?	☐	☐	☐
e. Bottom of bridge slab between girders or beams?	☐	☐	☐
f. Vertical and bottom surfaces of interior concrete beams or girders?	☐	☐	☐

Note: Form marks and chamfer edges do not need to be smoothed for inside of culvert barrels and bottom of bridge slabs between girders or beams.

N. Surface Finishes for Concrete (Item 427)			
1. Was the surface cleaned and patched in preparation to receive the finish coating as shown in the plans: was this work performed in accordance with the requirements of Item 427?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Structures – Item 420

_____

_____

Williamson County
Road Bond Program
Inspection Check Lists

Spec Item: 421 – Hydraulic Cement Concrete
Description: _____
Location: _____
Report No.: _____
Date: _____
Time: _____

QC Reviewer: _____

Results: ☐ Accepted ☐ Not Accepted

Remarks: _____

QC Reviewer Signature: _____

Portland Cement Concrete	**Yes**	**No**	**NA**
I. Materials (421.2)			
1. Do the materials used in all mixed concrete placed on the job conform to TxDOT's Department Material Specifications and other requirements of Section 421.2?	☐	☐	☐
2. Is the concrete mix visually checked for uniformity from the beginning to the end of each load?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Hydraulic Cement Concrete – Item 421

	Yes	No	NA
II. Construction (421.4)			
A. Classification and Mix Design			
1. Are the requirements for entrained air met as outlined in Section 421.4.A.4 (Table 7)?	☐	☐	☐
2. Are the requirements of Table 8 – "Slump Requirements" being met?	☐	☐	☐
3. Is the maximum water-cement ratio exceeded?	☐	☐	☐
4. If question 3 is "yes", is the ratio regularly exceeded; was a new design performed?	☐	☐	☐
5. Is no water added to the concrete once discharge has begun to ensure that the maximum water-cement ratio is not exceeded?	☐	☐	☐
B. Job Testing and Documentation			
1. Was the concrete checked at the beginning of the load for slump or entrained air to prohibit placement of non-conforming material?	☐	☐	☐
2. Is the required job site testing (strength, clump, entrained air, concrete temperature, etc.) being performed at the required frequency using proper TxDOT testing methods?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Hydraulic Cement Concrete – Item 421

	Yes	No	NA
3. Are the concrete tickets properly completed?	☐	☐	☐
4. Is the amount of water withheld (based on the design water-cement ratio) at the plant shown on the concrete ticket?	☐	☐	☐
5. If concrete is pumped, where is sampling and testing being performed?	☐	☐	☐
6. Were comparison tests recorded between the haul unit and the point of unit discharge after pump?	☐	☐	☐

C. Truck Mounted Paving Mixers and Transit Mix Trucks

1. Is each truck delivered concrete batch mixed not less than 70 nor more than 100 revolutions of the drum at the mixing speed designated by the manufacturer to produce a uniform concrete mix?	☐	☐	☐
2. When water is added at the job site, is the batch mixed a minimum of 25 revolutions at mixing speed?	☐	☐	☐

Concrete Batch Ticket

Ticket No: _____

Date: _____

Material Information

MAT'L	Identification*	Am't Batched
AEA		oz.
RA		oz.
WRA		oz.
		oz.
CA_1		lbs.
CA_2		lbs.
FA_1		lbs.
Cement		lbs.
Fly Ash		lbs.
		lbs.
		lbs.
		lbs.

AT PLANT

Plant | Des. No. | Truck No.

CY | County | Project | CCSJ

Class | Air Temp °F | Mixer Chg'd. ☐ AM ☐ PM | MAX TIME

*%Moist | CA_1 | CA_2 | CA_3 | CA_4 | FA_1 | FA_2

Water: Added (gal). | Ice. (lbs) | Max. (gal)

Rev. Const.: Beg. | End | Mix Rev.

Remarks

Plant Inspector Signature

AT JOBSITE

Structure | Location in Str.

Water Added (gal). | Ice (lbs).

Rev. Constr. Beg. | End. | Mix Rev.

*Slump | *%Air | *Conc. Temp °F | *Unit Weight Lbs/ft^3

*Bm. Or Cyl. Nos | Target Value psi | Mixer Unloaded ☐ AM ☐ PM

Remarks

Plant Inspector Signature

Williamson County
Road Bond Program
Inspection Check Lists

Spec Item: 422 – Reinforced Concrete Slab
Description: _____
Location: _____
Report No.: _____
Date: _____
Time: _____

QC Reviewer: _____

Results: ☐ Accepted ☐ Not Accepted

Remarks: _____

QC Reviewer Signature: _____

Reinforced Concrete Slab	**Yes**	**No**	**NA**
I. Materials (422.2)			
1. Are the materials furnished by the Contractor in accordance with the referenced Items of work and meet the requirements of Section 422.2?	☐	☐	☐
II. Construction (422.3)			
A. Pre-placement			
1. Is all placing, finishing and curing equipment in place and operational?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Reinforced Concrete Slab – Item 422

	Yes	No	NA
2. Has a dry runoff the equipment been done?	☐	☐	☐
3. Has the proper clear cover for the rebar been checked?	☐	☐	☐
4. Does screed clear at the armor joints?	☐	☐	☐
5. Are drains and grates at plan location and elevation?	☐	☐	☐
6. Is sufficient plastic and curing blankets available in case of inclement weather after the pour begins?	☐	☐	☐
7. Are forms, deck panels, beams and every element that the fresh concrete will come in contact with properly wetted?	☐	☐	☐

B. During Placement

1. Has placement begun at the low end on spans with a profile grade of 1.5% or more?	☐	☐	☐
2. Are proper clear cover depths being checked at the frequency shown in the Test Guide Schedule?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Reinforced Concrete Slab – Item 422

	Yes	No	NA
3. Is concrete being placed between exterior and adjacent beams prior to placing concrete on overhangs?	☐	☐	☐
4. Is the application of evaporation retardant and curing compound being applies at the times required by specification and at the rates identified by the manufacturer?	☐	☐	☐

C. Post Placement

1. Is the final surface within specification tolerances when checked with a 16-ft straightedge?	☐	☐	☐
2. Has concrete attained a compressive strength in accordance with Section 420.4.A and Table 5 of Section 421.4 prior to removing forms or introducing loads?	☐	☐	☐
3. If deck grooves are saw cut, were they installed in accordance with Section 420.4.I?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Spec Item: 423 – Retaining Wall
Description:
Location:
Report No.:
Date:
Time:

QC Reviewer:

Results: ☐ Accepted ☐ Not Accepted

Remarks:

QC Reviewer Signature:

Retaining Wall	**Yes**	**No**	**NA**
I. Materials (432.2)			
1. Do the materials furnished by the Contractor meet the requirements of the referenced Items of work and other requirements of Section 432.2?			
2. For non-reinforced cast-in-place, was “Class A” concrete used?	☐	☐	☐
3. For reinforced cast-in-place, was “Class C” concrete used?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Retaining Wall – Item 423

	Yes	No	NA
4. Are precast panels fabricated with "Class H" concrete with compressive strength breaks of 4,000 psi or greater?	☐	☐	☐
5. If machine-made concrete block units are used, were they cast in accordance with ASTM C-90, Class 1, Type II and meet the 28-day compressive strength of 4,000 psi with maximum moisture absorption of 7%?	☐	☐	☐
6. If machine-made concrete block units are used, were they sampled and tested in accordance with ASTM C-140 and are the molded dimensions within 1/8" tolerance, except where height must be within 1/16"?	☐	☐	☐
7. For filter fabric used in the Retaining Wall System, is it UV-resistant and does the material meet the requirements of DMS-6200?	☐	☐	☐
8. Are approved joint fillers, pads, waterstops, etc. used as shown in the plans?	☐	☐	☐
9. Does the retaining wall design service life meet the requirements of Section 423.3B?	☐	☐	☐
10. Does the backfill material conform to the gradation and other requirements stated in the plans and/or Item 423.C.2: Table 2 and Item 423.3.C.3: Table 3?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Retaining Wall – Item 423

II. Construction (423.2)	Yes	No	NA
1. Is the foundation for the structure graded level and compacted with a roller approved prior to wall construction? (Hold Point)	☐	☐	☐
2. Are any foundation soils found to be unsuitable removed and replaced?	☐	☐	☐
3. Is filter fabric placed behind all wall joints, and at the intersection of retaining walls with other structures, including riprap?	☐	☐	☐
4. Does the filter fabric cover joints a minimum of 6 inches on each side and is it positively held in place?	☐	☐	☐
5. As select fill material is placed behind the wall panels, are the panel alignments maintained by acceptable bracing methods?	☐	☐	☐
6. Do vertical tolerances and horizontal alignment tolerance not exceed ¾" when measured along the wall with a 10-foot straight edge?	☐	☐	☐
7. Is the overall vertical tolerance of the wall (plumbness from top to bottom) within ½" per 10-feet of wall height?	☐	☐	☐
8. Does the backfill placement closely follow the erection of each lift of panels, and is it placed in 8" lifts and compacted to 95% of density?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Retaining Wall – Item 423

	Yes	No	NA
9. At each reinforcement level, is the backfill leveled and compacted before placing the reinforcement?	☐	☐	☐
10. Is adjacent embankment placed to approximately the same level as the backfill material? Note: Do not create a continuous, distinct, vertical joint between the select and embankment backfill.	☐	☐	☐
11. Is compaction in the 3-foot strip adjacent to the backside of the wall accomplished with hand operated or walk-behind compacter?	☐	☐	☐
12. If rock backfill is used as select material, was a filter fabric layer placed before placing the last 2 feet of backfill immediately below the pavement structure or top of wall? Note: Overlap splices by at least 18".	☐	☐	☐
13. Does the upper 2 feet of rock backfill contain no stones larger than 3" in their greatest dimension and is it composed of material with sufficient fines to fill the voids in a compacted state?	☐	☐	☐
14. Is the wall being constructed in accordance with the details shown on the plan sheets and/or construction drawings?	☐	☐	☐
15. If construction drawings are used to show the construction details, does the Reviewer have (or have access to) a copy of these drawings?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Retaining Wall – Item 423

	Yes	No	NA
16. Are proper spacers provided between panels?	☐	☐	☐
17. Is grading and drainage maintained adjacent to the wall during construction?	☐	☐	☐
18. If temporary MSE walls are used, were the walls constructed in accordance with Section 423.3.F requirements?	☐	☐	☐
19. If Concrete Block Retaining Walls are used, were the walls constructed in accordance with Section 423.3.G?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Spec Item:	425 – Precast Pre-stressed Concrete Structural Members	Report No.:	
Description:		Date:	
Location:		Time:	

QC Reviewer: _____

Results: ☐ Accepted ☐ Not Accepted

Remarks: _____

QC Reviewer Signature: _____

Precast/Pre-stressed Concrete Structural Members	**Yes**	**No**	**NA**
I. Materials (425.2)			
1. Do the materials incorporated in the Precast Pre-stressed Concrete Structural Members conform to the reference items of work, TxDOT's Department Material Specifications and other requirements of Section 425.2?	☐	☐	☐
2. Did the Contractor provide manufacturer's certifications for bedding strips and use adhesives or bonding agents as recommended by the polystyrene manufacturer?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Precast Pre-stressed Concrete Structural Members – Item 425

	Yes	No	NA
II. Construction (425.3)			
1. Are beams, bridge deck panels and bearing pads approved by TxDOT and is the TxDOT stamp on them?	☐	☐	☐
2. Do beams have any signs of damage such as cracks, spalling and/or "honeycombs"?	☐	☐	☐
3. Are dimensions correct?	☐	☐	☐
4. During erection of beams, did the Contractor securely tie or brace all beams in accordance with minimum erection and bracing standards?	☐	☐	☐
5. Are any safety hazards apparent (power lines, traffic hazards or other construction activities)?	☐	☐	☐
6. Have beams been erected to proper alignment as shown on the plans?	☐	☐	☐
7. Are beams positioned with the proper clearance from the abutment back-wall and adjacent beam?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Spec Item: 440 – Reinforcing Steel
Description: _____
Location: _____
Report No.: _____
Date: _____
Time: _____

QC Reviewer: _____

Results: ☐ Accepted ☐ Not Accepted

Remarks: _____

QC Reviewer Signature: _____

Reinforcing Steel	**Yes**	**No**	**NA**
I. Materials (440.2)			
1. Does the reinforcing steel to be welded comply with ASTM A706 or have a carbon equivalency of not more than 0.55%?	☐	☐	☐
2. Do the electrodes used for welding conform to the requirements of Item 448.2 for the type of reinforcing steel used?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Reinforcing Steel – Item 440

		Yes	No	NA
3.	Does the person performing the welding operation have welder certification paper issued by TxDOT that covers the type of work he/she is performing? (448.4)	☐	☐	☐
4.	Is an oven used to dry and store electrodes with low hydrogen coverings for the times and at the temperatures required? (448.4.C)	☐	☐	☐
5.	Is the rebar used on the job from an approved Mill as required by Section 440.2.A?	☐	☐	☐
6.	Unless otherwise shown on the plans, is the deformed rebar Grade 60 as required by Section 440.2.B?	☐	☐	☐
7.	For Epoxy Coated Rebar, is the coated reinforcing steel in accordance with Table 3 (440.2.F)?	☐	☐	☐
8.	Are mechanical couplers used when reinforcing steel is spliced?	☐	☐	☐
9.	Are all couplers furnished by the Contractor produced by a pre-qualified manufacturer? (DMS-4510)	☐	☐	☐
10.	Before being used, are the couplers sampled and tested as required in Item 440.2.G and do they meet all requirements? (DMS-4510)	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Reinforcing Steel – Item 440

	Yes	No	NA
II. Construction (440.3.C)			
1. Is steel reinforcement adequately stored above the surface of the ground upon platforms, skids or other supports and protected from damage and deterioration?	☐	☐	☐
2. In final placement, is the reinforcement free from dirt, paint, grease, oil or other foreign materials and from defects such as cracks and delaminations?	☐	☐	☐
3. Are lap-splice, wield-splice, or mechanically spliced bars placed as shown on the plans and meet the requirements of Section 440.3.D and Table 5 "Minimum Lap Requirements by Bar Size"?	☐	☐	☐
If not, was written approval given by the Engineer for additional splices?			
4. In the plane of the steel parallel to the nearest surface of concrete, do the bars vary from plan placement by not more than 1/12 of the spacing between bars?	☐	☐	☐
5. In the plane of the steel perpendicular to the nearest surface of concrete, do the bars vary from plan placement by not more than 1/4"?	☐	☐	☐
6. Is the depth of cover (concrete) to the nearest surface of steel at least 1" unless otherwise shown on the plans?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Reinforcing Steel – Item 440

		Yes	No	NA
7.	For bridge slabs, is the clear cover tolerance for the top mat of reinforcement 0" to ½"?	☐	☐	☐
	_____			
	_____			
8.	Are bars of the proper size, location and quantity as shown on the plans?	☐	☐	☐
	_____			
	_____			
9.	a. What type of bar supports are used?	☐	☐	☐
	_____			
	_____			
	b. Are the bar supports adequate in strength and number to hold the reinforcement in place, before and during concrete placement?	☐	☐	☐
	_____			
	_____			
	If not, is concrete placement halted until corrective measures are taken?			
	_____			
	_____			
	c. If individual bar supports are used, are they placed in rows at 4 ft. maximum spacing?	☐	☐	☐
	_____			
	_____			
	d. If continuous type bar supports are used, are they placed in rows at 4 ft. maximum spacing?	☐	☐	☐
	_____			
	_____			
	e. Are continuous type bar supports used when permanent metal deck forms are used?	☐	☐	☐
	_____			
	_____			

Williamson County
Road Bond Program
Inspection Check Lists

Reinforcing Steel – Item 440

	Yes	No	NA
10. Are all accessories used with epoxy coated reinforcement such as tie wires, bar chairs, supports or clips made of steel, fully coated with epoxy or plastic?	☐	☐	☐
11. Has all visible damage to the coating been repaired in accordance with Section 440.3.F.3 before the reinforcement is used?	☐	☐	☐
12. Is any cutting of coated reinforcement done only by sawing or shear cutting with permission of the Engineer?	☐	☐	☐
13. Have all cut ends been coated before the reinforcement is used?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Spec Item: 442 – Metal for Structures
Description: _____
Location: _____
Report No.: _____
Date: _____
Time: _____

QC Reviewer: _____

Results: ☐ Accepted ☐ Not Accepted

Remarks: _____

QC Reviewer Signature: _____

Metal for Structures	**Yes**	**No**	**NA**
I. Materials (442.2)			
A. Non-Bridge Structures:			
1. Was the structural steel delivered and used within the project tested in accordance with ASTM A370?	☐	☐	☐
2. Does the type and grades of steel used by the Contractor in accordance with the listing in Section 442.2.2.A or as shown on the plans?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Metal for Structures – Item 442

	Yes	No	NA
3. Have tension members and other components listed in Section 442.2.2.B been impact tested and do the test results conform with the Charpy V-notch (CVN) requirements of Table 1 within the above stated section?	☐	☐	☐

B. Other Components such as Shear Connectors, Anchors, Fasteners, Slip-resistant Deck Plates and Rail Posts:

1. Do the materials supplied to the project under this section have a certification of material properties from the manufacturer?	☐	☐	☐
2. Do the materials meet the ASTM requirements as shown in Section 442.2.3 per category description and tested in accordance with section requirements?	☐	☐	☐

C. Forgings, Castings and Extrusions (442.2.B, C, D, E, F, G):

1. Do the components under this category meet the ASTM, class, grade and/or alloy-temper as required in accordance by Section 442.2.B, C, D, E, F, G?	☐	☐	☐

II. Construction Methods (442.3)

1. Was the structural metal fabricated, welded and erected in accordance with Item 441, “Steel Structures”; Item 447, “Structural Bolting; Item 448, “Structural Field Welding”; and applicable AWS welding codes?	☐	☐	☐
2. Were the fabricated and erected structural metal members painted in accordance with Item 446, “Cleaning and Painting Steel”?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Metal for Structures – Item 442

		Yes	No	NA
3.	When specified in the plans, was the fabricated steel items galvanized in accordance with Item 445, “Galvanizing”?	☐	☐	☐
4.	Were field repairs to the painting or galvanizing of fabricated and erected steel items performed in accordance with Item 446, “Cleaning and Painting” or Item 445, “Galvanizing”?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Spec Item: 462 – Concrete Box Culverts & Storm Drains
464 – Reinforced Concrete Pipe

Report No.: _____

Description: _____

Date: _____

Location: _____

Time: _____

QC Reviewer: _____

Results: ☐ Accepted ☐ Not Accepted

Remarks: _____

QC Reviewer Signature: _____ :

Concrete Box Culverts & Storm Drains/Reinforced Concrete Pipe	**Yes**	**No**	**NA**
I. Materials (462.2 and 464.2)			
A. Reinforced Concrete Pipe, Concrete Box Culverts and Strom Drains			
1. Were the individual sections of pipe or pre-cast boxes inspected and rejected if they do not have the Division of Materials and Tests monogram on them?	☐	☐	☐
2. For cast-in-place or pre-cast box culverts and storm drains, do the materials and method of fabrication comply with the requirements of Section 462.2.A, B?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Box Culverts & Storm Drains – Item 462
Reinforced Concrete Pipe – Item 464

	Yes	No	NA
3. For cast-in-place box culverts and storm drains, during fabrication, did test specimens meet the requirements of Item 421, "Hydraulic Cement Concrete"; Item 440, "Reinforcing Steel" and conform to the requirements of Item 420, "Concrete Structures"?	☐	☐	☐
4. Were the individual sections of pipe or pre-cast boxes inspected at the project site and repaired or rejected if any of the defects are found?	☐	☐	☐
5. Were pre-cast sections inspected to ensure they meet the tolerance in accordance with Section 462.2.F?	☐	☐	☐
6. Are cracks which extend into the plane of the reinforcing steel repaired in an approved manner?	☐	☐	☐
7. Are small damaged or honeycombed areas which are purely surface in nature repaired to the satisfaction of the Engineer?	☐	☐	☐
8. Are precast sections stored on level blocking in a manner acceptable to the Engineer?	☐	☐	☐
9. Are lifting holes larger than 3" diameter?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Box Culverts & Storm Drains – Item 462
Reinforced Concrete Pipe – Item 464

	Yes	No	NA
B. Jointing Materials			
1. For all jointing materials except mortar, has the Contractor furnished the Engineer the Manufacturer's Certificate of Compliance that complies with the requirements in Section 464.2.I?	☐	☐	☐

II. Construction (462.3 and 464.3)

A. Laying Pipe and Pre-cast Boxes

1. Unless otherwise authorized by the Engineer, did the Contractor start the laying of pipe or present boxes on the bedding at the outlet end with the spigot or tongue pointing downstream and proceed toward the inlet end with the abutting sections properly matched, true to the established lines and grade?	☐	☐	☐
2. Is proper equipment provided for hoisting and lowering the sections of pipe or pre-cast boxes into the trench without disturbing the bedding and the sides of the trench?	☐	☐	☐
3. Are the ends of the pipe or precast boxes carefully cleaned, if necessary?	☐	☐	☐
4. Is the pipe or pre-cast boxes fitted and matched so that when laid in the bed, it forms a smooth uniform conduit?	☐	☐	☐
5. Are multiple installations of reinforced concrete pipe (RCP) laid with the center lines of individual barrels parallel?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Box Culverts & Storm Drains – Item 462
Reinforced Concrete Pipe – Item 464

	Yes	No	NA
6. Unless otherwise shown on the plans for multiple installations for RCP, are the clear distances between outer surfaces of adjacent pipes as shown in Item 464.3.B (Table 5)?	☐	☐	☐
7. Is the area for placement of structures excavated, shaped and the structures bedded and backfilled in accordance with Item 400, "Excavation and Backfill Structures"?	☐	☐	☐
8. Unless otherwise shown on the plans or permitted in writing by the Engineer, did heavy earth moving equipment haul over the structure before a minimum of 4-feet of compacted fill was placed over the top of the structure?	☐	☐	☐
9. Is pipe or pre-cast boxes damaged by the Contractor's equipment removed and replaced or repaired by an approved method by the Engineer?	☐	☐	☐

B. Jointing for Pipes, Concrete Box Culverts and Storm Drains

1. Does the mortar consist of one part cement, two parts sand, and sufficient water to make a plastic mix?	☐	☐	☐
2. Are the structure ends cleaned and wetted before making the joint?	☐	☐	☐
3. After the structures are tightly jointed, is the mortar packed into the joint from both inside and outside the structure, and then the inside finished smooth and flush with adjacent joints of structure?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Box Culverts & Storm Drains – Item 462
Reinforced Concrete Pipe – Item 464

	Yes	No	NA
4. Are mortar joints cured by keeping the joints wet for at least 48 hours or until the backfill operation begins after the mortar joint has cured for at least 6 hours?	☐	☐	☐
5. Is no mortar jointing done when the atmospheric temperature is at or below 40°F?	☐	☐	☐
6. Are mortared joints protected against freezing by backfilling or other approved methods for at least 24 hours?	☐	☐	☐

C. Joints using Cold-Applied, Plastic Asphalt Sewer Joint Compound

1. Are both ends of the structure clean and dry at the time the joint is made?	☐	☐	☐
2. Was a ½" thick layer of the compound troweled or otherwise placed in the groove end of the structure covering not less than two-thirds of the joint face around the entire circumference before the tongue end of the next structure is shoved home with sufficient pressure to make a tight joint?	☐	☐	☐
3. After the joint is made, is any excess mastic projecting into the structure removed?	☐	☐	☐

D. Joints Using Rubber Gasket

1. Where rubber gasket joints are required by the plans, is the joint assembly made according to the recommendations of the gasket manufacturer?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Box Culverts & Storm Drains – Item 462
Reinforced Concrete Pipe – Item 464

	Yes	No	NA
2. When using rubber gaskets, are the joints water tight?	☐	☐	☐

E. Joints Using Pre-formed Flexible Joint Sealants

1. Are the joints placed according to the procedure shown in Article 464.3.C.4 and the manufacturer's recommendations?	☐	☐	☐
2. Is the joint sealer placed in such manner that no dirt or other deleterious materials will come in contact with the joint sealing material?	☐	☐	☐
3. When the atmospheric temperature is below 60°F, are plastic joint seal gaskets either stored in an area warmed to above 70°F or artificially warmed to this temperature in a manner satisfactory to the Engineer?	☐	☐	☐

F. Connections and Stub Ends for Pipes, Concrete Box Culverts and Storm Drains

1. Is the bottom of existing structures mortared or concreted if necessary to eliminate any drainage pockets created by the connections?	☐	☐	☐
2. Is any damage to the existing structure resulting form making the connection satisfactorily repaired by the Contractor?	☐	☐	☐
3. Unless otherwise shown on the plans, are the connections between concrete pipe and corrugated metal pipe made with a suitable concrete collar having a minimum thickness of 4"?	☐	☐	☐

Williamson County
Road Bond Program
Inspection Check Lists

Concrete Box Culverts & Storm Drains – Item 462
Reinforced Concrete Pipe – Item 464

	Yes	No	NA
4. Are stub ends, for connections to future work not shown on the plans, finished by installing watertight plugs into the free end of the pipe?	☐	☐	☐
5. For precast boxes, fill lifting holes with mortar or concrete and cure or precast concrete mortar plugs may be used. Have the holes been filled accordingly prior to backfill?	☐	☐	☐

APPENDIX B

GUIDE SCHEDULE OF SAMPLING AND TESTING

GUIDE SCHEDULE OF SAMPLING & TESTING

MAY 2016

Using the Guide Schedule

Research of sampling and testing rates listed for project tests in the following Guide Schedule show that the Department's and the Contractor's risk of either rejecting "good" material or accepting "bad" material range from 20% to 40%.

To reduce this risk, we recommend that the sampling rate be increased during initial production. A four-fold increase in testing frequency will generally reduce risk to approximately 5%. The intent of increasing testing at the start of production is to insure that the Contractor's processes are in control and to establish acceptability requirements early.

There is a need to increase the frequency of testing for high-variability materials and when testing results do not meet specifications. The Engineer may require the Contractor to reimburse the Department for costs resulting from failing test results, in accordance with the specifications.

Materials incorporated in TxDOT projects are subjected to various quality assurance procedures such as testing (as outlined in this document), certification, quality monitoring, approved lists, etc. The Engineer and testing staff should familiarize themselves with materials to be used before work begins by reviewing the specifications and this document. Discuss material testing requirements with the Contractor.

Other testing required by the specifications, but not shown in the Guide Schedule, should be performed at a frequency necessary to provide adequate confidence that materials meet specifications.

NOTE: For projects subject to FHWA construction oversight activities, use the "Letter of Certification of Materials Used" to document reasons for material acceptance when a test fails. For all other projects, document the justification and explanation for acceptance of materials that fail project tests in the project file.

Assuring the quality of the product and proper incorporation of materials into the project begins with proper sampling practices. Sampling, testing, and construction inspection must be performed collaboratively to assure the specific attributes of the finished product reflect quality workmanship. Sampling guidance for hot-mixed asphalt is contained in Tex-225-F, "Random Selection of Bituminous Mixture Samples," and the respective specification for that material. All remaining materials are covered by method and materials specifications, to which the following applies.

For acceptance testing, especially that which directly determines payment for the Contractor, sampling personnel should provide randomness in sampling by avoiding patterned sampling routines. Examples of such sampling practices are as follows:

- Soils/flexible base: Vary sampling between stockpiling operations, completed stockpile, windrow, and project site. Vary the time of day sampling is performed.
- Aggregates: Sample aggregates nearest the point of incorporation into the work. Vary sampling between stockpiling operations, completed stockpile, belt sampling, and if deemed necessary, railroad cars/trucks. Vary the time of day sampling is performed.
- Concrete (structural and miscellaneous: Always sample as near as practicable to the point of placement. For strength testing, vary the time of day or the number of truck from which the concrete is sampled. Tests for slump, air, and temperature should be done often to ensure the consistent control of the concrete production (not applicable to miscellaneous concrete).

This Guide Schedule is applicable to all contracts associated with the 2014 Standard Specifications.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE I – EMBANKMENTS, SUBGRADES, BACKFILL, AND BASE COURSES

			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (D)	FREQUENCY OF SAMPLING (F)	REMARKS
EMBANKMENT (CUTS & FILLS)	Liquid Limit **(A)**	Tex-104-E	During stockpiling operations, from completed stockpile, or project site **(B)**	Materials with PI ≤ 15: 10,000 CY	For Type A embankment or when required by the plans. This test may be waived for embankment cuts as directed by the Engineer. Determine a new liquid limit and plasticity index for each different material or notable change in material. Sample in accordance with Tex-100-E.
	Plasticity Index **(A)**	Tex-106-E		Materials with PI > 15: 5,000 CY	
	Gradation	Tex-110-E		Each 10,000 CY	When shown on plans. This test may be waived for embankment cuts, as directed by the Engineer. Sample in accordance with Tex-100-E.
	Moisture/Density	Tex-114-E		As directed by the Engineer	Not required for ordinary compaction. Determine a new optimum moisture and maximum density for each different material or notable change in material. Sample in accordance with Tex-100-E.
	In-place Density **(A)**	Tex-115-E	As designated by the Engineer	Fill: each 5,000 CY min. 1 per lift.	Not required for ordinary compaction. Determine a new optimum moisture and maximum density according to Tex-114-E for each different material or notable change in material. Correct the moisture contents measured by nuclear density gauge in Tex-115-E with the moisture contents determined in accordance with Tex-103-E, as necessary for control, for each different material or notable change in material and adjust the density accordingly. Materials such as RAP, gypsum, lime, cement, and iron ore tend to bias the counts for nuclear density gauges.
				Cut: each 6,000 LF	
RETAINING WALL (NON-SELECT BACKFILL)	As shown above for Embankment (Cuts and Fills)		As shown above for Embankment (Cuts and Fills)	As shown above for Embankment (Cuts and Fills)	Sample in accordance with Tex-100-E.
RETAINING WALL (SELECT BACKFILL)	Gradation	Tex-110-E	During stockpiling operations, from completed stockpile, or project site **(B)**	Each 5,000 CY	Sample in accordance with Tex-400-A.
	Resistivity **(A)**	Tex-129-E	During stockpiling operations, from completed stockpile, or project site **(B)**	Each 5,000 CY	For material with resistivity between 1,500 and 3,000 ohm-cm, determine chloride and sulfate content, as specified in Item 423. Sample in accordance with Tex-400-A.
	pH **(A)**	Tex-128-E	During stockpiling operations, from completed stockpile, or project site **(B)**	Each 5,000 CY	Sample in accordance with Tex-400-A.

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TABLE I – EMBANKMENTS, SUBGRADES, BACKFILL, AND BASE COURSES

			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (D)	FREQUENCY OF SAMPLING (F)	REMARKS
RETAINING WALL (SELECT BACKFILL) (continued)	Soundness	Tex-411-A	During stockpiling operations, or from completed stockpile	1 per source, per project	Test when backfill sources appear to contain particles such as shale, caliche, or other soft, poor-durability particles. Sample in accordance with Tex-400-A.
	In-place Density **(A)**	Tex-115-E	As designated by the Engineer.	1 per backfill lift, per wall	Not required for rock backfill. For walls greater than 500 ft. in length, perform one test per lift for every 500 ft. in length. **(F)** Correct the moisture contents measured by nuclear density gauge in Tex-115-E with the moisture contents determined in accordance with Tex-103-E for each different material or notable change in material and adjust the density accordingly.
UNTREATED BASE COURSES	Liquid Limit **(A)**	Tex-104-E	During stockpiling operations, from completed stockpile, or windrow **(B)**	Each 5,000 CY	Sample in accordance with Tex-400-A.
	Plasticity Index **(A)**	Tex-106-E	During stockpiling operations, from completed stockpile, or windrow **(B)**	Each 5,000 CY	
	Gradation **(A)**	Tex-110-E	During stockpiling operations, from completed stockpile, or windrow **(B)**	Each 5,000 CY	Sample in accordance with Tex-400-A.
	Moisture/Density	Tex-113-E	From completed stockpile at the source **(E)**	Each 20,000 CY	Not required for ordinary compaction. Sample in accordance with Tex-400-A.
	Wet Ball Mill **(A)**	Tex-116-E	From completed stockpile at the source **(E)**	Each 20,000 CY	As required by the plans. Sample in accordance with Tex-400-A.
	Strength **(A)**	Tex-117-E	From completed stockpile at the source **(E)**	Each 20,000 CY	As required by the plans. When base material is from a source where the District has a record of satisfactory triaxial results, the frequency of testing may be reduced to one per 30,000 CY. If any one test falls below the minimum value required, the frequency of testing will return to the original frequency of 20,000 CY. Sample in accordance with Tex-400-A.

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TABLE I – EMBANKMENTS, SUBGRADES, BACKFILL, AND BASE COURSES

				PROJECT TESTS		
MATERIAL OR PRODUCT		TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (D)	FREQUENCY OF SAMPLING (F)	REMARKS
UNTREATED BASE COURSES		In-place Density **(A)**	Tex-115-E	As designated by the Engineer	Each 3,000 CY, min. 1 per lift	Correct the moisture contents measured by nuclear density gauge in Tex-115-E with the moisture contents determined in accordance with Tex-103-E, as necessary for control, for each different material or notable change in material and adjust the density accordingly. Materials such as RAP, gypsum, lime, cement, and iron ore tend to bias the counts for nuclear density gauges.
		Thickness **(A)**	Tex-140-E	As designated by the Engineer	Each 3,000 CY	Not required where survey grade control documents compliance.
TREATED SUBGRADE AND BASE COURSES	SUBGRADE BEFORE TREATMENT	Organic Content	Tex-148-E	As designated by the Engineer	1 per 500 linear feet or 5,000 CY	Required for existing subgrade material and material imported from a borrow source. Soil survey and geologic maps may be used to determine sampling locations. Sample in accordance with Tex-100-E.
		Sulfate Content	Tex-145-E	As designated by the Engineer	1 per 500 linear feet or 5,000 CY	Required for existing subgrade material and material imported from a borrow source. Soil survey and geologic maps may be used to determine sampling locations. Sample in accordance with Tex-100-E.
	NEW BASE MATERIAL	Liquid Limit **(A)**	Tex-104-E	During stockpiling operations, from completed stockpile, or windrow **(B)**	Each 5,000 CY	When central mix site or plant is used, windrow sampling may be waived. Sample in accordance with Tex-400-A.
		Plasticity Index **(A)**	Tex-106-E	During stockpiling operations, from completed stockpile, or windrow **(B)**	Each 5,000 CY	
		Gradation **(A)**	Tex-110-E	During stockpiling operations, from completed stockpile, or windrow **(B)**	Each 5,000 CY	Sample in accordance with Tex-400-A.
		Wet Ball Mill **(A)**	Tex-116-E	From completed stockpile at the source **(E)**	Each 20,000 CY	As required by the plans. Sample in accordance with Tex-400-A.

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TABLE I – EMBANKMENTS, SUBGRADES, BACKFILL, AND BASE COURSES

MATERIAL OR PRODUCT		TEST FOR	TEST NUMBER	PROJECT TESTS		REMARKS
				LOCATION OR TIME OF SAMPLING (D)	FREQUENCY OF SAMPLING (F)	
TREATED SUBGRADE AND BASE COURSES	NEW BASE MATERIAL	Strength **(A)**	Tex-117-E	From completed stockpile at the source **(E)**	Each 20,000 CY	As required by the plans. When base material is from a source where the District has a record of satisfactory triaxial results, the frequency of testing may be reduced to one per 30,000 CY. If any one test falls below the minimum value required, the frequency of testing will return to the original frequency of 20,000 CY.
	LIME	Compliance with DMS-6350	Tex-600-J	During delivery to project	Commercial Lime Slurry: each 200 tons of lime Carbide Lime Slurry: each 100 tons of lime	Sample in accordance with Tex-400-A.Verify the source is listed on the current Material Producer List for Lime. Only materials appearing on the Material Producer List will be accepted. Sample frequency for Carbide Lime Slurry may be increased as directed by the Engineer. For Hydrated Lime and Quick Lime project testing is not required but it is encouraged to sample and test the material at a rate of 1 per project as a best practice.
	CEMENT	Compliance with DMS-4600		Railroad car, truck, or cement bins		Verify the source is listed on the current Material Producer List for Cement. If not, sample and test in accordance with DMS-4600. **(C)**
	FLY ASH MATERIAL	Compliance with DMS-4615		Project samples at location designated by the Engineer		Verify the source is listed on the current Material Producer List for Fly Ash. Only materials from CST/M&P approved sources appearing on the Material Producer List for Fly Ash will be accepted. Project testing is not required but it is encouraged to sample and test the material at a rate of 1 per project as a best practice. **(C)**
	COMPLETE MIXTURE	Pulverization Gradation	Tex-101-E Part III	Roadway, after pulverization and mixing	As necessary for control	At the beginning of the project, one test must be made for each 4,500 CY or 6,000 tons until the Engineer is satisfied that acceptable pulverization results are being obtained. Sample in accordance with Tex-100-E.
		Soil-Cement Testing Soil-Lime Testing	Tex-120-E, Part II, or Tex-121-E, Part II	From roadway windrow after treatment **(E)**	Each 20,000 CY	Not required for ordinary compaction. Determine a new moisture/density curve for each different or notable change in material. Perform Tex-120-E, Part II, for Cement Treated Material, and Tex-121-E, Part II, for Lime, Lime-Fly Ash, or Fly Ash Treated Material. If Tex-120-E, Part I, Tex-121-E, Part I, or Tex-127-E is performed prior to the project, this test may be waived. Sample in accordance with Tex-100-E.

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TABLE I – EMBANKMENTS, SUBGRADES, BACKFILL, AND BASE COURSES

MATERIAL OR PRODUCT		TEST FOR	TEST NUMBER	PROJECT TESTS: LOCATION OR TIME OF SAMPLING (D)	PROJECT TESTS: FREQUENCY OF SAMPLING (F)	REMARKS
TREATED SUBGRADE AND BASE COURSES	COMPLETE MIXTURE	Soil-Cement Testing Soil-Lime Testing	Tex-120-E, Part I, Tex-121-E, Part I, or Tex-127-E	From roadway windrow after treatment	As necessary for control	Perform Tex-120-E, Part I, on cement treated material, and Tex-121-E, Part I, for lime-fly ash or fly ash treated material. Verifies the field strength by comparing results from the mix design. Performed at the discretion of Engineer. Sample in accordance with Tex-100-E.
		In-place Density **(A)**	Tex-115-E	As designated by the Engineer	Each 3,000 CY, min 1 per lift	Determine the appropriate moisture/density curve for each different material or notable change in material. Correct the moisture contents measured by nuclear density gauge in Tex-115-E with the moisture contents determined in accordance with Tex-103-E, as necessary for control, for each different material or notable change in material and adjust the density accordingly. Stabilizers and materials such as RAP, gypsum, and iron ore tend to bias the counts for nuclear density gauges.
		Thickness **(A)**	Tex-140-E	As designated by the Engineer	Each 3,000 CY	Not required where survey grade control documents are used for compliance
RECLAIMED ASPHALT PAVEMENT (RAP), CRUSHED CONCRETE, and RECYCLED MATERIALS		Sulfate Content	Tex-145-E	During stockpiling operations, from completed stockpile, or windrow	Each 5,000 CY	Required only for contractor furnished recycled material, including crushed concrete. Not required for RAP. Sample in accordance with Tex-400-A.
		Deleterious Material	Tex-413-A		Each 5,000 CY	Required only for contractor furnished recycled material, including crushed concrete. Sample in accordance with Tex-400-A.
		Decantation	Tex-406-A	During stockpiling operations, from completed stockpile, or windrow	Each 5,000 CY	Required only for contractor furnished RAP. Sample in accordance with Tex-400-A.

TABLE I – FOOTNOTES

A	When this project acceptance test fails but the product is accepted, document the reasons for acceptance on the Letter of Certification of Materials Used or in the SiteManager Remarks field.
B	Engineer will select any of these locations or any combinations thereof with the provision that the initial sample will be obtained from the completed stockpile at the source and at least one out of ten consecutive samples will be taken at the project site (from the windrow for treated and untreated bases and embankments when possible).
C	Attach the corresponding QM test report for SiteManager projects to satisfy project sampling and testing requirements.

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D	For acceptance testing, especially that which directly determines payment for the Contractor, sampling personnel should provide randomness in sampling by avoiding patterned sampling routines. Examples of such sampling practices are as follows: • Soils/Flexible Base: For gradation, liquid limit, and plastic limit, vary sampling between stockpiling operations, completed stockpile, windrow, and project site. Vary the time of day sampling is performed. • Aggregates: Sample aggregates nearest the point of incorporation into the work. Vary sampling between stockpiling operations, completed stockpile, belt sampling, and if deemed necessary, railroad cars/trucks. Vary the time of day sampling is performed.
E	The Engineer will sample from the completed stockpile at the source and test prior to placement.
F	Each test performed that is based on a quantity of material is considered “or fraction thereof” for calculating number of tests.

This is a guide for minimum sampling and testing.
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TABLE IA – ASPHALT STABILIZED BASE (Plant Mix)

			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (C)	FREQUENCY OF SAMPLING (D)	REMARKS
AGGREGATE	Gradation **(A)**	Tex-200-F, Part I	During stockpiling operations, from completed stockpile, or prior to mixing	Each 5,000 CY	Sample in accordance with Tex-400-A.
	Liquid Limit **(A)**	Tex-104-E	During stockpiling operations, from completed stockpile, or prior to mixing	Each 5,000 CY	Sample in accordance with Tex-400-A.
	Plasticity Index **(A)**	Tex-106-E	During stockpiling operations, from completed stockpile, or prior to mixing	Each 5,000 CY	
	Wet Ball Mill or L. A. Abrasion **(A)**	Tex-116-E or Tex-410-A	During stockpiling operations, from completed stockpile, or prior to mixing	Each 20,000 CY	When L. A. Abrasion is specified, tests are not required when the published value of the source, as listed on the current Material Producer List for BRSQC, meets the project specifications. Sample in accordance with Tex-400-A. **(B)**
	Coarse Aggregate Angularity **(A)**	Tex-460-A, Part I	During stockpiling operations, from completed stockpile, or prior to mixing	1 per project, per source	Not required for crushed stone sources. Sample in accordance with Tex-400-A.
	Sand Equivalent	Tex-203-F	Hot aggregate bins, feeder belt, or stockpile	1 per project, per source	When designated by the Engineer, test may be run on combined aggregates when multiple sources are used. Sample in accordance with Tex-400-A.
LIME	Compliance with DMS-6350		During delivery to the project	Hydrated Lime: 1 per project Commercial Lime Slurry: each 200 tons of lime **(D)** Carbide Lime Slurry: each 100 tons of lime **(D)** Quick Lime: 1 per project	On projects requiring less than 50 tons, material from CST/M&P approved sources may be accepted on the basis of Producer's Certification without sampling.
RECLAIMED ASPHALT PAVEMENT (RAP), and RECYCLED AGGREGATE	Decantation	Tex-217-F, Part II	During stockpiling operations, from completed stockpile, or prior to mixing	Each 10,000 CY	Sample in accordance with Tex-400-A.

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TABLE IA – ASPHALT STABILIZED BASE (Plant Mix)

			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (C)	FREQUENCY OF SAMPLING (D)	REMARKS
RECYCLED ASPHALT SHINGLES (RAS)	Decantation	Tex-217-F, Part III	During stockpiling operations, from completed stockpile, or prior to mixing	Each 10,000 CY	Sample in accordance with Tex-400-A.
ASPHALT BINDER	Compliance with Item 300 – Binder and Tack Coat		Sampled, tested and preapproved by CST/M&P. Take project samples when designated by the Engineer.	1 each for binder and tack coat per project, per grade, per source	Test at least one sample taken from the project. Sample tack coat at the distributor on the roadway in accordance with Tex-500-C, Part III. Sample binder at hot mix plant in accordance with Tex-500-C, Part II. Binder should arrive on the project pre-approved. If not pre-approved, sample binder before use.
COMPLETE MIXTURE	Laboratory Density **(A)**	Tex-126-E	Plant Mix **(C)**	20,000 CY (25,000 tons)	Sample in accordance with Tex-222-F.
	Percent Asphalt **(A)**	Tex-236-F	Plant Mix **(C)**	Each 1,500 CY (2,000 tons) or days production	Determine asphalt content correlation factors for ignition oven at a minimum of one per project. Sample in accordance with Tex-222-F.
	Indirect Tensile Strength – Dry	Tex-226-F	Plant Mix	1 per project, per design	Sample in accordance with Tex-222-F.
	Moisture Susceptibility	Tex-530-C	As designated by the Engineer	1 per project, per design	This test may be waived, when shown on the plans. Sample in accordance with Tex-222-F.
ROADWAY	In-Place Air Voids **(A)**	Tex-207-F	Roadway cores, as designated by the Engineer **(C, D)**	Each 2,500 CY (3,000 tons) or days production	Not required for ordinary compaction or when air void requirements are waived. Sample in accordance with Tex-222-F.

TABLE IA – FOOTNOTES

A	When this project acceptance test fails but the product is accepted, document the reasons for acceptance on the Letter of Certification of Materials Used or in the SiteManager Remarks field.
B	Engineer will select any of these locations or any combinations thereof with the provision that at least one out of ten consecutive samples will be taken at the project site (from the windrow for treated and untreated bases and embankments when possible).
C	For acceptance testing, especially that which directly determines payment for the Contractor, sampling personnel should provide randomness in sampling by avoiding patterned sampling routines. Examples of such sampling practices are as follows: • Soils/flexible base: Vary sampling between stockpiling operations, completed stockpile, windrow, and project site. Vary the time of day sampling is performed. • Aggregates: Sample aggregates nearest the point of incorporation into the work. Vary sampling between stockpiling operations, completed stockpile, belt sampling, and if deemed necessary, railroad cars/trucks. Vary the time of day sampling is performed.
D	Each test performed that is based on a quantity of material is considered “or fraction thereof” for calculating number of tests.

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TABLE II – SEAL COAT

			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (C)	FREQUENCY OF SAMPLING (D)	REMARKS
AGGREGATE	Gradation **(A)**	Tex-200-F, Part I	Stockpile (At source or at point of delivery)	One each 1,000 CY	Rate may be reduced to one each 2,000 CY if the Engineer approves a contractor quality control plan. Sample in accordance with Tex-221-F.
	L. A. Abrasion **(A)**	Tex-410-A	Stockpile	1 per 20,000 CY	Verify the published value of the source, as listed on the current Material Producer List for BRSQC, meets the project specifications. If not, sample and test at 1 per 20,000 CY prior to use. Sample in accordance with Tex-221-F. **(B)**
	Magnesium Soundness **(A)**	Tex-411-A	Stockpile	1 per 20,000 CY	Verify the published value of the source, as listed on the current Material Producer List for BRSQC, meets the project specifications. If not, sample and test at 1 per 20,000 CY prior to use. Sample in accordance with Tex-221-F. **(B)**
	Surface Aggregate Classification **(A)**	Tex-612-J, Tex-411-A	Stockpile	1 per 20,000 CY	Verify the published value of the source, as listed on the current Material Producer List for BRSQC, meets the project specifications. If not, sample and test at 1 per 20,000 CY prior to use. Sample in accordance with Tex-221-F. **(B)**
	Pressure Slake **(A)**	Tex-431-A	Stockpile	1 per 20,000 CY	Same as above. Required only for lightweight aggregate. Sample in accordance with Tex-221-F.
	Freeze Thaw **(A)**	Tex-432-A	Stockpile	1 per 20,000 CY	Same as above. Required only for lightweight aggregate. Sample in accordance with Tex-221-F.
	Unit Weight	Tex-404-A	Stockpile	1 per 20,000 CY	Same as above. Required only for lightweight aggregate. Sample in accordance with Tex-221-F.
	24 hr Water Absorption **(A)**	Tex-433-A	Stockpile	1 per 20,000 CY	Same as above. Required only for lightweight aggregate. Sample in accordance with Tex-221-F.
	Coarse Aggregate Angularity	Tex-460-A	Stockpile	1 per 20,000 CY	Only required for crushed gravel. Sample in accordance with Tex-221-F.
	Deleterious Material **(A)**	Tex-217-F, Part I	Stockpile	1 per 10,000 CY	Not required for lightweight aggregate. Sample in accordance with Tex-221-F.
	Decantation **(A)**	Tex-406-A	Stockpile	1 per 10,000 CY	Sample in accordance with Tex-221-F.
	Flakiness Index	Tex-224-F	Stockpile	Frequency as directed by the Engineer	Sample in accordance with Tex-221-F.

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TABLE IA – ASPHALT STABILIZED BASE (Plant Mix)

			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (C)	FREQUENCY OF SAMPLING (D)	REMARKS
	Micro Deval	Tex-461-A	Stockpile	1 per project or as necessary for control	Compare result to published value listed on the current Material Producer List for BRSQC. Submit sample to CST/M&P for Soundness and L.A. Abrasion testing when results differ by more than 3% points, unless otherwise directed by the Engineer. Sample in accordance with Tex-221-F.
	White Rock Count	Tex-220-F	Stockpile		Required only for Limestone Rock Asphalt. Not required when CST/M&P provides inspection at the plant. Sample in accordance with Tex-221-F.
	Naturally Impregnated Bitumen Content	Tex-236-F	Stockpile		Required only for Limestone Rock Asphalt. Not required when CST/M&P provides inspection at the plant. Sample in accordance with Tex-221-F.
PRECOATED AGGREGATE	Asphalt Content	Tex-236-F	Stockpile	Frequency as directed by the Engineer when a target value is specified	Sample in accordance with Tex-221-F.
ASPHALT	Compliance with Item 300		Sampled, tested, and preapproved by CST/M&P. Take project samples when designated by the Engineer from the distributor or transport.	1 per project, per grade, per source	Sample in accordance with Tex-500-C. Binder should arrive on the project pre-approved. If not pre-approved, sample binder before use.

TABLE II – FOOTNOTES

A	When this project acceptance test fails but the product is accepted, document the reasons for acceptance on the Letter of Certification of Materials Used or in the SiteManager Remarks field.
B	Attach the corresponding QM test report for SiteManager projects to satisfy project sampling and testing requirements.
C	For acceptance testing, especially that which directly determines payment for the Contractor, sampling personnel should provide randomness in sampling by avoiding patterned sampling routines. Examples of such sampling practices are as follows: • Aggregates: Sample aggregates nearest the point of incorporation into the work. Vary sampling between stockpiling operations, completed stockpile, belt sampling, and if deemed necessary, railroad cars/trucks. Vary the time of day sampling is performed.
D	Each test performed that is based on a quantity of material is considered “or fraction thereof” for calculating number of tests.

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TABLE III – HYDRAULIC CEMENT CONCRETE – STRUCTURAL (Classes: C, F, H, S, CO, K, LMC, or SS)

				PROJECT TESTS		
MATERIAL OR PRODUCT		TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (D)	FREQUENCY OF SAMPLING (E)	REMARKS
MINERAL AGGREGATE	COARSE AGGREGATE	Decantation **(B)**	Tex-406-A	From stockpile at concrete plant	Each 20,000 CY of concrete (each source)	Sample in accordance with Tex-400-A.
		Sieve Analysis **(A) (B)**	Tex-401-A		Each 1,000 CY of concrete (each source)	Sample in accordance with Tex-400-A. Test combined aggregate when used.
		Deleterious Materials **(B)**	Tex-413-A		1 per project or as necessary for control	Sample in accordance with Tex-400-A.
		Los Angeles Abrasion **(A) (B)**	Tex-410-A		Two, each source	Verify the value of the source, as listed on the current Material Producer list for CRSQC, meets the project specifications. If not, sample and submit to CST/M&P for testing prior to use in accordance with Tex-499-A. Sample in accordance with Tex-400-A. **(C)**
		5-cycle Magnesium Sulfate Soundness **(A) (B)**	Tex-411-A		Two, each source	Verify the value of the source, as listed on the current CRSQC, meets the project specifications. **(C)**
	FINE AGGREGATE	Sand Equivalent **(B)**	Tex-203-F	From stockpile at concrete plant	1 per project or as necessary for control	Sample in accordance with Tex-400-A. Test combined aggregate when used.
		Organic Impurities **(B)**	Tex-408-A		1 per project, per source	Sample in accordance with Tex-400-A.
		Sieve Analysis **(A) (B)**	Tex-401-A		Each 1,000 CY of concrete (each source)	Sample in accordance with Tex-400-A.
		Fineness Modulus **(B)**	Tex-402-A		1 per project or as necessary for control	Sample in accordance with Tex-400-A. Test combined aggregate when used. Test to confirm material variability when strength values are in question.
		Deleterious Material **(B)**	Tex-413-A		1 per project or as necessary for control	Sample in accordance with Tex-400-A. Test to confirm material variability when strength values are in question.
		Acid Insoluble Residue **(A) (B)**	Tex-612-J		Two, each source	Only for concrete subject to direct traffic. Verify the value of the source, as listed on the current CRSQC, meets the project specifications. If not, sample and submit to CST/M&P for testing prior to use in accordance with Tex-499-A. Sample in accordance with Tex-400-A. **(C)**
SILICA FUME		Compliance with DMS-4630 **(A)**		Railroad car, truck, bags or silos	1 per project, per class of concrete (For each type and brand)	Sample in accordance with Tex-320-D.

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TABLE III – HYDRAULIC CEMENT CONCRETE – STRUCTURAL (Classes: C, F, H, S, CO, K, LMC, or SS)					
			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (D)	FREQUENCY OF SAMPLING (E)	REMARKS
METAKAOLIN	Compliance with DMS-4635 **(A)**		Railroad car, truck or silos	1 per project, per class of concrete (For each type and brand)	
MIX DESIGN	Compliance with Standard Specification Item 421.4.A		At source (if not approved)	Min. 1 design per class, per source	Verify if cement, fly ash, slag cement, and chemical admixture sources are listed on the Material Producer Lists. If not, sample and submit to CST/M&P for testing. Water testing is contracted by the concrete supplier (commercial lab report to be reviewed by TxDOT). Sample in accordance with Tex-300-D for cement and in accordance with Tex-733-I for fly ash.
JOINT MATERIAL	Compliance with DMS-6300				Sample in accordance with Tex-500-C. Verify the source is listed on the Material Producer List for Joint Sealers. If not, sample and test prior to use in accordance with DMS-6310. **(C)**
CURING COMPOUND	Compliance with DMS-4650		Sampled at jobsite; tested by CST/M&P. See remarks.	When requested by CST	Only products listed on the Material Producer List for Concrete Curing Compounds will be allowed. When sample is requested by CST, sample in accordance with Tex-718-I. Ensure container has been agitated and mixed prior to sampling. **(C)**
EVAPORATION RETARDANTS	Compliance with DMS-4650				Only products listed on the Material Producer list for Evaporation Retardants will be allowed. **(C)**
REINFORCING STEEL	Compliance with the Std. Specifications & Spec. Provisions	As Specified			Only materials from CST/M&P approved sources listed on the Material Producer Lists for Reinforcing Steel Mills and Seven Wire Steel Strand will be allowed. **(C)**
MECHANICAL COUPLERS	Compliance with DMS-4510	Tex-743-I	Sampled at jobsite; Tested by CST/M&P	3 couplers per lot (500 couplers) for each type, model, bar size and grade	Only materials from CST/M&P approved sources listed on the Material Producer List for Mechanical Couplers will be allowed. **(C)**
LATEX	Compliance with DMS-4640 for concrete chemical admixtures		Sampled at jobsite.	Min. of 1 test per project	Sample in accordance with Tex-321-E.
EPOXY	Compliance with DMS-6100, unless otherwise specified		Sampled at jobsite if not pre-approved by CST/M&P.	1 per batch or shipment	Verify the source is listed on the Material Producer List for Epoxies and Adhesives. If not, sample and test prior to use in accordance with DMS-6100. Sample in accordance with Tex-734-I. **(C)**

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE III – HYDRAULIC CEMENT CONCRETE – STRUCTURAL (Classes: C, F, H, S, CO, K, LMC, or SS)					
			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (D)	FREQUENCY OF SAMPLING (E)	REMARKS
CONCRETE	Compressive Strength **(A)**	Tex-418-A	At point of concrete placement	4 cylinders for each 60 CY per class, per day (For bridge railing and traffic railing, testing may be reduced to 4 cylinders per 180 CY per class regardless of days)	Sampling must be in accordance with Tex-407-A. Test two cylinders at 7 days, and if the average value is below the design strength as defined in Item 421 Table 8, test the remaining 2 cylinders at 28 days. If the average value of the 2 cylinders tested at 7 days meets the minimum design strength listed in Item 421 Table 8, the 2 remaining cylinders are not required to be tested.
CONCRETE	Slump	Tex-415-A		1 test per 4 strength specimens	Sample in accordance with Tex-407-A. Perform slump and temperature tests on the same load from which strength test specimens are made. Perform entrained air test only when entrained air concrete is specified in the plans. Check temperature of every load for bridge slabs and mass concrete placements. Contractor's required testing will be in accordance with specification requirements for the appropriate specification Item #.
	Entrained Air **(A)**	Tex-416-A or Tex-414-A			
	Temperature of Concrete **(A)**	Tex-422-A			
	Slab Thickness and Depth of Reinforcement	Tex-423-A, Part II	During dry run and during concrete placement (Bridge decks and direct traffic culverts)	1 per span	Min 6–Max 18 locations per span

TABLE III – FOOTNOTES	
A	When this project acceptance test fails but the product is accepted, document the reasons for acceptance on the Letter of Certification of Materials Used or in the SiteManager Remarks field.
B	These Project Tests may be used for one or more projects being furnished concrete from the same plant during the same period.
C	Attach the corresponding QM test report for SiteManager projects to satisfy project sampling and testing requirements.
D	For acceptance testing, especially that which directly determines payment for the Contractor, sampling personnel should provide randomness in sampling by avoiding patterned sampling routines. Examples of such sampling practices are as follows: • Aggregates: Sample aggregates nearest the point of incorporation into the work. Vary sampling between stockpiling operations, completed stockpile, and if deemed necessary, railroad cars/trucks. Vary the time of day sampling is performed. • Concrete (structural): Always sample as near as practicable to the point of placement. For strength testing, vary the time of day or the number of truck from which the concrete is sampled. Test often for slump, air, and temperature to ensure the consistent control of the concrete production.
E	Each test performed that is based on a quantity of material is considered "or fraction thereof" for calculating number of tests.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE IV – HYDRAULIC CEMENT CONCRETE – NON-STRUCTURAL CONCRETE (Classes: A, B, or E)					
			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING (B)	FREQUENCY OF SAMPLING (C)	REMARKS
CONCRETE	Compressive Strength (A)	Tex-418-A	At point of concrete placement	2 cylinders per 180 CY, per class	Sampling must be in accordance with Tex-407-A. Strength will be determined by 7-day specimens.
MIX DESIGN	Compliance with the Standard Specification		At source if not approved.	Min. 1 design per class, per source	Verify if cement, fly ash, slag cement, and chemical admixture sources are listed on the Material Producer Lists. If not, sample and submit to CST/M&P for testing. Sample in accordance with Tex-300-D for cement and in accordance with Tex-733-I for fly ash. Water testing is contracted by the concrete supplier (commercial lab report to be reviewed by TxDOT).
SILICA FUME	Compliance with DMS-4630		Railroad car, truck, bags or silos	1 test per project, per class (for each type and brand)	Sample in accordance with Tex-320-D.
METAKAOLIN	Compliance with DMS-4635		Railroad car, truck or silos	1 test per project, per class (for each type and brand)	

TABLE IV – FOOTNOTES	
A	When this project acceptance test fails but the product is accepted, document the reasons for acceptance on the Letter of Certification of Materials Used or in the SiteManager Remarks field.
B	For acceptance testing, especially that which directly determines payment for the Contractor, sampling personnel should provide randomness in sampling by avoiding patterned sampling routines. Examples of such sampling practices are as follows: • Concrete (miscellaneous): Always sample as near as practicable to the point of placement. For strength testing, vary the time of day or the number of truck from which the concrete is sampled.
C	Each test performed that is based on a quantity of material is considered “or fraction thereof” for calculating number of tests.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE V – HYDRAULIC CEMENT CONCRETE PAVEMENT (Classes: P or HES)

MATERIAL OR PRODUCT		TEST FOR	TEST NUMBER	PROJECT TESTS: LOCATION OR TIME OF SAMPLING	PROJECT TESTS: FREQUENCY OF SAMPLING (D)	REMARKS
MINERAL AGGREGATE	COARSE AGGREGATE	Decantation	Tex-406-A	From stockpile at concrete plant	Each 20,000 CY of concrete (each source)	Sample in accordance with Tex-400-A.
		Sieve Analysis **(A)**	Tex-401-A		As necessary for control	Sample in accordance with Tex-400-A. Test combined aggregate when used.
		Deleterious Materials	Tex-413-A		Each 20,000 CY of concrete (each source)	Sample in accordance with Tex-400-A.
		L.A. Abrasion **(A)**	Tex-410-A		Two, each source	Verify the value of the source, as listed on the current CRSQC, meets the project specifications. If not, sample and submit to CST/M&P for testing prior to use in accordance with Tex-499-A. Sample in accordance with Tex-400-A. **(C)**
		5-Cycle Magnesium Sulfate Soundness **(A)**	Tex-411-A			
	FINE AGGREGATE	Sand Equivalent	Tex-203-F	From stockpile at concrete plant	Each 3,000 CY of concrete (Each source or combination of sources)	Sample in accordance with Tex-400-A. Test combined aggregate when used. No less than one per week's production.
		Organic Impurities	Tex-408-A		1 per project, per source	Sample in accordance with Tex-400-A.
		Sieve Analysis **(A)**	Tex-401-A		As necessary for control	Sample in accordance with Tex-400-A. Test combined aggregate when used.
		Fineness Modulus **(B)**	Tex-402-A			
		Deleterious Material **(B)**	Tex-413-A		Each 20,000 CY of concrete (each source)	Sample in accordance with Tex-400-A.
		Acid Insoluble **(A)**	Tex-612-J		1 per project, per source	Verify the value of the source, as listed on the current CRSQC, meets the project specifications. If not, sample and submit to CST/M&P for testing prior to use in accordance with Tex-499-A. Sample in accordance with Tex-400-A. **(C)**
MIX DESIGN		Compliance with the Standard Specifications Item 421.4.A		At source, if not approved	Min. 1 design, per class, per source	Verify if cement, fly ash, ground granulated blast furnace slag, and admixture sources are listed on the Material Producer List. If not, sample and submit to CST/M&P for testing. Sample in accordance with Tex-300-D for cement and in accordance with Tex-733-I for fly ash. Water testing is contracted by the concrete supplier (commercial lab report to be reviewed by TxDOT).

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE V – HYDRAULIC CEMENT CONCRETE PAVEMENT (Classes: P or HES)					
			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING	FREQUENCY OF SAMPLING (D)	REMARKS
SILICA FUME	Compliance with DMS-4630		Railroad car, truck, bags or silos	1 per project per class of concrete (For each type and brand)	Sample in accordance with Tex-320-D.
METAKAOLIN	Compliance with DMS-4635		Railroad car, truck or silos	1 per project per class of concrete (For each type and brand)	Sample in accordance with Tex-320-D.
JOINT MATERIAL	Compliance with DMS-6310		Sampled at jobsite if not sampled at source by CST/M&P; tested by CST/M&P. See remarks.	1 per batch or shipment	Sample in accordance with Tex-500-C. Sampling may be waived when the source is listed on the Material Producer List for Joint Sealers. **(C)**
CURING COMPOUND	Compliance with DMS-4650		Sampled at jobsite; tested by CST/M&P. See remarks.	When requested by CST	Only products listed on the Material Producer List for Concrete Curing Compounds will be allowed. When sample is requested by CST, sample in accordance with Tex-718-I. Ensure container has been agitated and mixed prior to sampling. **(C)**
EVAPORATION RETARDANTS	Compliance with DMS-4650				Only products listed on the Material Producer List for Evaporation Retardants will be allowed. **(C)**
REINFORCING STEEL	Compliance with the Std. Specifications & Spec. Provisions	As Specified			Only materials from CST/M&P approved sources listed on the Material Producer List for Reinforcing Steel Mills and Seven Wire Steel Strand will be accepted. **(C)**
MULTIPLE PIECE TIE BARS	Compliance with DMS-4515	Tex-712-I	Sampled at jobsite if not sampled at source by CST/M&P; tested by CST/M&P. See remarks.	Refer to Tex-711-I for sampling rates	Only materials from CST/M&P approved sources listed on the Material Producer List for Multiple Piece Tie-bars for Concrete Pavements will be allowed. Sample in accordance with Tex-734-I.
EPOXY	Compliance with DMS-6100		Sampled at jobsite if not pre-approved by CST/M&P. See remarks.	1 batch per shipment	Verify the source is listed on the Material Producer List for Epoxies and Adhesives. If not, sample and test prior to use in accordance with DMS-6100. Sample in accordance with Tex-734-I. **(C)**

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE V – HYDRAULIC CEMENT CONCRETE PAVEMENT (Classes: P or HES)					
			PROJECT TESTS		
MATERIAL OR PRODUCT	TEST FOR	TEST NUMBER	LOCATION OR TIME OF SAMPLING	FREQUENCY OF SAMPLING (D)	REMARKS
CONCRETE	Strength **(A) (B)**	Tex-448-A or Tex-418-A	At point of concrete placement	2 cylinders for every 10 contractor job control tests	Sample in accordance with Tex-407-A. When the contract requires the project testing to be by the Engineer, the frequency and job control testing will be in accordance with the item of work. Split sample verification testing used when contractor performs job control testing. When job control testing by the contractor is waived by the plans, the frequency of sampling will be one test (2 specimens) for each 3,000 SY of concrete or fraction thereof or per day and split sample verification testing will be waived. Contractor's required testing will be in accordance with specification requirements for the appropriate specification Item #.
	Slump	Tex-415-A	At time and location strength specimens are made	1 test for every 10 contractor job control tests.	Sample in accordance with Tex-407-A. Slump is not required for slip-formed pavement. Perform slump and temperature tests on the same load from which the strength specimens are made. Perform entrained air test only when entrained air concrete is specified in the plans. Contractor's required testing will be in accordance with specification requirements for the appropriate specification Item #.
	Entrained Air **(A)**	Tex-416-A or Tex-414-A			
	Temperature	Tex-422-A			
	Thickness	Tex-423-A	Center of paving machine	Every 500 feet	Methods other than Tex-423-A may be shown on the plans.
	Ride Quality Surface Test Type B **(A)**	Tex-1001-S	Final riding surface of travel lanes		Engineer may verify contractor's results for surface test Type B. For traditional design-bid-build TxDOT projects, CST has contracted with TTI to perform random ride verification at 10% frequency. Results from surface test Type A are not required to be reported.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE V – FOOTNOTES	
A	When this project acceptance test fails but the product is accepted, document the reasons for acceptance on the Letter of Certification of Materials Used or in the SiteManager Remarks field.
B	When a project test does not meet the specified strength requirements and a reduced pay factor is assigned, document the analysis on the Letter of Certification of Materials Used.
C	Attach the corresponding QM test report for SiteManager projects to satisfy project sampling and testing requirements.
D	Each test performed that is based on a quantity of material is considered “or fraction thereof” for calculating number of tests.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE VI – ASPHALT CONCRETE PAVEMENT (Items 341, 342, 344, 346, 347 and 348)

(All testing as noted in Table VI may be waived for exempt production as defined by specification.)

			PROJECT TESTS		
MATERIAL OR PRODUCT	**TEST FOR**	**TEST NUMBER**	**LOCATION (Per Design)**	**FREQUENCY OF SAMPLING (E)**	**REMARKS**
COARSE AGGREGATE	L. A. Abrasion **(A)**	Tex-410-A	Stockpile **(B)**	1 per project, per source	Verify the published value of the source, as listed on the current Material Producer list for BRSQC, meets the project specifications. If not, sample in accordance with Tex-221-F and submit to CST/M&P for testing prior to use in accordance with Tex-499-A. **(C)**
	Magnesium Sulfate Soundness **(A)**	Tex-411-A			
	Surface Aggregate Classification **(A)**	Tex-499-A		1 per project, per source	
	Micro Deval	Tex-461-A		1 per project, per aggregate source	Not required when the Rated Source Soundness Magnesium loss is 15 or less as listed on the current published BRSQC. If testing is required, sample in accordance with Tex-221-F.
COMBINED AGGREGATE	Sand Equivalent	Tex-203-F	Stockpiles, hot bins or feeder belts	1 per project, per source, per design	Does not apply to Item 342. Sample in accordance with Tex-221-F. The timing of when the test is performed is at the discretion of the Engineer.
ASPHALT BINDER	Compliance with Item 300 Binder & Tack Coat **(A)**		Sampled, tested and pre-approved by CST/M&P. Project test sampled at the Plant for Binder & Road for Tack Coat	1 each for binder and tack coat per project, per grade, per source	Test a minimum of one sample taken from the project. Sample tack coat at the distributor on the roadway in accordance with Tex-500C, Part III. Sample binder at hot mix plant in accordance with Tex-500-C, Part II. Binder should arrive on the project pre-approved. If not pre-approved, sample binder before use.
MIX DESIGN	Compliance with applicable specification	Tex-204-F	At source (if not approved)	Min 1 design per Mix Type and Asphalt Grade	Verify that aggregates, recycled asphalt pavement, recycled asphalt shingles, mineral filler, asphalt binder, anti-stripping additives, and warm mix systems are on the Material Producer List where applicable and that they meet project specification requirements. Project sampling and testing may be conducted on individual materials as necessary for control.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE VI – ASPHALT CONCRETE PAVEMENT (Items 341, 342, 344, 346, 347 and 348)

(All testing as noted in Table VI may be waived for exempt production as defined by specification.)

			PROJECT TESTS		PROJECT INDEPENDENT ASSURANCE TESTS		
MATERIAL OR PRODUCT	**TEST FOR**	**TEST NUMBER**	**LOCATION**	**FREQUENCY (Per Design)**	**LOCATION**	**FREQUENCY**	**REMARKS**
COMPLETE MIXTURE	Asphalt Content (%) **(A)**	Tex-236-F	Engineer Truck Sample **(D)**	Minimum 1 per Lot			Sample in accordance with Tex-222-F. Determine correlation factors for ignition oven using Tex-236-F at a minimum of one per project.
	Voids in Mineral Aggregates (VMA)	Tex-207-F	Truck Sample Plant Produced **(D)**	1 per Sublot	Truck	1 per 10 Lots only if compactor is shared by Contractor and State	Sample in accordance with Tex-222-F. Does not apply to Item 342, "Permeable Friction Course." Contractor's required testing will be in accordance with specification requirements for the appropriate specification Item #.
	Gradation **(A)**	Tex-236-F	Engineer Truck Sample **(D)**	Minimum 1 per 12 Sublots **(E)**			Sample in accordance with Tex-222-F. Determine correlation factors for ignition oven using Tex-236-F at a minimum of one per project.
	Boil Test	Tex-530-C	Truck Sample	1 per project			Sample in accordance with Tex-222-F. Unless waived by the Engineer.
	Indirect Tensile Strength – Dry	Tex-226-F					Sample in accordance with Tex-222-F. Unless waived by the Engineer. Does not apply to Items 342, 346, and 348.
	Moisture Content	Tex-212-F, Part II	Engineer Truck Sample				Sample in accordance with Tex-222-F.
	Lab Molded Density **(A)**	Tex-207-F	Truck Sample **(D)**	1 per Sublot 1 per Lot for Item 347	Truck	1 per 10 Lots only if compactor is shared by Contractor and State	Sample in accordance with Tex-222-F. Contractor's required testing will be in accordance with specification requirements for the appropriate specification Item #.
	Drain Down Test **(A)**	Tex-235-F	Engineer Truck Sample	1 per project 1 per Lot for Item 342			Sample in accordance with Tex-222-F. Not required for Item 341 and Item 344.
	Hamburg Wheel Test **(A)**	Tex-242-F	Engineer Truck Sample	1 per project			Sample in accordance with Tex-222-F. Sample during production. Does not apply to Item 348.
	Overlay Test	Tex-248-F	Engineer Truck Sample	1 per project			Sample in accordance with Tex-222-F. Does not apply to Items 341, 344, and 348.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE VI – ASPHALT CONCRETE PAVEMENT (Items 341, 342, 344, 346, 347, and 348)

(All testing as noted in Table VI may be waived for exempt production as defined by specification.)

			PROJECT TESTS		
MATERIAL OR PRODUCT	**TEST FOR**	**TEST NUMBER**	**LOCATION**	**FREQUENCY (Per Design)**	**REMARKS**
ROADWAY	In-Place Air Voids **(A)**	Tex-207-F	Roadway **(D)**	2 cores per Sublot	Two cores taken per Sublot and averaged. Sample in accordance with Tex-222-F. Does not apply to Items 342, 347, and 348.
ROADWAY	Segregation Profile **(A)**	Tex-207-F, Part V	Roadway	1 per project	Not required when Contractor uses thermal imaging system. Does not apply to Items 342, 347, and 348.
	Joint Density **(A)**	Tex-207-F, Part VII	Roadway	1 per project	
	Thermal Profile	Tex-244-F	Immediately behind paver	1 per project	Not required when Contractor uses thermal imaging system.
	Ride Quality Test Type B **(A)**	Tex-1001-S	Final riding surface of travel lanes	1 per project	Engineer may verify Contractor's results for surface test Type B. For traditional design-bid-build TxDOT projects, CST has contracted with TTI to perform random ride verification at 10% frequency. Results for surface test Type A are not required to be reported.
	Permeability	Tex-246-F	Roadway	1 per project	Only applies to Items 342, 347, and 348.
FABRIC UNDERSEAL	Compliance with DMS-6220		Sampled, tested, and approved by CST/M&P		Sampling must be in accordance with Tex-735-I. Verify the source is listed on the current Material Producer List for Silt Fence, Filter Fabric, and Fabric Underseals. If not, sample and test prior to use in accordance with DMS-6220.

TABLE VI – FOOTNOTES

A	When this project acceptance test fails but the product is accepted, document the reasons for acceptance on the Letter of Certification of Materials Used or in the SiteManager Remarks field. This letter is required only for Asphalt Content and/or Gradation when production of complete mixture is suspended as required by QC/QA specifications.
B	Sampling may be performed at the plant, quarry, or both. Aggregate properties may be re-tested at any time during the project. These project tests may be used for one or more projects furnishing hot mix with the same aggregate source.
C	Attach the corresponding QM test report for SiteManager projects to satisfy project sampling and testing requirements.
D	Perform random sampling as specified in Tex-225-F, "Random Selection of Bituminous Mixture Samples."
E	Each test performed that is based on a quantity of material is considered "or fraction thereof" for calculating number of tests.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE VII – ASPHALT CONCRETE PAVEMENT (Items 334)
(Refer to DMS-9210, "Limestone Rock Asphalt (LRA)," for testing requirements for Item 330.)

			PROJECT TESTS		
MATERIAL OR PRODUCT	**TEST FOR**	**TEST NUMBER**	**LOCATION**	**FREQUENCY (Per Design) (F)**	**REMARKS**
COARSE AGGREGATE	L. A. Abrasion **(A)**	Tex-410-A	Stockpile **(B)**	1 per project, per source	Verify the published value of the source, as listed on the current Material Producer List for BRSQC, meets the project specifications. If not, sample in accordance with Tex-221-F and submit to CST/M&P for testing prior to use in accordance with Tex-499-A. **(D)**
	Magnesium Sulfate Soundness **(A)**	Tex-411-A			
	Micro Deval	Tex-461-A			Sample in accordance with Tex-221-F. Testing frequency may be reduced or eliminated based on a satisfactory test history.
	Surface Aggregate Classification **(A)**	Tex-499-A	Stockpile **(B)**	1 per project, per source	Verify the published value of the source, as listed on the current Material Producer List for BRSQC, meets the project specifications. If not, sample in accordance with Tex-221-F and submit to CST/M&P for testing prior to use in accordance with Tex-499-A. SiteManager Quality Monitoring test documentation is accomplished by attaching an approved mix design.
COMBINED AGGREGATE	Sand Equivalent	Tex-203-F	Stockpiles, hot bins or feeder belts	1 per project, per source	Sample in accordance with Tex-221-F. The timing of when the test is performed is at the discretion of the Engineer.
ASPHALT BINDER	Compliance with Item 300 Binder & Tack Coat **(A) (C)**		Sampled, tested and pre-approved by CST/M&P. Project test sampled at the Plant for Binder & Road for Tack Coat	1 each for binder and tack coat per project, per grade, per source	Test a minimum of one sample from production. Sample tack coat at the distributor on the roadway in accordance with Tex-500-C, Part III. Sample binder at hot mix plant in accordance with Tex-500-C, Part II. Binder should arrive on the project pre-approved. If not pre-approved, sample binder before use.
MIX DESIGN	Compliance with applicable specification	Tex-204-F	At source (if not approved)	Min 1 design per Mix Type and Asphalt Grade	Verify that aggregates, recycled asphalt pavement, recycled asphalt shingles, mineral filler, asphalt binder, anti-stripping additives, and warm mix systems are on the Material Producer List where applicable and that they meet project specification requirements. Project sampling and testing may be conducted in individual materials as necessary for control.
COMPLETE MIXTURE	Asphalt Content (%) **(A)**	Tex-236-F	Engineer Truck Sample **(E)**	Minimum of 1 per 5,000 tons	Sample in accordance with Tex-222-F. Determine correlation factors for ignition oven using Tex-236-F at a minimum of one per project.
	Voids in Mineral Aggregates (VMA)	Tex-207-F	Truck Sample Plant Produced **(E)**	1 per 5,000 tons	Sample in accordance with Tex-222-F.
	Gradation **(A)**	Tex-236-F	Truck Sample	Minimum 1 per 5,000 tons	Sample in accordance with Tex-222-F. Determine correlation factors for ignition oven using Tex-236-F at a minimum of one per project.
	Boil Test	Tex-530-C		1 per project	Sample in accordance with Tex-222-F. The timing of when the test is performed is at the discretion of the Engineer.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE VII – ASPHALT CONCRETE PAVEMENT (Items 334)
(Refer to DMS-9210, "Limestone Rock Asphalt (LRA)," for testing requirements for Item 330.)

			PROJECT TESTS		
MATERIAL OR PRODUCT	**TEST FOR**	**TEST NUMBER**	**LOCATION**	**FREQUENCY (Per Design) (F)**	**REMARKS**
COMPLETE MIXTURE	Moisture Content	Tex-212-F, Part II	Truck Sample	1 per 5,000 tons	Sample in accordance with Tex-222-F. Performed by CST/M&P at the point of production for payment calculations.
	Hydrocarbon-Volatile Content	Tex-213-F		1 per 5,000 tons	Sample in accordance with Tex-222-F. The timing of when the test is performed is at the discretion of the Engineer.
	Lab Molded Density **(A)**	Tex-207-F		1 per 5,000 tons	Sample in accordance with Tex-222-F.
	Hveem Stability **(A)**	Tex-208-F		1 per 5,000 tons	Sample in accordance with Tex-222-F. The timing of when the test is performed is at the discretion of the Engineer.
ROADWAY	Ride Quality Test Type B **(A)**	Tex-1001-S	Final riding surface of travel lanes		Engineer may verify Contractor's results for surface test Type B. For traditional design-bid-build TxDOT projects, CST has contracted with TTI to perform random ride verification at 10% frequency. Results from surface test Type A are not required to be reported.

TABLE VII – FOOTNOTES

A	When this project acceptance test fails but the product is accepted, document the reasons for acceptance on the Letter of Certification of Materials Used or in the SiteManager Remarks field.
B	Sampling may be performed at the plant, quarry, or both. Aggregate properties may be re-tested at any time during the project.
C	Or as called for in the Specifications.
D	Attach the corresponding QM test report for SiteManager projects to satisfy project sampling and testing requirements.
E	Perform random sampling as specified in Tex-225-F, "Random Selection of Bituminous Mixture Samples."
F	Each test performed that is based on a quantity of material is considered "or fraction thereof" for calculating number of tests.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE VIII – ASPHALT CONCRETE PAVEMENT (Item 340)

			PROJECT TESTS		
MATERIAL OR PRODUCT	**TEST FOR**	**TEST NUMBER**	**LOCATION**	**FREQUENCY**	**REMARKS**
COARSE AGGREGATE	L. A. Abrasion **(A)**	Tex-410-A	Stockpile **(B)**	1 per project, per source	Verify the published value of the source, as listed on the current Material Producer List for BRSQC, meets the project specifications. If not, sample in accordance with Tex-221-F and submit to CST/M&P for testing prior to use in accordance with Tex-499-A. **(C)**
	Magnesium Sulfate Soundness **(A)**	Tex-411-A			
	Micro Deval	Tex-461-A	Stockpile **(B)**	1 per project, per source	Sample in accordance with Tex-221-F. Testing frequency may be reduced or eliminated based on a satisfactory test history.
	Surface Aggregate Classification **(A)**	Tex-499-A	Stockpile **(B)**	1 per project, per source	Verify the published value of the source, as listed on the current Material Producer list for BRSQC, meets the project specifications. If not, sample in accordance with Tex-221-F and submit to CST/M&P for testing prior to use in accordance with Tex-499-A. **(C)**
COMBINED AGGREGATE	Sand Equivalent	Tex-203-F	Stockpiles, hot bins or feeder belts	1 per project, per design	Sample in accordance with Tex-221-F.
ASPHALT BINDER	Compliance with Item 300 Binder & Tack Coat **(A)**		Sampled, tested and pre-approved by CST/M&P. Plant for Binder & Road for Tack Coat	1 each for binder and tack coat per project, per grade, per source	Test a minimum of 1 sample taken from the project. Sample tack coat at the distributor on the roadway in accordance with Tex-500-C, Part III. Sample binder at hot mix plant in accordance with Tex-500-C, Part II. Binder should arrive on the project pre-approved. If not pre-approved, sample binder before use.
MIX DESIGN	Compliance with applicable specification	Tex-204-F	At source (if not approved)	Min. 1 design per Mix Type and Asphalt Grade	Verify that aggregates, recycled asphalt pavement, recycled asphalt shingles, mineral filler, asphalt binder, anti-stripping additives, and warm mix systems are on the Material Producer List where applicable and that they meet project specification requirements. Project sampling and testing may be conducted in individual materials as necessary for control.
COMPLETE MIXTURE	Asphalt Content (%)	Tex-236-F	Truck Sample **(D)**	Minimum of 1 per day	Sample in accordance with Tex-222-F. Determine correlation factors for ignition oven using Tex-236-F at a minimum of one per project.
	Voids in Mineral Aggregates (VMA)	Tex-207-F	Truck Sample Plant Produced **(D)**	1 per day	Sample in accordance with Tex-222-F.
	Gradation **(A)**	Tex-236-F	Truck Sample	Minimum 1 per day	Sample in accordance with Tex-222-F. Determine correlation factors for ignition oven using Tex-236-F at a minimum of one per project.
	Boil Test	Tex-530-C		1 per project	Sample in accordance with Tex-222-F. Unless waived by the Engineer.
	Indirect Tensile Strength – Dry	Tex-226-F		1 per project, per design	Sample in accordance with Tex-222-F. Unless waived by the Engineer.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE VIII – ASPHALT CONCRETE PAVEMENT (Item 340)

			PROJECT TESTS		
MATERIAL OR PRODUCT	**TEST FOR**	**TEST NUMBER**	**LOCATION**	**FREQUENCY**	**REMARKS**
COMPLETE MIXTURE	Lab Molded Density **(A)**	Tex-207-F	Truck Sample	1 per day	Sample in accordance with Tex-222-F.
	Hamburg Wheel Tracker **(A)**	Tex-242-F		1 per project	Sample in accordance with Tex-222-F. Sample during production.
ROADWAY	Air Voids **(A)**	Tex-207-F	Selected by the Engineer **(D)**	1 per day (2 Cores)	Sample in accordance with Tex-222-F.
	Ride Quality Test Type B **(A)**	Tex-1001-S	Final riding surface of travel lanes		Engineer may verify Contractor's results for surface test Type B. For traditional design-bid-build TxDOT projects, CST has contracted with TTI to perform random ride verification at 10% frequency. Results from surface test Type A are not required to be reported.
FABRIC UNDERSEAL	Compliance with DMS-6220		Sampled, tested, and approved by CST/M&P		Sample in accordance with Tex-735-I. Verify the source is listed on the current Material Producer List for Silt Fence, Filter Fabric, and Fabric Underseals. If not sample and submit to CST/M&P for testing prior to use in accordance with DMS-6220.

TABLE VIII – FOOTNOTES

A	When this project acceptance test fails but the product is accepted, document the reasons for acceptance on the Letter of Certification of Materials Used or in the SiteManager Remarks field. This letter is required only for Asphalt Content and/or Gradation when production of complete mixture is suspended as required by QC/QA specifications.
B	Sampling may be performed at the plant, quarry, or both. Aggregate properties may be re-tested at any time during the project. These project tests may be used for one or more projects furnishing hot mix with the same aggregate source.
C	Attach the corresponding QM test report for SiteManager projects to satisfy project sampling and testing requirements.
D	Perform random sampling as specified in Tex-225-F, "Random Selection of Bituminous Mixture Samples."

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE IX – MICROSURFACING (Item 350)

			PROJECT TESTS		
MATERIAL OR PRODUCT	**TEST FOR**	**TEST NUMBER**	**LOCATION OF SAMPLING**	**FREQUENCY (Per Design)**	**REMARKS**
AGGREGATE	5-Cycle Magnesium Sulfate Soundness **(A)**	Tex-411-A	Stockpile **(B)**	1 per project, per source	Verify the published value of the source, as listed on the current Material Producer list for BRSQC meets the project specifications. If not, sample in accordance with Tex-221-F and submit to CST/M&P for testing at 1 per project, per source. **(C)**
	Gradation	Tex-200-F, Part II		1 per project, per source	Sample in accordance with Tex-221-F.
	Crushed Face Count	Tex-460-A		1 per project, per source	Sample in accordance with Tex-221-F.
	Acid Insoluble **(A)**	Tex-612-J		1 per project, per source	Verify the value of the source, as listed on the current BRSQC, meets the project specifications. If not, sample and submit to CST/M&P for testing prior to use in accordance with Tex-499-A. Sample in accordance with Tex-221-F. **(C)**
	Surface Aggregate Classification	Tex-499-A	Stockpile, or BRSQC **(B)**	1 per project, per source	Verify the published value of the source, as listed on the current Material Producer list for BRSQC meets the project specifications. If not, sample in accordance with Tex-221-F and submit to CST/M&P for testing at 1 per project, per source. **(C)**
COMBINED BLEND	Sand Equivalent	Tex-203-F	Stockpile **(B)**	1 per project, per source	Sample in accordance with Tex-221-F.
ASPHALT BINDER	Compliance with Item 300 Binder & Tack Coat **(A)**		Sampled, tested, and pre-approved by CST/M&P. Project test sampled at the Plant for Binder & Road for Tack Coat	1 each for binder and tack coat per project, per grade, per source	Test a minimum of one sample during production. Sample tack coat at the distributor on the roadway in accordance with Tex-500-C, Part III. Sample binder at microsurfacing machine in accordance with Tex-500-C, Part III. Binder should arrive on the project pre-approved. If not pre-approved, sample binder before use.
CEMENT	Compliance with DMS-4600				Verify the source is listed on the current Material Producer List for Cement. If not, sample and submit to CST/M&P for testing prior to use in accordance with DMS-4600.
COMPLETE MIX	Asphalt Content	Tex-236-F	During production	1 per day	Sample in accordance with Tex-222-F. Determine correlation factors for ignition oven using Tex-236-F at a minimum of one per project.
	Gradation	Tex-200-F, Part II Tex-236-F			Sample in accordance with Tex-222-F. Determine correlation factors for ignition oven use at a minimum of one per project.

This is a guide for minimum sampling and testing.
Testing frequency may need to be increased for high material variability or when test results approach specification limits.

TABLE IX – FOOTNOTES	
A	When this project acceptance test fails but the product is accepted, document the reasons for acceptance on the Letter of Certification of Materials Used or in the SiteManager Remarks field. This letter is required only for Asphalt Content and/or Gradation when production of complete mixture is suspended as required by QC/QA specifications.
B	Sampling may be performed at the plant, quarry, or both. Aggregate properties may be re-tested at any time during the project. These project tests may be used for one or more projects furnishing hot mix with the same aggregate source.
C	Attach the corresponding QM test report for SiteManager projects to satisfy project sampling and testing requirements.
D	Each test performed that is based on a quantity of material is considered “or fraction thereof” for calculating number of tests.

APPENDIX C

AASHTO ACCREDITED LABORATORIES

AASHTO Accredited CMT Laboratories in Texas

* Directory of accredited laboratories and scope of testing is maintained on the AASHTO Materials Reference Laboratory website at: http://www.amrl.net. Laboratory must be accredited for each specific test performed.

INDEX: SEE NEXT SHEET

OWNER: CITY OF AUSTIN

DEVELOPER: WILLIAMSON COUNTY

ENGINEER/SURVEYOR: BURY
221 WEST 6th STREET
SUITE 600
AUSTIN TX, 78701
P: (512) 328-0011
F: (512) 328-0325

ROAD CLASSIFICATION: MAD4
DESIGN SPEED: 35 MPH
EXISTING ADT: 9500 (2015)
DESIGN ATD: 25,500 (2035) VPD
PERCENT TRUCKS: 10.9
SHARED USE PATH DESIGN SPEED: 20 MPH
AREA OF DISTURBED SOIL = 4.25 ACRES

ZONING: N/A- MOST OF THE PROJECT IS LOCATED WITHIN EXISTING ROW. POND 2 IMPROVEMENTS ARE LOCATED WITHIN SF-3 ZONING IN DRAINAGE EASEMENTS. SWALE A IMPROVEMENTS ARE LOCATED WITHIN GO-CO AND SF-2 ZONING IN DRAINAGE EASEMENTS.

EDWARDS RECHARGE ZONE: THIS PROJECT IS LOCATED OVER THE EDWARDS AQUIFER RECHARGE ZONE. THIS PROJECT IS SUBJECT TO THE VOID ANO WATER FLOW MITIGATION RULE (COA ECM 1.12.0 AND COA ITEM NO. 6585 OF THE SSM) PROVISION THAT ALL TRENCHING GREATER THEN 5 FEET DEEP MUST BE INSPECTED BY A GEOLOGIST (TEXAS P.G) OR A GEOLOGIST'S REPRESENTATIVE.

WATERSHED STATUS: THE PROJECT IS LOCATED WITHIN THE LAKE CREEK WATERSHED, WHICH IS CLASSIFIED AS A SUBURBAN WATERSHED BY THE CITY OF AUSTIN AND SHALL BE DEVELOPED, CONSTRUCTED, AND MAINTAINED IN ACCORDANCE WITH CHAPTER 25 OF THE CODE OF THE CITY OF AUSTIN.

WATERSHED RELATED CASES: ZONING: C14-2008-0045, ANNEXATION: C7A-08-008, SITEPLAN: SP-2008-0095C
SUBDIVISION: C8J-2008-0065.0B
C8J-2008-0056.3B
C8-85-29.010.4A
C8-85-029.08.2C
C8-85-029.012.3B

FLOODPLAIN: NO PORTION OF THE PROJECT IS LOCATED WITHIN THE BOUNDARIES OF THE 100 YEAR FLOODPLAIN AS SHOWN ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL No. 48491C0610E DATED SEPTEMBER 26, 2008 FOR WILLIAMSON COUNTY, TEXAS.

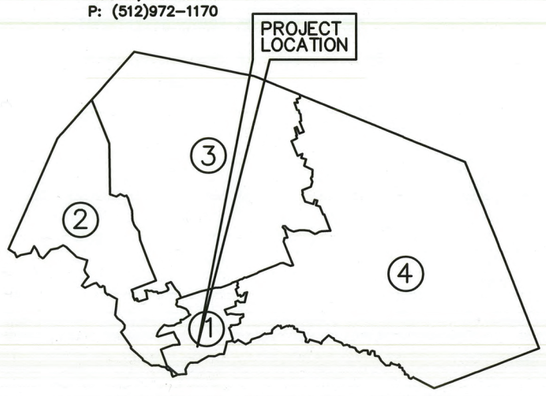
PRESSURE ZONE: H41- NORTHWEST B REDUCED (NWB9) 80 PSI TYPICAL

NET LENGTH OF ROADWAY = 2948.11 FT (0.558 MI)
NET LENGTH OF PROJECT = 2948.11 FT (0.558 MI)

SPECIFICATIONS: CITY OF AUSTIN
STANDARD SPECIFICATIONS

REGISTERED ACCESSIBILITY SPECIALIST (RAS)
INSPECTION REQUIRED
TDLR OR EABPRJ _____

PRESSURE ZONE: H-41-NORTHWEST B REDUCED
(NWB9)-80 PSI TYPICAL
AWU PROJECT SPONSOR: DUSTIN RHODES
625 E. 10TH ST
SUITE 400
AUSTIN, TX 78701
P: (512)972-1170



WILLIAMSON COUNTY, TX.

WILLIAMSON COUNTY

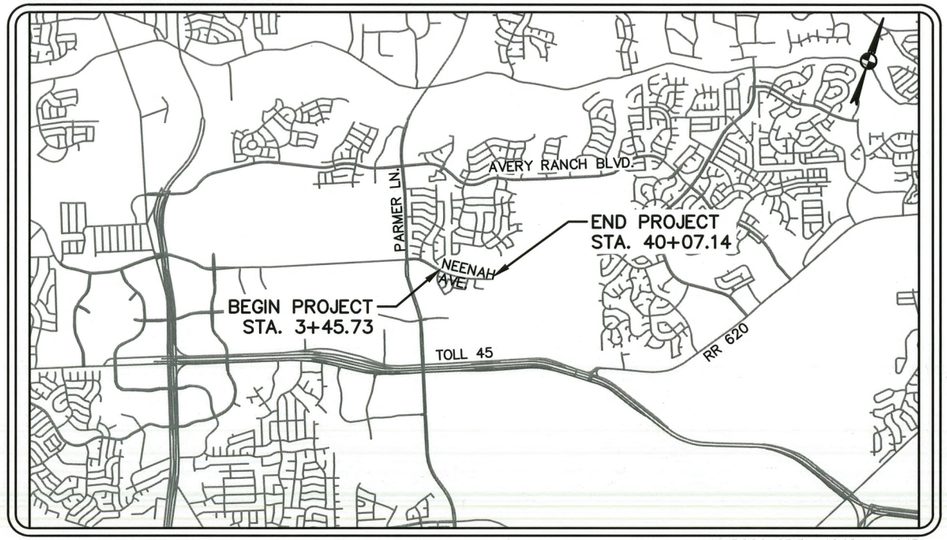
NEENAH AVENUE WIDENING

WIDENING OF AN EXISTING ASPHALT CONCRETE PAVEMENT, CONSISTING OF GRADING, STORM DRAIN CULVERTS, DRIVEWAYS, ASPHALT CONCRETE PAVEMENT, DETENTION, WATER QUALITY, RETAINING WALL, CONCRETE DRIVEWAYS, PAVEMENT MARKINGS AND SIGNING.

LIMITS: FROM OLIVE HILL DR. TO EAST END OF ROADWAY

WILLIAMSON COUNTY PROJECT NO. **1710-194**

AWU PROJECT NO. W-2016-3212.144



EXCEPTIONS: NONE
RAILROADS: NONE
STATION EQUATIONS: NONE

MAPSCO GRID: 404Q & 404R
AWU GRID: H41

LOCATION MAP

NTS

CITY OF AUSTIN FOUNDED 1839

Stantec
221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-1048 TBPLS # F-10107500
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NOTES:
1. RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE VERIFICATION OF ALL DATA, INFORMATION, AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.
2. RESTRICTIVE COVENANT, DOCUMENT NUMBER 2008076297, SHOWS THAT THE PRIVATELY MAINTAINED POND IS PROVIDING WATER QUALITY CONTROL FOR A PORTION OF THIS PROJECT.
3. PRIOR TO FINAL ACCEPTANCE OF THIS PROJECT, POND 2'S SEDIMENTATION BASIN SHALL BE MOWED. POND 2 IS A COA-MAINTAINED POND CONSTRUCTED UNDER COA CASE #C8J-85-029.010.4B.
4. AN ADMINISTRATIVE VARIANCE HAS BEEN GRANTED IN ACCORDANCE WITH LDC 25-8-42 (B)(6) TO ALLOW FOR CUT AND FILL GREATER THAN 4 FEET FOR CONSTRUCTION OF A WATER QUALITY/DETENTION POND.
5. THIS PROJECT IS SUBJECT TO AN INTERLOCAL COOPERATION AGREEMENT BETWEEN THE CITY OF AUSTIN AND WILLIAMSON COUNTY IN A ACCORDANCE WITH THE INTERLOCAL COOPERATION ACT, TEXAS GOVERNMENT CODE SECTION 791.001 et seq.

WILLIAMSON COUNTY 1848

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APPROVED BY:

Dan A Gattis 09-19-2017
JUDGE DAN A. GATTIS DATE
WILLIAMSON COUNTY JUDGE

APPROVED BY:

Terry Cook 9/19/17
TERRY COOK DATE
WILLIAMSON COUNTY COMMISSIONER
PRECINCT NO. 1

APPROVED BY:

Richard Ridings 9/19/2017
RICHARD RIDINGS, P.E. DATE
HNTB CORPORATION
ROAD BOND MANAGEMENT TEAM

DIRECTOR, DATE
DEVELOPMENT SERVICES DEPARTMENT

SITE PLAN/DEVELOPMENT PERMIT NUMBER DATE

AWU PIPELINE ENGINEER DATE
AWU PROJECT: #W-2016-3212.144

REVISIONS/CORRECTIONS							
NUMBER:	DESCRIPTION:	REVISED (R) ADD (A) VOID (V) SHEET No.'s	TOTAL# SHEETS IN PLAN SET	NET CHANGE IMP. COVER (SQ.FT)	TOTAL SITE IMP. COVER (SQ.FT.)/%	CITY OF AUSTIN APPROVAL DATE	DATE IMAGED

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

SUBMITTAL DATE 4/19/2016

FOR CITY USE ONLY:

SITE PLAN APPROVAL Sheet 1 of 273
FILE NUMBER: SP-2016-0186D APPLICATION DATE: _____
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF
CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81,LDC) _____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A) _____ DWPZ ____ DDZ ____

Director, Planning and Development Review Department

RELEASED FOR GENERAL COMPLIANCE: _____ ZONING: _____
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE CURRENT AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

SP-2016-0186D

V:\2220\active\222012028\civil\cad\CD Sheets\General\104023006CRV01.dwg modified by rgflores on Aug 3, 17 3:29 PM

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88	SHARED USE PATH (S) PLAN AND PROFILE STA. 9+00 TO STA. 13+00
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211	TREE MITIGATION PLAN STA. 5+00 TO 13+00
212	TREE MITIGATION PLAN STA. 13+00 TO 21+00
213	TREE MITIGATION PLAN STA. 21+00 TO 29+00
214	TREE MITIGATION PLAN STA. 29+00 TO 37+00
215	TREE MITIGATION PLAN STA. 37+00 TO END
216	TREE MITIGATION PLAN POND 2
217	TREE MITIGATION LEGEND & SUMMARY TABLE
EXISTING UTLITY	
218	EXISTING UTILITY LAYOUT STA. 5+00 TO STA. 13+00
219	EXISTING UTILITY LAYOUT STA. 13+00 TO STA. 21+00
220	EXISTING UTILITY LAYOUT STA. 21+00 TO STA. 29+00
221	EXISTING UTILITY LAYOUT STA. 29+00 TO 37+00
222	EXISTING UTILITY LAYOUT STA. 37+00 TO END
223	ILLUMINATION PLAN SOLERA DR.

SHEET NO.	DESCRIPTION
CROSS SECTIONS	
224	NEENAH. AVE CROSS SECTIONS STA 5+00 – 5+50
225	NEENAH AVE. CROSS SECTIONS STA 6+00 – 6+50
226	NEENAH AVE. CROSS SECTIONS STA 7+00 – 7+50
227	NEENAH AVE. CROSS SECTIONS STA 8+00 – 8+50
228	NEENAH AVE. CROSS SECTIONS STA 8+79 – 9+00
229	NEENAH AVE. CROSS SECTIONS STA 9+50 – 10+00
230	NEENAH AVE. CROSS SECTIONS STA 10+50 – 11+00
231	NEENAH AVE. CROSS SECTIONS STA 11+50 – 12+00
232	NEENAH AVE. CROSS SECTIONS STA 12+50 – 13+00
233	NEENAH AVE. CROSS SECTIONS STA 13+50 – 14+00
234	NEENAH AVE. CROSS SECTIONS STA 14+32
235	NEENAH AVE. CROSS SECTIONS STA 14+50 – 15+00
236	NEENAH AVE. CROSS SECTIONS STA 15+50 – 16+00
237	NEENAH AVE. CROSS SECTIONS STA 16+50 – 17+00
238	NEENAH AVE. CROSS SECTIONS STA 17+48 – 17+50
239	NEENAH AVE. CROSS SECTIONS STA 18+00 – 18+50
240	NEENAH AVE. CROSS SECTIONS STA 19+00 – 19+50
241	NEENAH AVE. CROSS SECTIONS STA 20+00 – 20+50
242	NEENAH AVE. CROSS SECTIONS STA 20+74 – 21+00
243	NEENAH AVE. CROSS SECTIONS STA 21+27
244	NEENAH AVE. CROSS SECTIONS STA 21+50 – 22+00
245	NEENAH AVE. CROSS SECTIONS STA 22+50 – 23+00
246	NEENAH AVE. CROSS SECTIONS STA 23+50 – 24+00
247	NEENAH AVE. CROSS SECTIONS STA 24+50 – 25+00
248	NEENAH AVE. CROSS SECTIONS STA 25+50 – 26+00
249	NEENAH AVE. CROSS SECTIONS STA 26+50 – 26+69
250	NEENAH AVE. CROSS SECTIONS STA 26+80 – 27+00
251	NEENAH AVE. CROSS SECTIONS STA 27+50 – 28+00
252	NEENAH AVE. CROSS SECTIONS STA 28+50 – 29+00
253	NEENAH AVE. CROSS SECTIONS STA 29+50 – 29+58
254	NEENAH AVE. CROSS SECTIONS STA 30+00 – 30+03
255	NEENAH AVE. CROSS SECTIONS STA 30+50 – 31+00
256	NEENAH AVE. CROSS SECTIONS STA 31+50 – 32+00
257	NEENAH AVE. CROSS SECTIONS STA 32+50 – 33+00
258	NEENAH AVE. CROSS SECTIONS STA 33+50 – 34+00
259	NEENAH AVE. CROSS SECTIONS STA 34+50 – 34+66
260	NEENAH AVE. CROSS SECTIONS STA 35+00
261	ALTONA WAY CROSS SECTION 10+50
262	SOLERA DR. CROSS SECTIONS 10+50 – 11+00
UTLITY	
263	C–001 GENERAL NOTES
264	C–101 WATERLINE LAYOUT & RELOCATION SHEET I
265	C–102 WATERLINE LAYOUT & RELOCATION SHEET II
266	C–103 WATERLINE LAYOUT & RELOCATION SHEET I
267	C–104 WATERLINE LAYOUT & RELOCATION SHEET II
268	C–105 WATERLINE "A" PLAN & PROFILE
269	C–106 WATERLINE "B" PLAN & PROFILE
270	C–501 STANDARD WATER DETAILS
271	C–502 STANDARD WATER CONCRETE & STRUCTURE DETAILS
272	C–503 STANDARD WATER CONCRETE & STRUCTURE DETAILS
273	C–504 STANDARD WATER CONCRETE & STRUCTURE DETAILS

TREE MITIGATION TO BE DONE BY OTHERS

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE BY A (*) HAVE BEEN SELECTED BY ME OR UNDER MY SUPERVISION AND ARE APPLICABLE TO THE PROJECT.

Stephanie D Blew
STEPHANIE D. BLEW, P.E.

8.4.2017
DATE

8.4.17
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Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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SHEET INDEX

SHEET 2 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	–	14	WILLIAMSON				2

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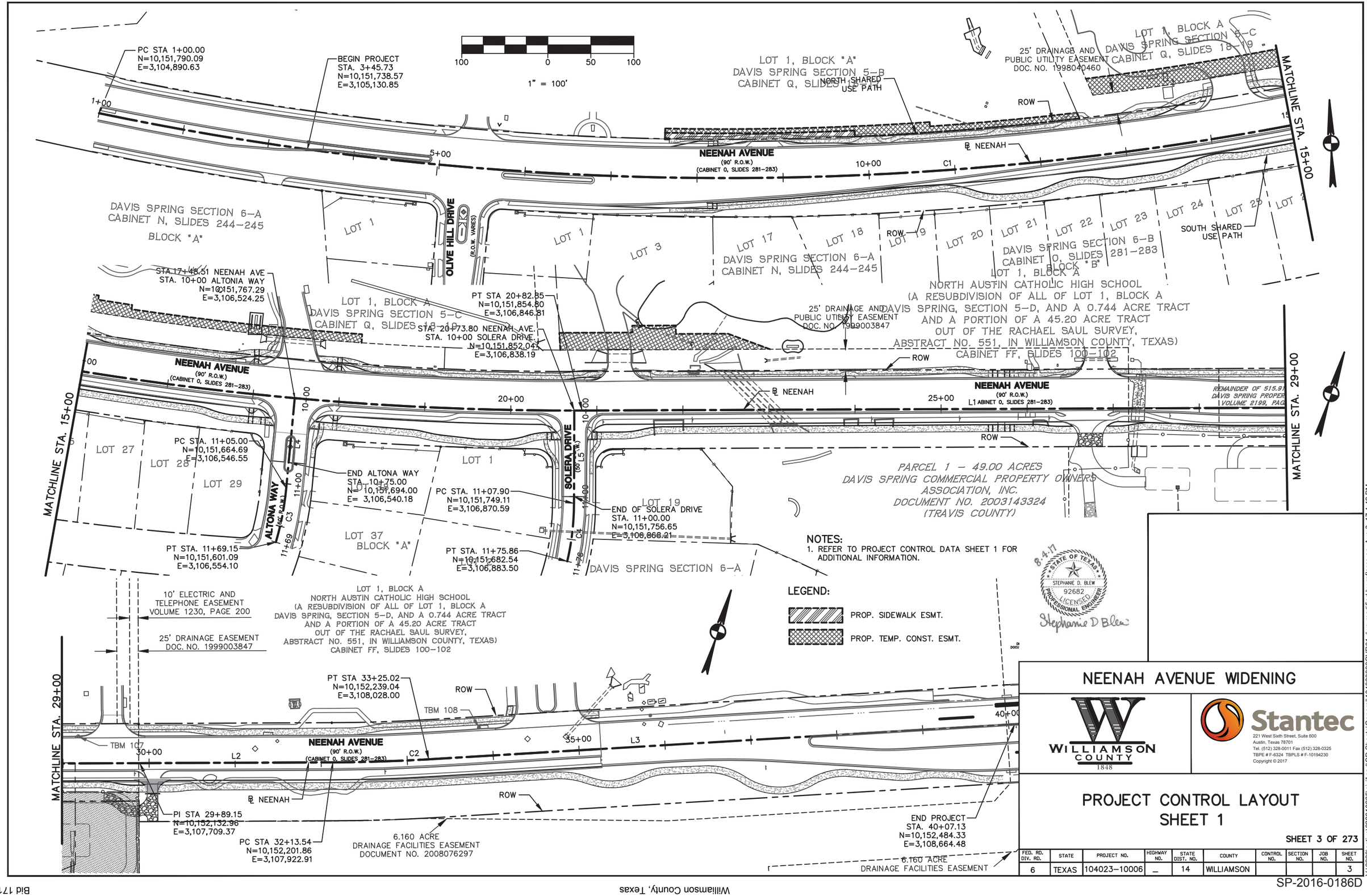

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PROJECT CONTROL LAYOUT SHEET 1

SHEET 3 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				3

SP-2016-0186D

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BENCHMARK INFORMATION:

ELEVATIONS HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) UTILIZING WESTERN DATA SYSTEMS CONTINUALLY OPERATING REFERENCE STATION (CORS) NETWORK AND ADDITIONALLY REFERENCED TO CITY OF AUSTIN AND LCRA GPS CONTROL MONUMENTATION.

THE BASIS OF BEARING OF THE SURVEY SHOWN HEREON IS TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83(96), UTILIZING WESTERN DATA SYSTEMS CONTINUALLY OPERATING REFERENCE STATIONS (CORS) NETWORK.

THIS IS A SURFACE DRAWING, BEARINGS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83(96), CENTRAL ZONE, UTILIZING WESTERN DATA SYSTEMS CONTINUALLY OPERATING REFERENCE STATION (CORS) NETWORK. AND ADDITIONALLY TIED LCRA GPS CONTROL MONUMENTS, COORDINATE VALUES ARE PROJECT SPECIFIC SURFACE VALUES. TO DERIVE GRID VALUES, MULTIPLY BY A COMBINED SCALE FACTOR OF 0.99988, WITH AN ORIGIN POINT OF N 0.0, E 0.0.

BENCHMARK 1: 3 INCH BRASS CAP FOUND IN CONCRETE (LCRA GPS STATION EUD107), FROM INTERSECTION OF RR 620 AND LAKE CREEK PARKWAY, 0.5 MILE ON LAKE CREEK TO INTERSECTION WITH ACORN CREEK TRAIL, MONUMENT IS NORTH OF LAKE CREEK PARKWAY NEAR THE SOUTHWEST CORNER OF FOOTBRIDGE.
PUBLISHED ELEVATION = 959.30'
FOUND ELEVATION = 959.32'
N = 10,140,481.87
E = 3,091,950.36

BENCHMARK 2: 3 INCH BRASS DISC FOUND AT SOUTH END OF INLET (COA GPS STATION F-37-2002), AT THE NORTHEAST CORNER OF THE INTERSECTION OF SWAN DRIVE AND LIRIOPE COVE.
PUBLISHED ELEVATION = 983.89'
FOUND ELEVATION = 984.05'
N = 10,135,924.99
E = 3,094,773.11

TBM 100: PK NAIL AND WASHER SET ON SOUTH SIDE OF NEENAH AVENUE, ±175 FEET WEST OF THE CENTERLINE OF OLIVE HILL DRIVE.
N = 10,151,752.95
E = 3,104,883.40
ELEVATION = 884.62'

TBM 101: PK NAIL AND WASHER SET ON TOP OF NORTH CURBLINE OF NEENAH AVENUE, EAST SIDE OF RAMP, ±40 FEET WEST OF THE CENTERLINE OF OLIVE HILL DRIVE.
N = 10,151,749.19
E = 3,105,291.27
ELEVATION = 887.05'

TBM 102: PK NAIL AND WASHER SET ON TOP OF SOUTH CURBLINE OF NEENAH AVENUE, ±475 FEET EAST OF THE CENTERLINE OF OLIVE HILL DRIVE.
N = 10,151,667.16
E = 3,105,791.52
ELEVATION = 878.88'

TBM 103: PK NAIL AND WASHER SET ON TOP OF NORTH CURBLINE OF NEENAH AVENUE NEAR FIRE HYDRANT, ±375 FEET WEST OF THE CENTERLINE OF ALTONA WAY.
N = 10,151,741.65
E = 3,106,157.10
ELEVATION = 869.19'

TBM 104: PK NAIL AND WASHER SET ON TOP OF NORTH CURBLINE OF NEENAH AVENUE, WEST SIDE OF RAMP, ±30 FEET EAST OF THE CENTERLINE OF ALTONA WAY.
N = 10,151,809.74
E = 3,106,550.62
ELEVATION = 864.11'

TBM 105: PK NAIL AND WASHER SET ON THE TOP OF NORTH CURBLINE OF NEENAH AVENUE, AT THE CENTERLINE OF SOLERA DRIVE.
N = 10,151,885.02
E = 3,106,824.93
ELEVATION = 862.44'

TBM 106: PK NAIL AND WASHER SET ON THE TOP OF NORTH CURBLINE OF NEENAH AVENUE NEAR A FIRE HYDRANT, ±330 FEET EAST OF THE CENTERLINE OF SOLERA DRIVE.
N = 10,151,986,83
E = 3,107,139.01
ELEVATION = 860.91'

TBM 107: PK NAIL AND WASHER SET ON THE TOP OF NORTH CURBLINE OF NEENAH AVENUE, ±825 FEET EAST OF THE CENTERLINE OF SOLERA DRIVE.
N = 10,152,140.90
E = 3,107,631.68
ELEVATION = 858.33'

TBM 108: PK NAIL AND WASHER SET IN THE SOUTHWEST CORNER OF INLET AT NORTH CURBLINE OF NEENAH AVENUE, ±1300 FEET EAST OF THE CENTERLINE OF SOLERA DRIVE.
N = 10,152,291.83
E = 3,108,072.31
ELEVATION = 858.47'

TBM 109: PK NAIL AND WASHER SET AT THE "Y" INTERSECTION OF A TRICKLE CHANNEL, ON THE SOUTH SIDE OF NEENAH AVENUE NEAR THE END OF EXISTING PAVEMENT.
N = 10,152,146.50
E = 3,108,311.25
ELEVATION = 848.54'

℄ NEENAH CURVE TABLE								
NO.	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH	PC STA.	PC NORTHING	PC EASTING
C1	1982.85'	3555.00'	001°36'42"	N88°06'19"E	1957.25'	STA. 1+00.00	N= 10,151,790.09	E= 3,104,890.63
C2	111.48'	1999.91'	002°51'55"	N70°31'13"E	111.47'	STA. 32+13.54	N= 10,152,201.86	E= 3,107,922.91

NEENAH LINE TABLE					
NO.	BEARING	DISTANCE	START STA.	START NORTHING	START EASTING
L1	N72°07'35.32"E	906.30'	STA. 20+82.85	N= 10,151,854.80	E= 3,106,846.81
L2	N72°07'02.32"E	224.39'	STA. 29+89.15	N= 10,152,132.96	E= 3,107,709.37
L3	N68°55'24.32"E	708.30'	STA. 33+25.02	N= 10,152,239.04	E= 3,108,028.00

℄ ALTONA CURVE TABLE								
NO.	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH	PC STA.	PC NORTHING	PC EASTING
C3	64.15'	316.27'	018°11'34"	S6°46'07"E	64.04'	STA. 11+05.00	N= 10,151,664.69	E= 3,106,546.55

℄ ALTONA LINE TABLE					
NO.	BEARING	DISTANCE	START STA.	START NORTHING	START EASTING
L4	S12°15'44.77"E	105.00'	STA. 10+00.00	N= 10,151,767.29	E= 3,106,524.25

℄ SOLERA CURVE TABLE								
NO.	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH	PC STA.	PC NORTHING	PC EASTING
C4	67.96'	300.00'	019°11'18"	S10°58'53"E	67.81'	STA. 11+07.90	N= 10,151,749.11	E= 3,106,870.59

℄ SOLERA LINE TABLE					
NO.	BEARING	DISTANCE	START STA.	START NORTHING	START EASTING
L5	S17°28'15.26"E	107.90'	STA. 10+00.00	N= 10,151,852.04	E= 3,106,838.19

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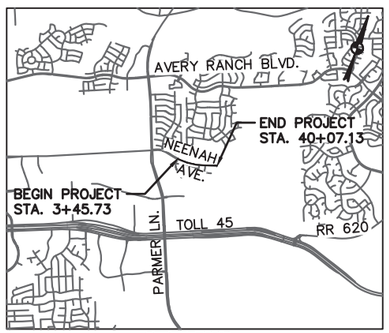

STREET MAP
NTS

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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PROJECT CONTROL DATA
SHEET 1

SHEET 4 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				4

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LEGEND:

PROP. SIDEWALK ESMT.

PROP. TEMP. CONST. ESMT.

NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 2 FOR ADDITIONAL INFORMATION ON THE NORTH SHARED USE PATH ALIGNMENT.
2. REFER TO PROJECT CONTROL DATA SHEET 3 FOR ADDITIONAL INFORMATION ON THE SOUTH SHARED USE PATH ALIGNMENT.

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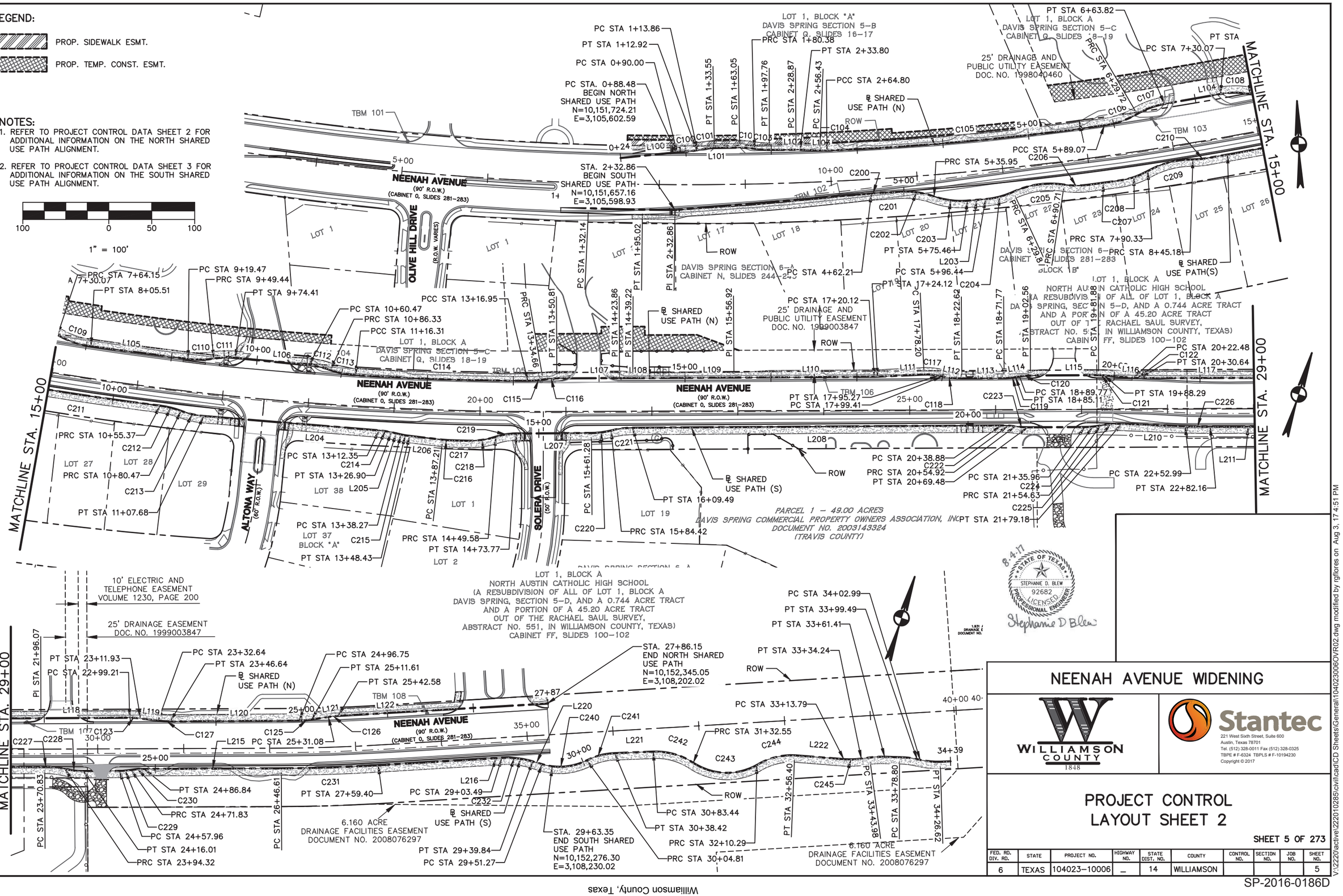
1" = 100'



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PROJECT CONTROL LAYOUT SHEET 2

SHEET 5 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				5

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℄ SHARED USE PATH (N) CURVE TABLE								
NO.	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH	PC STA.	PC NORTHING	PC EASTING
C100	22.92'	104.00'	057°28'17"	N85°57'40"E	22.88'	STA. 0+90.00	N= 10,151,724.15	E= 3,105,604.11
C101	19.69'	96.00'	062°46'35"	N85°31'18"E	19.65'	STA. 1+13.86	N= 10,151,725.93	E= 3,105,627.85
C102	17.33'	96.00'	062°46'35"	S83°25'56"E	17.30'	STA. 1+63.05	N= 10,151,726.75	E= 3,105,676.95
C103	17.37'	104.30'	057°17'37"	S83°02'27"E	17.35'	STA. 1+80.38	N= 10,151,724.77	E= 3,105,694.14
C104	8.37'	100.00'	060°00'00"	S87°45'26"E	8.37'	STA. 2+56.43	N= 10,151,719.57	E= 3,105,769.94
C105	324.27'	3342.53'	001°42'51"	N87°04'03"E	324.15'	STA. 2+64.80	N= 10,151,719.25	E= 3,105,778.30
C106	40.64'	104.00'	057°28'17"	N73°03'40"E	40.39'	STA. 5+89.07	N= 10,151,735.83	E= 3,106,102.02
C107	34.10'	96.00'	062°46'35"	N72°02'32"E	33.92'	STA. 6+29.72	N= 10,151,747.60	E= 3,106,140.66
C108	34.08'	96.00'	062°46'35"	S87°36'34"E	33.91'	STA. 7+30.07	N= 10,151,767.02	E= 3,106,238.56
C109	41.36'	104.00'	057°28'17"	S88°49'51"E	41.09'	STA. 7+64.15	N= 10,151,765.61	E= 3,106,272.44
C110	29.97'	104.00'	057°28'17"	N71°28'17"E	29.87'	STA. 9+19.47	N= 10,151,785.00	E= 3,106,425.67
C111	24.97'	96.00'	062°46'35"	N70°39'58"E	24.90'	STA. 9+49.44	N= 10,151,794.49	E= 3,106,453.99
C112	25.86'	96.00'	062°46'35"	N84°37'30"E	25.79'	STA. 10+60.47	N= 10,151,820.53	E= 3,106,561.68
C113	29.98'	104.00'	057°28'16"	N84°04'16"E	29.87'	STA. 10+86.33	N= 10,151,822.94	E= 3,106,587.35
C114	200.64'	3589.70'	001°35'46"	N74°12'45"E	200.62'	STA. 11+16.31	N= 10,151,826.03	E= 3,106,617.06
C115	17.71'	100.00'	060°00'00"	N67°32'14"E	17.69'	STA. 13+16.95	N= 10,151,880.61	E= 3,106,810.11
C116	16.15'	96.00'	062°46'35"	N67°16'59"E	16.13'	STA. 13+34.66	N= 10,151,887.37	E= 3,106,826.46
C117	17.06'	67.00'	096°32'11"	N77°00'47"E	17.02'	STA. 17+78.20	N= 10,152,027.39	E= 3,107,247.20
C118	23.22'	108.00'	055°09'25"	N78°09'04"E	23.17'	STA. 17+99.41	N= 10,152,031.63	E= 3,107,267.91
C119	13.35'	79.00'	078°31'50"	N67°09'13"E	13.33'	STA. 18+71.77	N= 10,152,051.58	E= 3,107,337.32
C120	12.79'	75.00'	083°37'14"	N67°12'04"E	12.78'	STA. 18+89.77	N= 10,152,058.92	E= 3,107,353.73
C121	6.40'	72.00'	087°57'57"	N74°38'10"E	6.40'	STA. 19+81.88	N= 10,152,088.26	E= 3,107,440.98
C122	8.16'	104.00'	057°28'17"	N74°27'56"E	8.16'	STA. 20+22.48	N= 10,152,097.55	E= 3,107,480.50
C123	12.72'	96.00'	062°46'35"	N75°59'10"E	12.71'	STA. 22+99.21	N= 10,152,182.16	E= 3,107,743.97
C125	14.87'	104.00'	057°28'17"	N67°12'43"E	14.86'	STA. 24+96.75	N= 10,152,238.64	E= 3,107,933.03
C126	11.50'	96.00'	062°46'35"	N66°32'51"E	11.49'	STA. 25+31.08	N= 10,152,253.20	E= 3,107,964.08

℄ SHARED USE PATH (N) LINE TABLE					
NO.	BEARING	DISTANCE	START STA.	START NORTHING	START EASTING
L100	N86°36'07.87"E	66.13'	STA. 0+23.87	N= 10,151,720.23	E= 3,105,538.10
L102	S88°11'10.90"E	31.11'	STA. 1+97.76	N= 10,151,722.67	E= 3,105,711.36
L103	S85°21'35.84"E	22.63'	STA. 2+33.80	N= 10,151,721.40	E= 3,105,747.38
L104	N82°13'09.55"E	66.24'	STA. 6+63.82	N= 10,151,758.06	E= 3,106,172.93
L105	N79°46'35.67"E	113.96'	STA. 8+05.51	N= 10,151,764.77	E= 3,106,313.52
L106	N78°03'56.49"E	86.06'	STA. 9+74.41	N= 10,151,802.73	E= 3,106,477.48
L107	N72°05'34.84"E	73.04'	STA. 13+50.81	N= 10,151,893.60	E= 3,106,841.34
L108	N72°33'31.46"E	15.36'	STA. 14+23.86	N= 10,151,916.06	E= 3,106,910.85
L109	N72°03'19.44"E	117.70'	STA. 14+39.22	N= 10,151,920.66	E= 3,106,925.50
L110	N72°00'27.45"E	163.21'	STA. 15+56.92	N= 10,151,956.92	E= 3,107,037.48
L111	N69°43'01.28"E	54.08'	STA. 17+24.12	N= 10,152,008.65	E= 3,107,196.48
L112	N84°18'32.87"E	4.14'	STA. 17+95.27	N= 10,152,031.22	E= 3,107,263.79
L113	N71°59'35.33"E	49.14'	STA. 18+22.62	N= 10,152,036.39	E= 3,107,290.59
L114	N62°18'51.05"E	4.65'	STA. 18+85.11	N= 10,152,056.75	E= 3,107,349.61
L115	N72°05'16.98"E	79.32'	STA. 19+02.56	N= 10,152,063.87	E= 3,107,365.51
L118	N71°58'56.71"E	103.14'	STA. 21+96.07	N= 10,152,150.25	E= 3,107,645.89
L119	N79°46'50.53"E	20.71'	STA. 23+11.93	N= 10,152,185.23	E= 3,107,756.30
L120	N72°01'14.89"E	150.11'	STA. 23+46.64	N= 10,152,192.31	E= 3,107,790.25
L121	N63°06'58.58"E	19.47'	STA. 25+11.61	N= 10,152,244.40	E= 3,107,946.72
L122	S69°00'08.78"W	244.57'	STA. 25+42.58	N= 10,152,257.77	E= 3,107,974.63

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Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-6324 TBPLS # F-10194230
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PROJECT CONTROL DATA
SHEET 2

SHEET 6 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				6

SP-2016-0186D

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SHARED USE PATH (S) CURVE TABLE								
NO.	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH	PC STA.	PC NORTHING	PC EASTING
C200	4.23'	104.00'	057°28'17"	N87°36'21"E	4.23'	STA. 4+62.21	N= 10,151,667.37	E= 3,105,828.05
C201	27.43'	19796.45'	000°17'22"	N88°40'08"E	27.43'	STA. 4+66.44	N= 10,151,667.55	E= 3,105,832.28
C202	42.08'	102.53'	058°22'19"	S80°09'07"E	41.78'	STA. 4+93.87	N= 10,151,668.18	E= 3,105,859.70
C203	39.51'	94.00'	064°16'12"	S80°31'37"E	39.22'	STA. 5+35.95	N= 10,151,661.04	E= 3,105,900.87
C204	33.43'	96.00'	062°46'38"	N77°27'13"E	33.26'	STA. 5+96.44	N= 10,151,655.52	E= 3,105,960.51
C205	60.84'	104.00'	057°28'17"	N84°14'06"E	59.97'	STA. 6+29.87	N= 10,151,662.75	E= 3,105,992.98
C206	27.11'	96.01'	062°46'11"	S87°05'45"E	27.02'	STA. 6+90.71	N= 10,151,668.77	E= 3,106,052.65
C207	37.33'	3435.10'	001°40'05"	N84°32'35"E	37.33'	STA. 7+17.81	N= 10,151,667.40	E= 3,106,079.63
C208	35.18'	96.00'	062°46'35"	N73°43'57"E	34.99'	STA. 7+55.14	N= 10,151,670.95	E= 3,106,116.79
C209	54.85'	108.00'	055°09'25"	N77°46'58"E	54.26'	STA. 7+90.33	N= 10,151,680.75	E= 3,106,150.38
C210	16.40'	96.00'	062°46'35"	N87°26'14"E	16.38'	STA. 8+45.18	N= 10,151,692.24	E= 3,106,203.41
C211	193.79'	3575.50'	001°36'09"	N80°59'24"E	193.76'	STA. 8+61.58	N= 10,151,692.97	E= 3,106,219.78
C212	25.10'	104.00'	057°28'17"	N86°21'08"E	25.04'	STA. 10+55.37	N= 10,151,723.31	E= 3,106,411.15
C213	27.21'	96.00'	062°46'35"	N85°08'49"E	27.12'	STA. 10+80.47	N= 10,151,724.91	E= 3,106,436.14
C214	14.56'	104.00'	057°28'17"	N81°02'11"E	14.54'	STA. 13+12.35	N= 10,151,773.15	E= 3,106,662.61
C215	10.17'	96.00'	062°46'35"	N82°00'45"E	10.16'	STA. 13+38.27	N= 10,151,776.40	E= 3,106,688.30
C216	8.31'	96.00'	062°46'35"	N76°29'55"E	8.31'	STA. 13+87.21	N= 10,151,785.22	E= 3,106,736.42
C217	21.83'	3590.00'	001°35'46"	N73°50'40"E	21.83'	STA. 13+95.52	N= 10,151,787.16	E= 3,106,744.50
C218	32.22'	96.00'	062°46'35"	N64°03'16"E	32.07'	STA. 14+17.36	N= 10,151,793.24	E= 3,106,765.47
C219	24.19'	79.00'	078°31'50"	N63°12'40"E	24.10'	STA. 14+49.58	N= 10,151,807.27	E= 3,106,794.31
C220	23.14'	96.00'	062°46'35"	N65°04'44"E	23.08'	STA. 15+61.28	N= 10,151,845.20	E= 3,106,899.05
C221	25.06'	104.00'	057°28'17"	N65°04'44"E	25.00'	STA. 15+84.42	N= 10,151,854.92	E= 3,106,919.98
C222	16.04'	104.00'	057°28'17"	N76°24'05"E	16.02'	STA. 20+38.88	N= 10,151,998.27	E= 3,107,350.99
C223	14.57'	96.00'	062°46'35"	N76°28'23"E	14.55'	STA. 20+54.92	N= 10,152,002.03	E= 3,107,366.56
C224	18.67'	96.00'	062°46'35"	N66°33'19"E	18.64'	STA. 21+35.96	N= 10,152,025.84	E= 3,107,443.98
C225	24.56'	104.00'	057°28'17"	N67°44'54"E	24.50'	STA. 21+54.63	N= 10,152,033.26	E= 3,107,461.08
C226	29.17'	700.50'	008°11'10"	N73°19'10"E	29.17'	STA. 22+52.99	N= 10,152,062.24	E= 3,107,554.88
C227	23.49'	104.00'	057°28'17"	N78°35'46"E	23.44'	STA. 23+70.83	N= 10,152,097.83	E= 3,107,667.22
C228	21.69'	96.00'	062°46'35"	N78°35'37"E	21.64'	STA. 23+94.32	N= 10,152,102.46	E= 3,107,690.19
C229	13.87'	96.00'	062°46'35"	N67°59'02"E	13.85'	STA. 24+57.96	N= 10,152,119.62	E= 3,107,751.33
C230	15.01'	104.00'	057°28'17"	N67°58'54"E	15.00'	STA. 24+71.83	N= 10,152,124.82	E= 3,107,764.18
C231	112.79'	2023.41'	002°49'55"	N70°31'13"E	112.78'	STA. 26+46.61	N= 10,152,179.50	E= 3,107,930.13
C232	36.35'	104.00'	057°28'17"	N78°56'16"E	36.17'	STA. 29+03.49	N= 10,152,268.92	E= 3,108,170.90
C240	53.55'	71.00'	089°32'02"	N67°20'47"E	52.29'	STA. 29+51.27	N= 10,152,276.07	E= 3,108,217.82
C241	33.61'	79.00'	078°31'50"	N57°55'45"E	33.36'	STA. 30+04.81	N= 10,152,296.21	E= 3,108,266.07
C242	49.11'	79.00'	078°31'50"	N87°55'30"E	48.32'	STA. 30+83.44	N= 10,152,329.23	E= 3,108,336.68
C243	77.74'	71.00'	089°32'02"	N74°21'54"E	73.91'	STA. 31+32.55	N= 10,152,330.98	E= 3,108,384.96
C244	46.11'	78.94'	078°36'15"	N57°54'19"E	45.46'	STA. 32+10.29	N= 10,152,350.90	E= 3,108,456.14
C245	20.45'	96.00'	062°46'35"	N70°45'59"E	20.41'	STA. 33+13.79	N= 10,152,388.09	E= 3,108,550.54

℄ SHARED USE PATH (S) LINE TABLE					
NO.	BEARING	DISTANCE	START STA.	START NORTHING	START EASTING
L203	N87°25'49.74"E	20.97'	STA. 5+75.46	N= 10,151,654.58	E= 3,105,939.56
L204	N77°01'35.51"E	204.66'	STA. 11+07.68	N= 10,151,727.20	E= 3,106,463.17
L205	N85°02'46.03"E	11.37'	STA. 13+26.90	N= 10,151,775.41	E= 3,106,676.98
L206	N78°58'43.70"E	38.78'	STA. 13+48.43	N= 10,151,777.81	E= 3,106,698.36
L207	N71°58'59.66"E	87.52'	STA. 14+73.77	N= 10,151,818.13	E= 3,106,815.82
L208	N71°58'59.66"E	429.39'	STA. 16+09.49	N= 10,151,865.46	E= 3,106,942.65
L209	N72°07'35.32"E	66.48'	STA. 20+69.48	N= 10,152,005.44	E= 3,107,380.71
L210	N74°30'44.72"E	73.80'	STA. 21+79.18	N= 10,152,042.53	E= 3,107,483.76
L211	N72°07'35.32"E	88.68'	STA. 22+82.16	N= 10,152,070.61	E= 3,107,582.82
L215	N72°07'02.32"E	159.76'	STA. 24+86.84	N= 10,152,130.44	E= 3,107,778.08
L216	N68°55'24.32"E	144.09'	STA. 27+59.40	N= 10,152,217.11	E= 3,108,036.45
L220	N88°57'07.65"E	11.42'	STA. 29+39.84	N= 10,152,275.86	E= 3,108,206.40
L221	N70°07'02.67"E	45.02'	STA. 30+38.42	N= 10,152,313.92	E= 3,108,294.34
L222	N76°52'07.14"E	57.39'	STA. 32+56.40	N= 10,152,375.06	E= 3,108,494.65

8-4-17

STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER

Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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PROJECT CONTROL DATA
SHEET 3

SHEET 7 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				7

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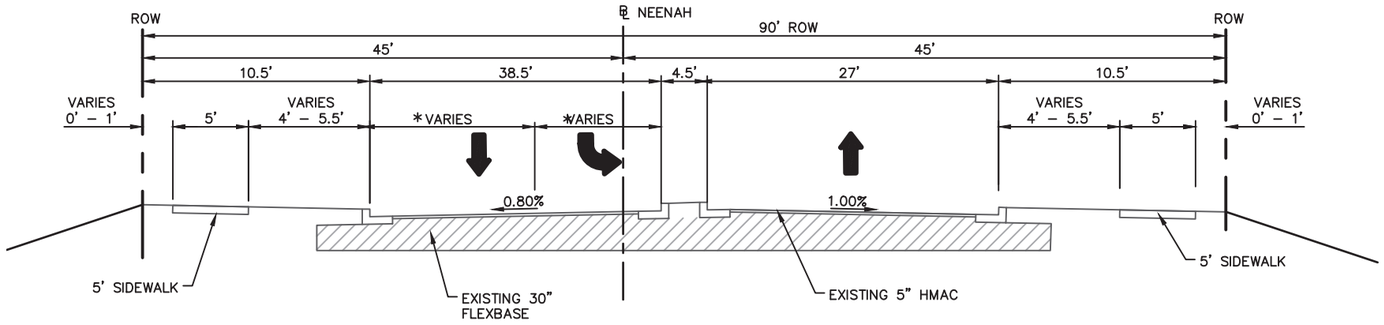
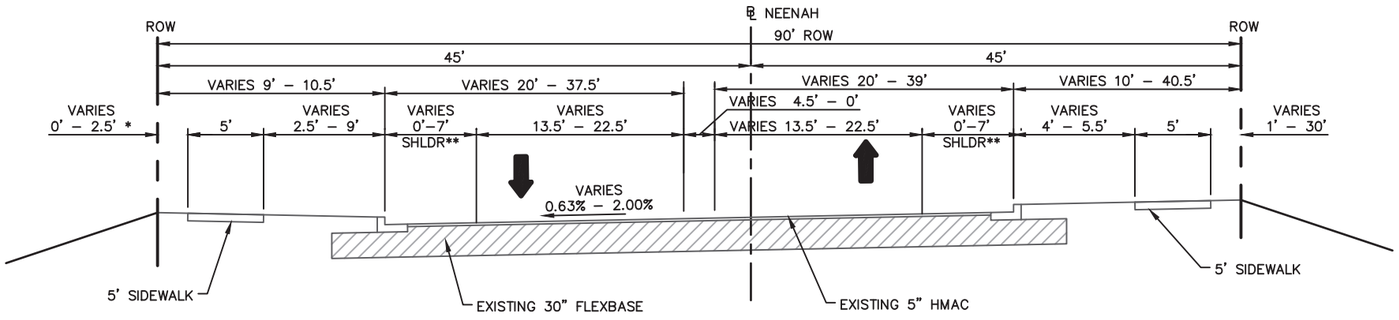


*NO PAVEMENT MARKINGS ARE PRESENT IN THE FIELD FOR THE DEDICATED LEFT TURN LANE.

NEENAH AVENUE
STA. 5+75.16 TO STA. 6+76.40
EXISTING TYPICAL SECTION
N.T.S.



* SIDEWALK MEANDERS OUTSIDE OF ROW IN SOME AREAS
** SHOULDER BEGINS AT STA 9+08.21 AND TRANSITIONS TO 7' WIDTH AT STA 11+00

NEENAH AVENUE
STA. 6+76.40 TO STA. 12+32.69
EXISTING TYPICAL SECTION
N.T.S.

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
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Stephanie D Blew

NEENAH AVENUE WIDENING

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EXISTING TYPICAL SECTIONS
NEENAH AVE.

SHEET 8 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				8

SP-2016-0186D

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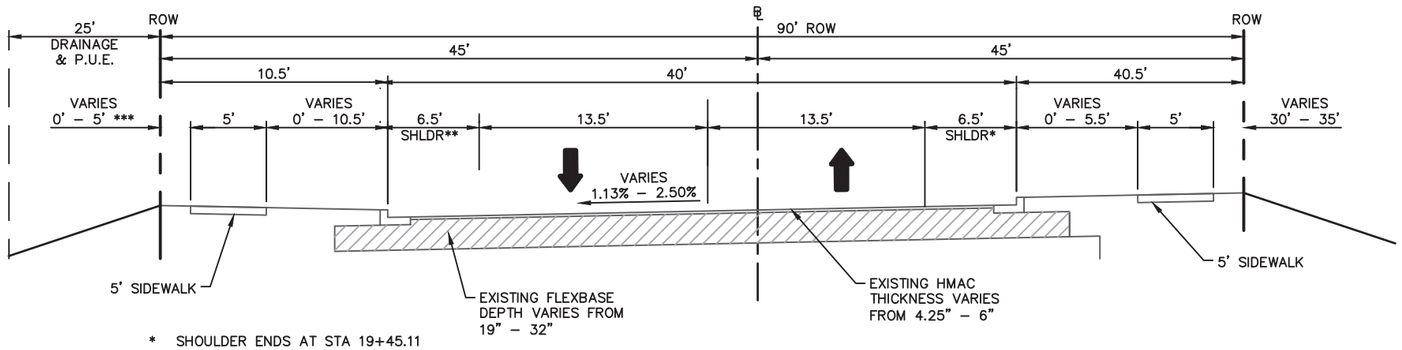
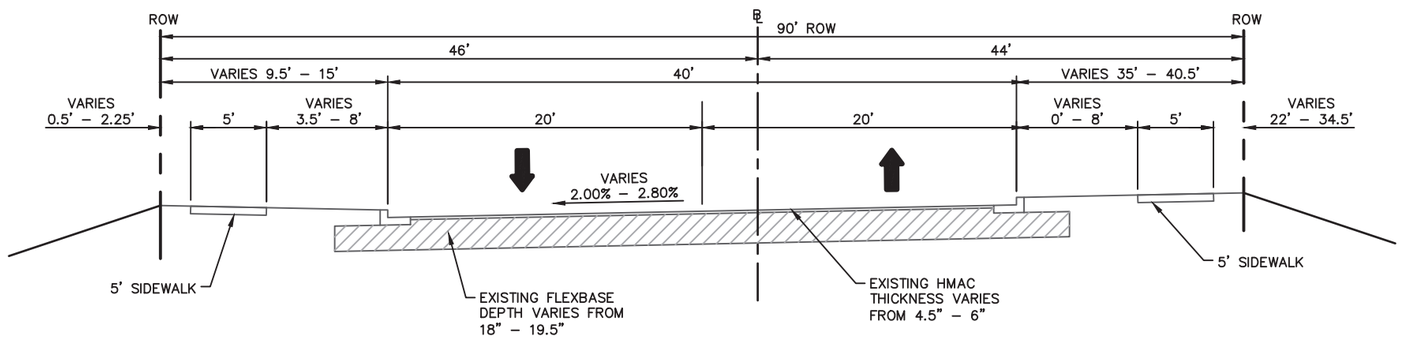


* SHOULDER ENDS AT STA 19+45.11
** SHOULDER ENDS AT STA 20+38.22
*** SIDEWALK MEANDERS OUTSIDE OF ROW IN SOME AREAS

NEENAH AVENUE
STA. 12+32.69 TO STA. 27+37.01
EXISTING TYPICAL SECTION
N.T.S.



NEENAH AVENUE
STA. 27+37.01 TO STA. 28+80.35
EXISTING TYPICAL SECTION
N.T.S.

8.4.17
STATE OF TEXAS
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WILLIAMSON COUNTY
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EXISTING TYPICAL SECTIONS
NEENAH AVE.

SHEET 9 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				9

SP-2016-0186D

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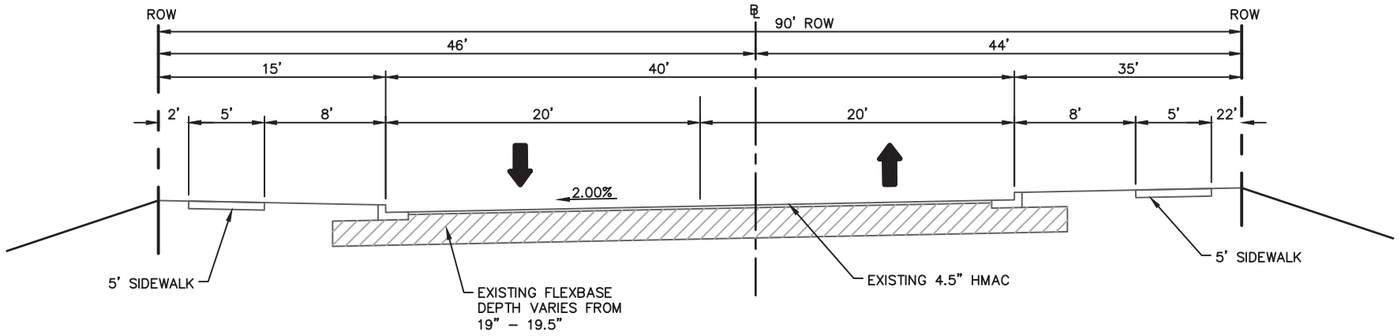
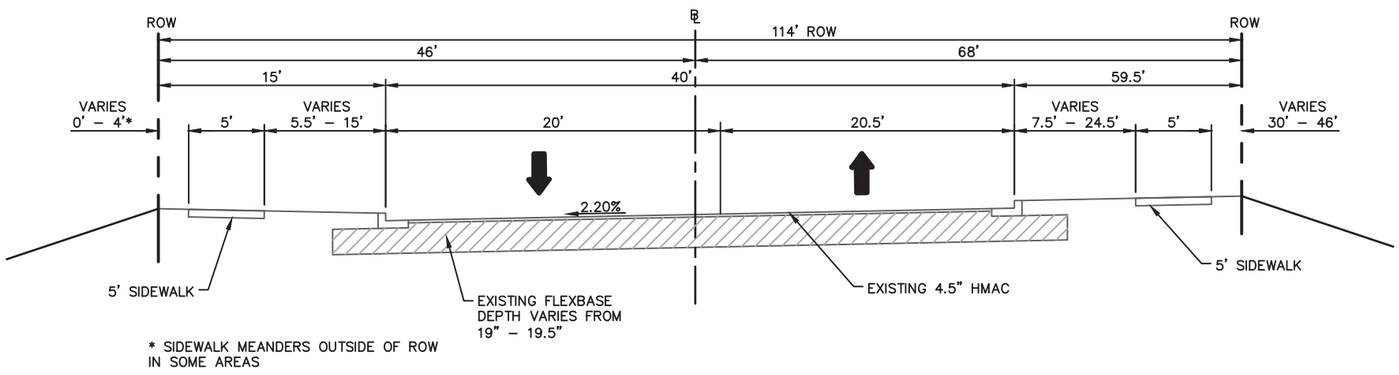


NEENAH AVENUE
STA. 28+80.35 TO STA. 29+88.07
EXISTING TYPICAL SECTION
N.T.S.



* SIDEWALK MEANDERS OUTSIDE OF ROW IN SOME AREAS

NEENAH AVENUE
STA. 29+88.07 TO STA. 35+25.47
EXISTING TYPICAL SECTION
N.T.S.

8.4.17
STATE OF TEXAS
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EXISTING TYPICAL SECTIONS
NEENAH AVE.

SHEET 10 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				10

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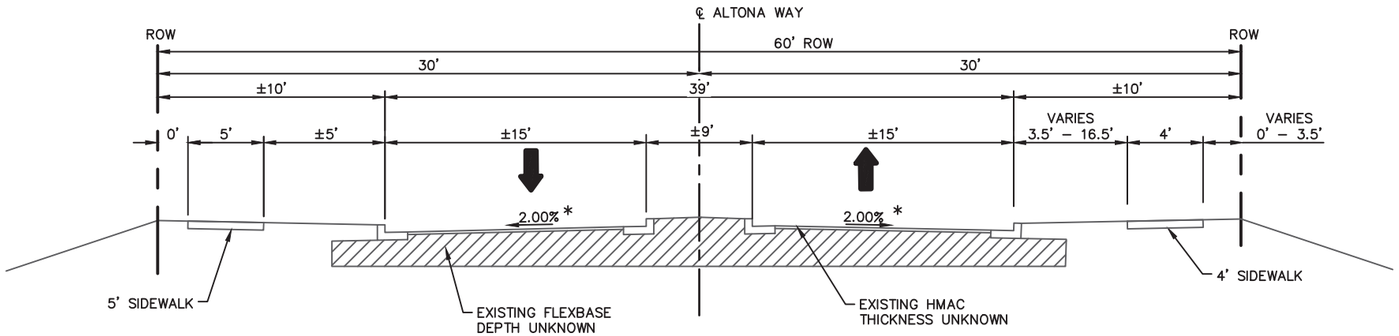
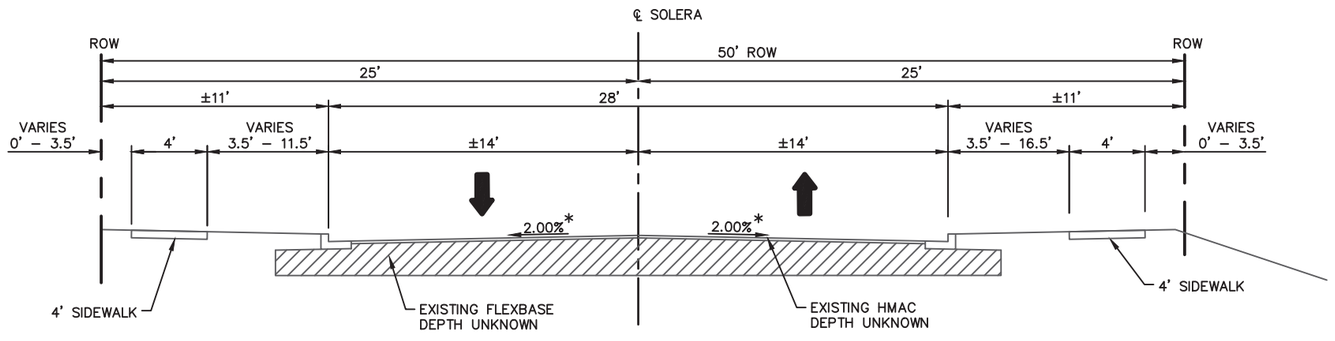


* CROSS SLOPE VARIES

ALTONA WAY
STA. 10+41.13 TO STA. 10+75
EXISTING TYPICAL SECTION
N.T.S.



* CROSS SLOPE VARIES

SOLERA DRIVE
STA. 10+00.00 TO STA. 11+00.00
EXISTING TYPICAL SECTION
N.T.S.

8.4.17
STATE OF TEXAS
STEPHANE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
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EXISTING TYPICAL SECTIONS
ALTONA WAY AND SOLERA DR.

SHEET 11 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				11

SP-2016-0186D

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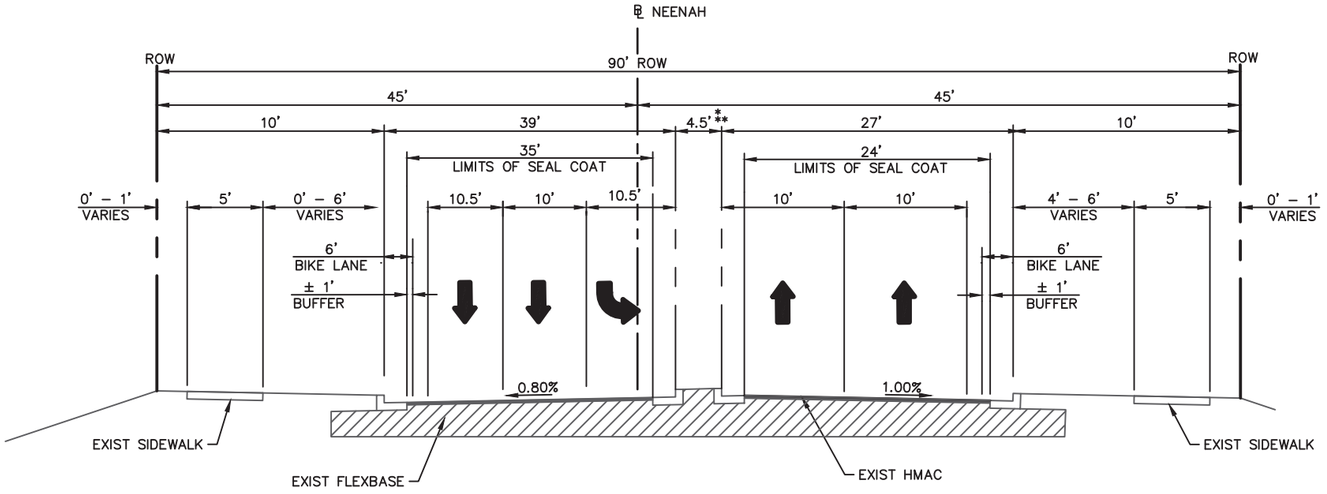
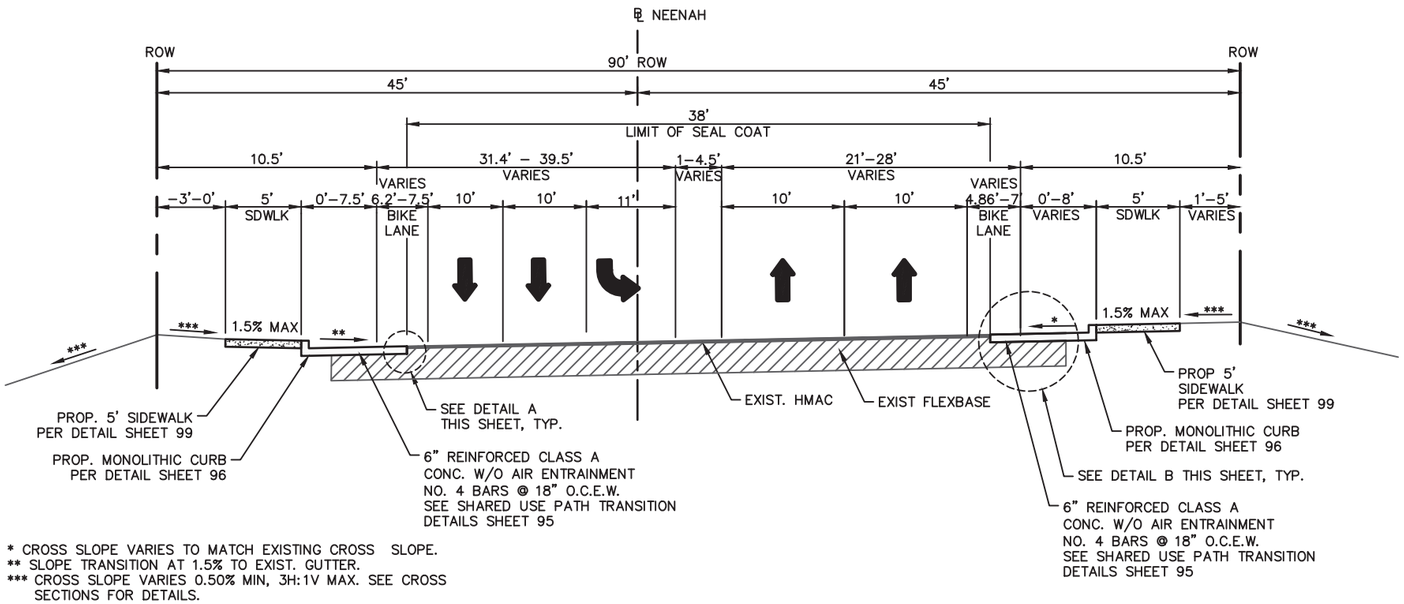


NOTE:
1. ONLY SEAL COAT, AND PAVEMENT MARKINGS ARE PROPOSED IN THIS STATION RANGE.

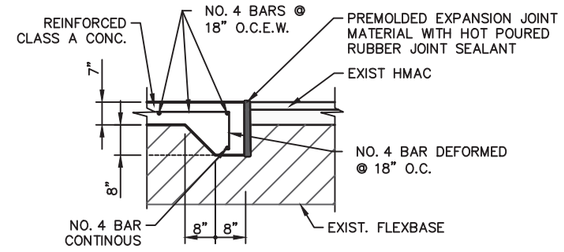
* STA 6+76.40 END RAISED MEDIAN.
** STA 6+76.40–STA 6+86.53 GORE VARIES FROM 4.5'–0.8'.

NEENAH AVENUE
STA. 5+76.89 TO STA. 6+86.53
PROPOSED TYPICAL SECTION
N.T.S.

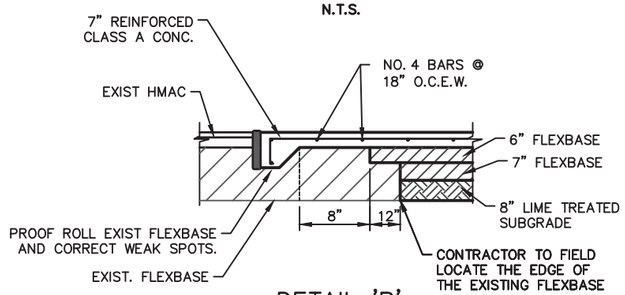


* CROSS SLOPE VARIES TO MATCH EXISTING CROSS SLOPE.
** SLOPE TRANSITION AT 1.5% TO EXIST. GUTTER.
*** CROSS SLOPE VARIES 0.50% MIN, 3H:1V MAX. SEE CROSS SECTIONS FOR DETAILS.

NEENAH AVENUE
STA. 6+86.53 TO STA. 8+19.04
PROPOSED TYPICAL SECTION
N.T.S.



DETAIL 'A'
N.T.S.



DETAIL 'B'
N.T.S.

NOTES:
1. REFER TO GEOTECHNICAL ENGINEERING REPORT, NEENAH AVENUE WIDENING FROM OLIVE HILL ROAD TO END OF EXISTING NEENAH AVE. PREPARED BY TERRACON CONSULTANTS, INC. ON AUGUST 10, 2015 FOR TESTING REQUIREMENTS TO DETERMINE ACTUAL LIME CONTENT FOR THE LIME TREATED SUBGRADE. FOR BIDDING PURPOSES CONTRACTOR SHALL ASSUME 7% LIME BY DRY WEIGHT.
2. SEE DETAILS A & B FOR PROPOSED PAVEMENT SECTION INFORMATION AND CONNECTION TO THE EXISTING EDGE OF PAVEMENT.
3. ONCE FIRST LIFT OF FLEXBASE IS PLACED PROOF ROLL ALL EXPOSED FLEXBASE PRIOR TO PLACEMENT OF SECOND LIFT.
4. CONTRACTOR SHAL PLACE TACK COAT BETWEEN LIFTS OF HMAC, AND BETWEEN EXISTING AND PROPOSED LAYERS OF HMAC.
5. CONTRACTOR SHALL SEAL COAT FULL WIDTH (LIP OF GUTTER TO LIP OF GUTTER) OF NEENAH AVE. FROM STA 3+44.23 TO STA 35+25.47.
6. SHARED USE PATH MEANDERS OUTSIDE OF ROW ALONG THE NORTH SIDE OF THE PROJECT.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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PROPOSED TYPICAL SECTIONS
NEENAH AVE

SHEET 12 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				12

SP-2016-0186D

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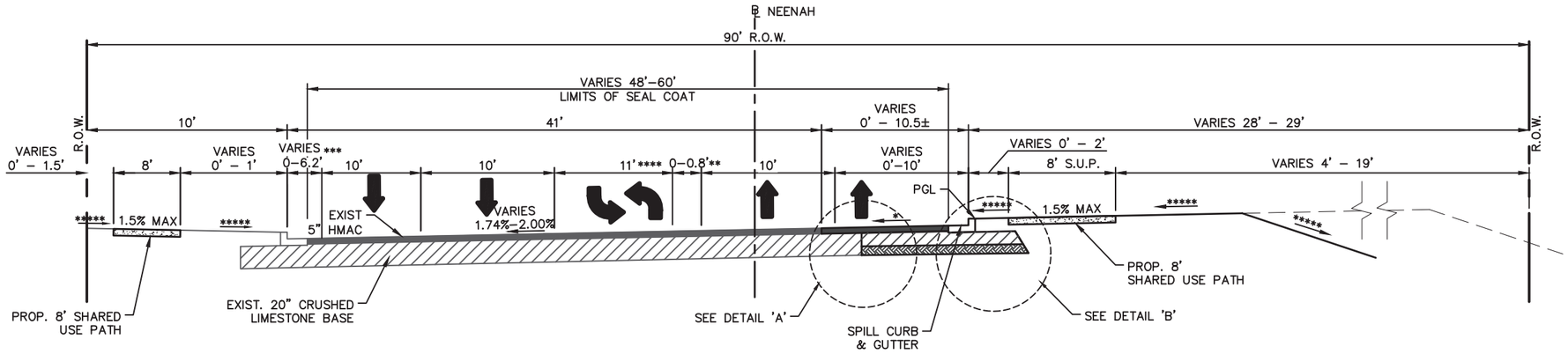
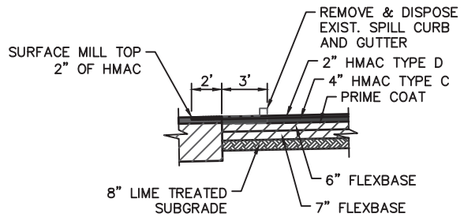
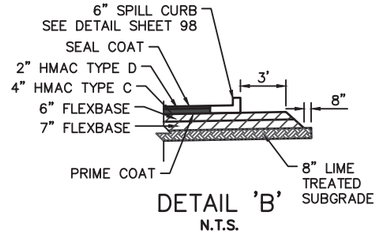


NEENAH AVENUE WIDENING
STA. 8+19.04 TO STA. 10+04.97
PROPOSED TYPICAL SECTION
N.T.S.

* CROSS SLOPE VARIES TO MATCH EXISTING CROSS SLOPE.
** STA 8+76.22 END GORE CENTER
*** STA 9+46.20 END GORE LEFT
**** STA 8+27.83 END DEDICATED LEFT TURN LANE, BEGIN TWO WAY LEFT TURN LANE.
***** CROSS SLOPE VARIES, 0.50% MIN., 3H:1V MAX. SEE CROSS SECTIONS FOR DETAILS. THE FIRST TWO FEET ADJACENT TO THE SHARED USE PATH SHOULD NOT EXCEED 6H:1V.

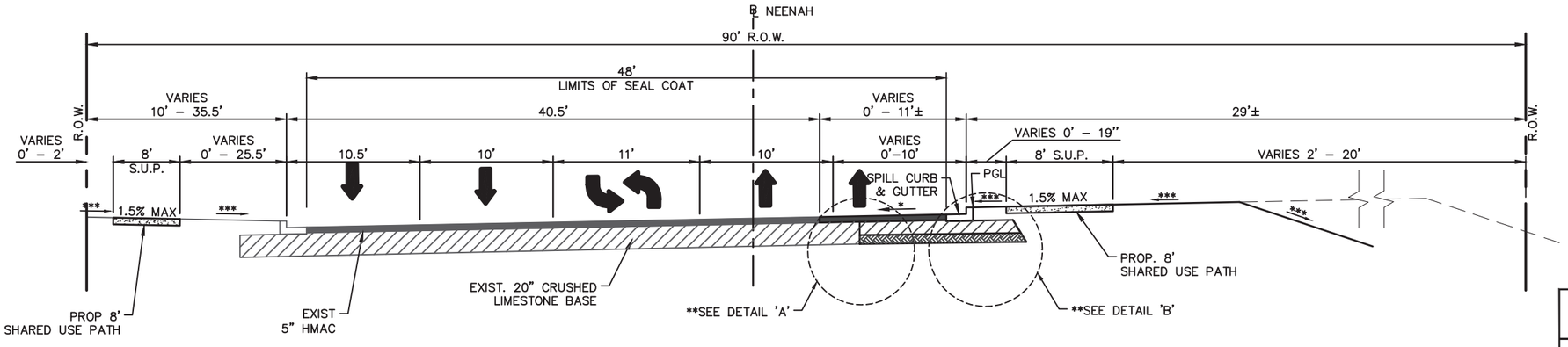


DETAIL 'A'
N.T.S.



DETAIL 'B'
N.T.S.

NOTES:
1. REFER TO GEOTECHNICAL ENGINEERING REPORT, NEENAH AVENUE WIDENING FROM OLIVE HILL ROAD TO END OF EXISTING NEENAH AVE. PREPARED BY TERRACON CONSULTANTS, INC. ON AUGUST 10, 2015 FOR TESTING REQUIREMENTS TO DETERMINE ACTUAL LIME CONTENT FOR THE LIME TREATED SUBGRADE. FOR BIDDING PURPOSES CONTRACTOR SHALL ASSUME 7% LIME BY DRY WEIGHT.
2. SEE DETAILS A & B FOR PROPOSED PAVEMENT SECTION INFORMATION AND CONNECTION TO THE EXISTING EDGE OF PAVEMENT.
3. ONCE FIRST LIFT OF FLEXBASE IS PLACED PROOF ROLL ALL EXPOSED FLEXBASE PRIOR TO PLACEMENT OF SECOND LIFT.
4. CONTRACTOR SHAL PLACE TACK COAT BETWEEN LIFTS OF HMAC, AND BETWEEN EXISTING AND PROPOSED LAYERS OF HMAC.
5. CONTRACTOR SHALL SEAL COAT FULL WIDTH (LIP OF GUTTER TO LIP OF GUTTER) OF NEENAH AVE. FROM STA 3+44.23 TO STA 35+25.47.
6. SHARED USE PATH MEANDERS OUTSIDE OF ROW ALONG THE NORTH SIDE OF THE PROJECT.



NEENAH AVENUE WIDENING
STA. 10+04.97 TO STA. 24+98.75
PROPOSED TYPICAL SECTION
N.T.S.

* CROSS SLOPE VARIES TO MATCH EXISTING CROSS SLOPE.
** STA. 17+03.97 TO STA. 17+92.28 (ALTONA WAY INTERSECTION) AND STA. 20+34.52 TO STA. 21+12.92 (SOLERA DR. INTERSECTION) CONTRACTOR SHALL PLACE BLACK BASE IN LIEU OF FLEX BASE.
*** CROSS SLOPE VARIES, 0.50% MIN., 3H:1V MAX. SEE CROSS SECTIONS FOR DETAILS. THE FIRST TWO FEET ADJACENT TO THE SHARED USE PATH SHOULD NOT EXCEED 6H:1V.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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PROPOSED TYPICAL SECTIONS
NEENAH AVE.

SHEET 13 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				13

SP-2016-0186D

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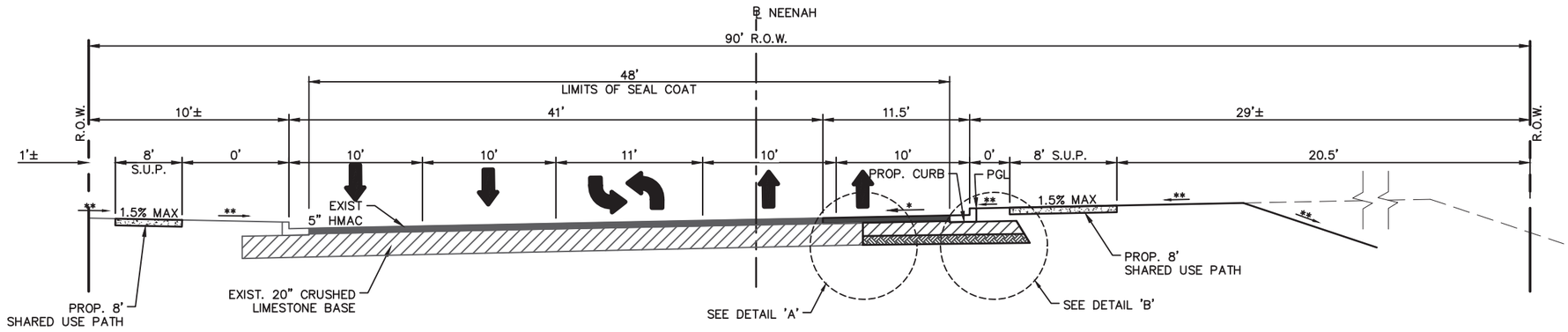
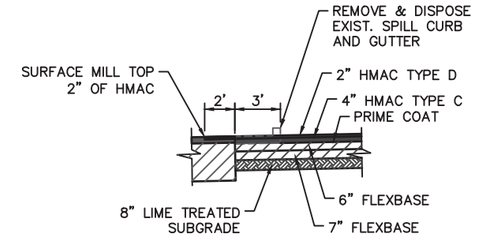
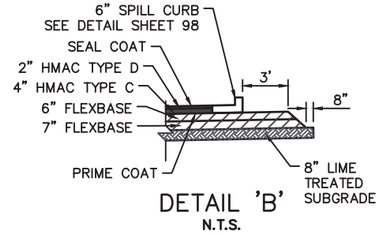


* CROSS SLOPE VARIES TO MATCH EXISTING CROSS SLOPE.
** CROSS SLOPE VARIES, 0.50% MIN., 3H:1V MAX. SEE CROSS SECTIONS FOR DETAILS. THE FIRST TWO FEET ADJACENT TO THE SHARED USE PATH SHOULD NOT EXCEED 6H:1V.

NEENAH AVENUE WIDENING
STA. 24+98.75 TO STA. 25+01.24
PROPOSED TYPICAL SECTION
N.T.S.

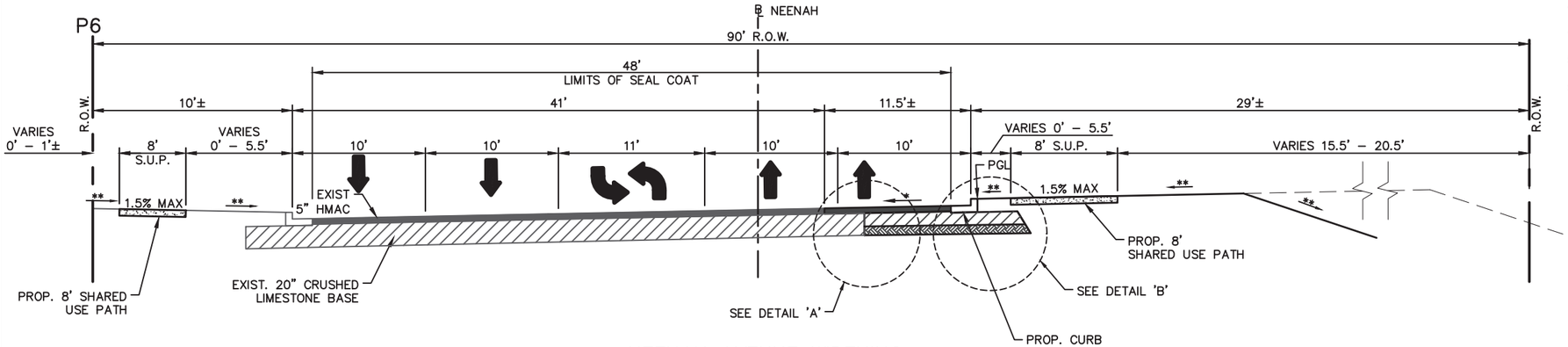


DETAIL 'A'
N.T.S.



DETAIL 'B'
N.T.S.

NOTES:
1. REFER TO GEOTECHNICAL ENGINEERING REPORT, NEENAH AVENUE WIDENING FROM OLIVE HILL ROAD TO END OF EXISTING NEENAH AVE. PREPARED BY TERRACON CONSULTANTS, INC. ON AUGUST 10, 2015 FOR TESTING REQUIREMENTS TO DETERMINE ACTUAL LIME CONTENT FOR THE LIME TREATED SUBGRADE. FOR BIDDING PURPOSES CONTRACTOR SHALL ASSUME 7% LIME BY DRY WEIGHT.
2. SEE DETAILS A & B FOR PROPOSED PAVEMENT SECTION INFORMATION AND CONNECTION TO THE EXISTING EDGE OF PAVEMENT.
3. ONCE FIRST LIFT OF FLEXBASE IS PLACED PROOF ROLL ALL EXPOSED FLEXBASE PRIOR TO PLACEMENT OF SECOND LIFT.
4. CONTRACTOR SHAL PLACE TACK COAT BETWEEN LIFTS OF HMAC, AND BETWEEN EXISTING AND PROPOSED LAYERS OF HMAC.
5. CONTRACTOR SHALL SEAL COAT FULL WIDTH (LIP OF GUTTER TO LIP OF GUTTER) OF NEENAH AVE. FROM STA 3+44.23 TO STA 35+25.47.
6. SHARED USE PATH MEANDERS OUTSIDE OF ROW ALONG THE NORTH SIDE OF THE PROJECT.



* CROSS SLOPE VARIES TO MATCH EXISTING CROSS SLOPE.
** CROSS SLOPE VARIES, 0.50% MIN., 3H:1V MAX. SEE CROSS SECTIONS FOR DETAILS. THE FIRST TWO FEET ADJACENT TO THE SHARED USE PATH SHOULD NOT EXCEED 6H:1V.

NEENAH AVENUE WIDENING
STA. 25+01.24 TO STA. 27+00.41
PROPOSED TYPICAL SECTION
N.T.S.

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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PROPOSED TYPICAL SECTIONS
NEENAH AVE.

SHEET 14 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				14

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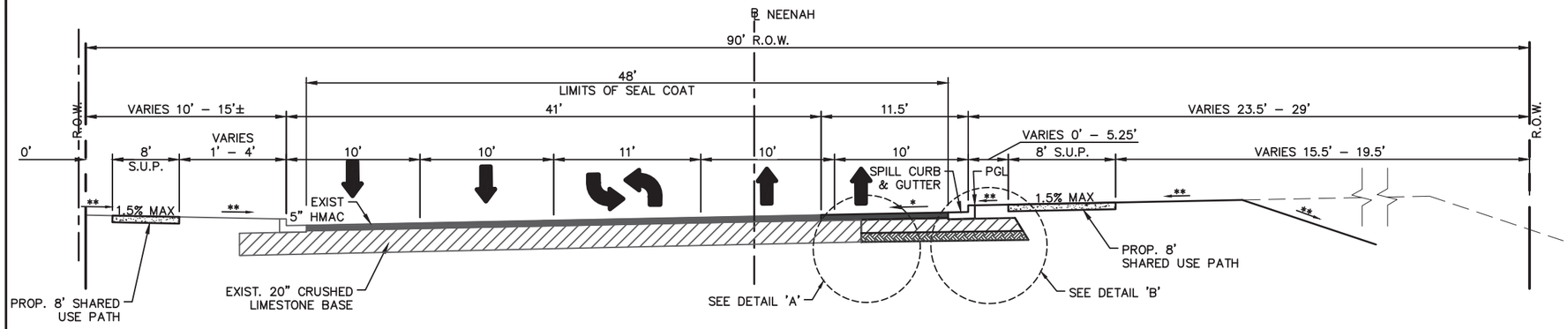
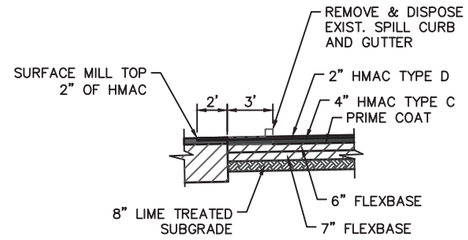
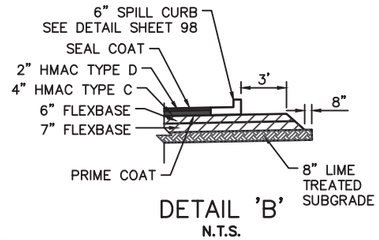


NEENAH AVENUE WIDENING
STA. 27+00.41 TO STA. 28+49.58
PROPOSED TYPICAL SECTION
N.T.S.

* CROSS SLOPE VARIES TO MATCH EXISTING CROSS SLOPE.
** CROSS SLOPE VARIES, 0.50% MIN., 3H:1V MAX. SEE CROSS SECTIONS FOR DETAILS. THE FIRST TWO FEET ADJACENT TO THE SHARED USE PATH SHOULD NOT EXCEED 6H:1V.



DETAIL 'A'
N.T.S.



DETAIL 'B'
N.T.S.

NOTES:
1. REFER TO GEOTECHNICAL ENGINEERING REPORT, NEENAH AVENUE WIDENING FROM OLIVE HILL ROAD TO END OF EXISTING NEENAH AVE. PREPARED BY TERRACON CONSULTANTS, INC. ON AUGUST 10, 2015 FOR TESTING REQUIREMENTS TO DETERMINE ACTUAL LIME CONTENT FOR THE LIME TREATED SUBGRADE. FOR BIDDING PURPOSES CONTRACTOR SHALL ASSUME 7% LIME BY DRY WEIGHT.
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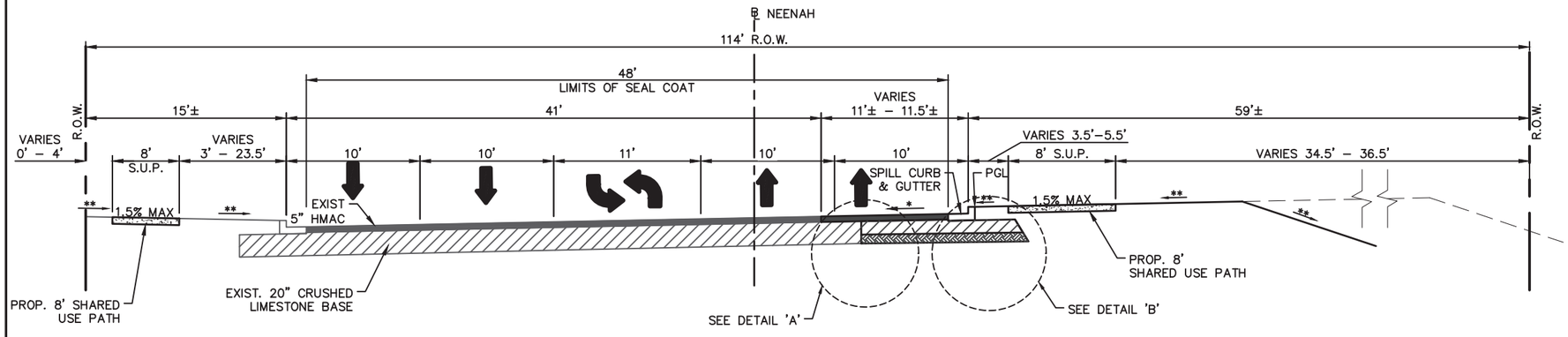
3. ONCE FIRST LIFT OF FLEXBASE IS PLACED PROOF ROLL ALL EXPOSED FLEXBASE PRIOR TO PLACEMENT OF SECOND LIFT.
4. CONTRACTOR SHAL PLACE TACK COAT BETWEEN LIFTS OF HMAC, AND BETWEEN EXISTING AND PROPOSED LAYERS OF HMAC.
5. CONTRACTOR SHALL SEAL COAT FULL WIDTH (LIP OF GUTTER TO LIP OF GUTTER) OF NEENAH AVE. FROM STA 3+44.23 TO STA 35+25.47.
6. SHARED USE PATH MEANDERS OUTSIDE OF ROW ALONG THE NORTH SIDE OF THE PROJECT.



NEENAH AVENUE WIDENING
STA. 28+49.58 TO STA. 35+25.00
PROPOSED TYPICAL SECTION
N.T.S.

* CROSS SLOPE VARIES TO MATCH EXISTING CROSS SLOPE.
** CROSS SLOPE VARIES, 0.50% MIN., 3H:1V MAX. SEE CROSS SECTIONS FOR DETAILS. THE FIRST TWO FEET ADJACENT TO THE SHARED USE PATH SHOULD NOT EXCEED 6H:1V.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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PROPOSED TYPICAL SECTIONS
NEENAH AVE.

SHEET 15 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				15

SP-2016-0186D

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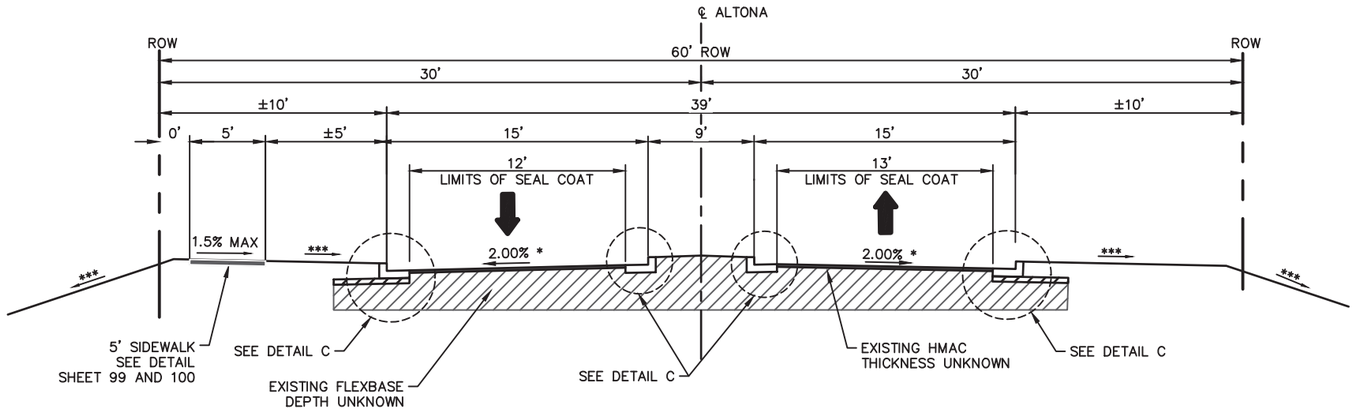
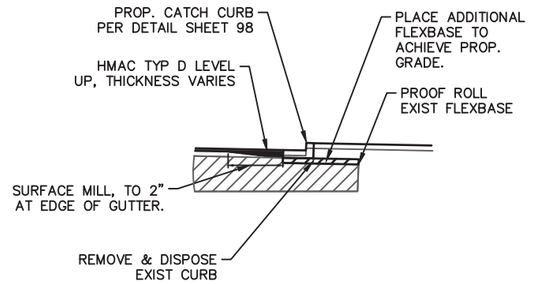


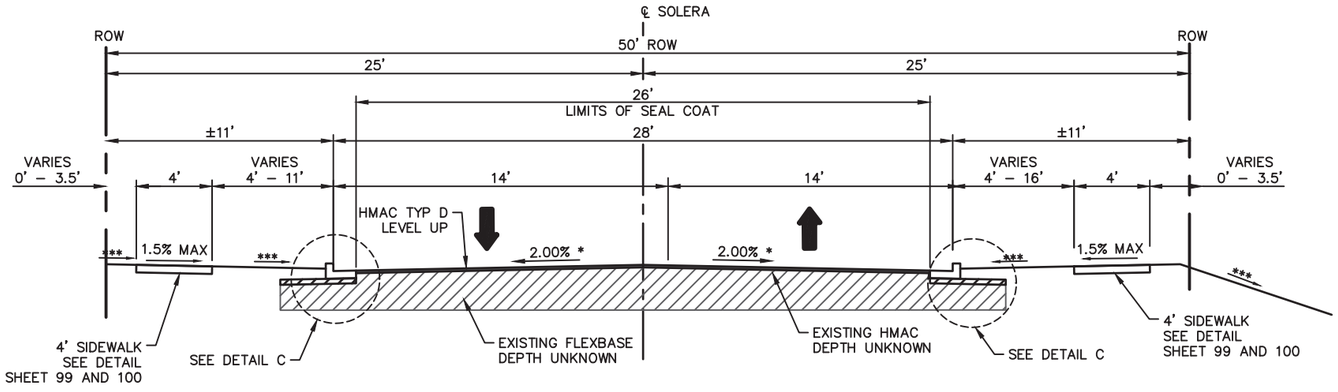
* CROSS SLOPE VARIES TO MATCH EXISTING CROSS SLOPE.
** CONTRACTOR TO MILL EXISTING HMAC AT TIE IN TO MAINTAIN A MINIMUM LIFT THICKNESS OF 1.5 INCHES.
*** CROSS SLOPE VARIES 0.50% MIN., 3H:1V MAX. SEE CROSS SECTIONS FOR DETAILS.

ALTONA WAY
STA. 10+41.13 TO STA. 10+75.00 **
PROPOSED TYPICAL SECTION
N.T.S.



DETAIL C
N.T.S.

NOTES:
1. CONTRACTOR SHALL PLACE SEAL COAT BETWEEN FLEXBASE AND HMAC.
2. CONTRACTOR SHALL PLACE TACK COAT BETWEEN LIFTS OF HMAC AND BETWEEN EXISTING AND PROPOSED LAYERS OF HMAC.
3. MEDIAN CURB & GUTTER SHALL BE SPILL TYPE. OUTSIDE CURB AND GUTTER SHALL BE CATCH TYPE.
4. REFER TO ALTONA WAY PLAN AND PROFILE (SHEET 74) AND INTERSECTION PLAN (SHEET 76) FOR ADDITIONAL DETAILS.
5. REFER TO SOLERA DR. PLAN AND PROFILE (SHEET 75) AND INTERSECTION PLAN (SHEET 77) FOR ADDITIONAL DETAILS.



* CROSS SLOPE VARIES TO MATCH EXISTING CROSS SLOPE.
** CONTRACTOR TO MILL EXISTING HMAC AT TIE IN TO MAINTAIN A MINIMUM LIFT THICKNESS OF 1.5 INCHES.
*** CROSS SLOPE VARIES 0.50% MIN., 3H:1V MAX. SEE CROSS SECTIONS FOR DETAILS.

SOLERA DR.
STA. 10+40.37 TO STA. 11+00.00 **
PROPOSED TYPICAL SECTION
N.T.S.

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
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PROPOSED TYPICAL SECTIONS
ALTONA WAY & SOLERA DR.

SHEET 16 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				16

SP-2016-0186D

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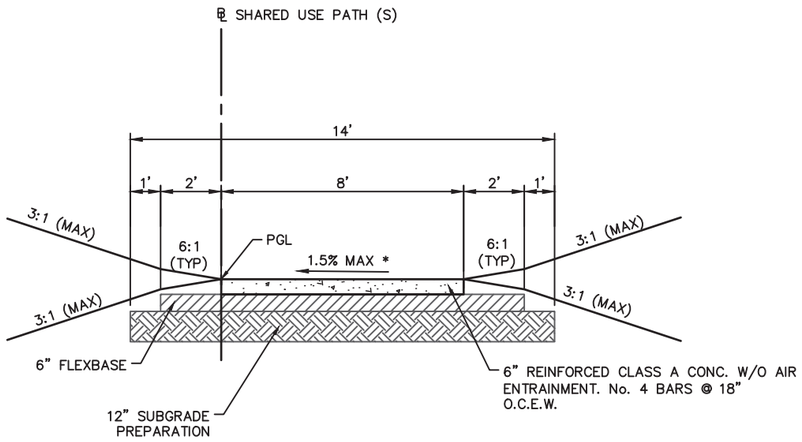
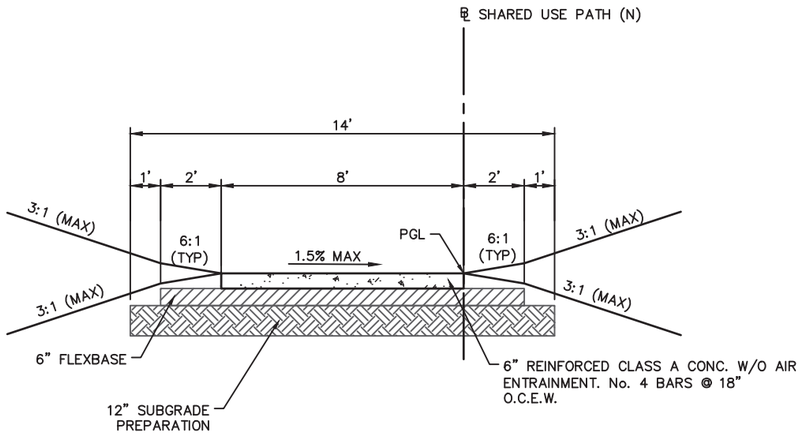


* SLOPE DIRECTION VARIES SEE SHARED USE PATH PLAN AND PROFILE SHEETS, AND CROSS SECTIONS FOR ADDITIONAL INFORMATION.

SHARED USE PATH (S)
N.T.S.

SOUTH SHARED USE PATH 1/2 CRZ AREAS:

STA 2+67.00 TO STA 3+65.00
STA 7+13.00 TO STA 7+27.00
STA 11+05.00 TO STA 11+34.00
STA 33+60.00 TO STA 33+84.00

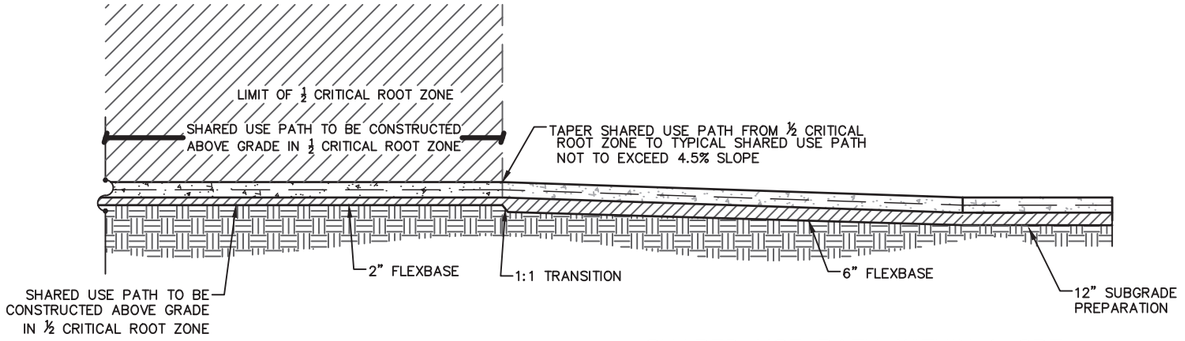


SHARED USE PATH (N)
N.T.S.

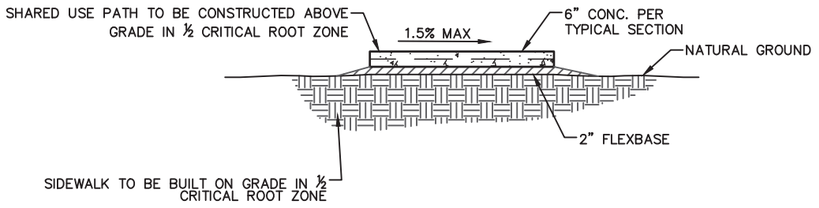
NORTH SHARED USE PATH 1/2 CRZ AREAS:

STA 20+50.00 TO STA 20+85.00
STA 22+42.48 TO STA 22+55.50
STA 23+50.00 TO STA 23+60.00
STA 24+50.00 TO STA 25+00.00

NOTES:
1. SHARED USE PATH MEANDERS OUTSIDE THE ROW ALONG THE NORTH SIDE OF THE PROJECT.
2. CONTROL JOINTS SHALL BE SPACED @ 15' USING PREFORMED CONTROL JOINT MATERIAL, ZIP STRIP, OR EQUIVALENT WITH HOT POURED RUBBER JOINT SEALANT.
3. WHERE SHARED USE PATH ABUTS AN EXISTING OR PROPOSED CURB, A CONTROL JOINT SHALL BE CONSTRUCTED BETWEEN THE SHARED USE PATH AND THE CURB USING PREFORMED CONTROL JOINT MATERIAL, ZIP STRIP, OR EQUIVALENT WITH HOT POURED RUBBER JOINT SEALANT.
4. REMOVAL OF EXISTING SIDEWALKS IN THE CRITICAL ROOT ZONE OF TREES TO BE PRESERVED SHALL BE ACCOMPLISHED BY LIFTING PANELS AND FLIPPING THEM TOWARD THE STREET TO AVOID DISTURBANCE OF ROOTS.



SHARED USE PATH WITHIN ½ CRZ
N.T.S.



8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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PROPOSED TYPICAL SECTIONS SHARED USE PATH

SHEET 17 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				17

SP-2016-0186D

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LEGEND

EXISTING	PROPOSED	
		PROPERTY (ROW) LINE
(XXX)		RECORD INFORMATION
P.O.B.		POINT OF BEGINNING
		BENCHMARK
		1/2" IRON ROD FOUND (UNLESS NOTED)
		1/2" IRON ROD SET
		IRON PIPE FOUND
		NAIL FOUND
		COMPUTED POINT
		MONUMENT FOUND
		MONUMENT SET
		CUT "X"
		LIGHT POLE
		POWER POLE
		DOWN GUY
		TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT
		TELEPHONE RISER
		CABLE TV RISER
		ELECTRIC BOX
		ELECTRIC METER
		GAS METER
		GAS VALVE
		SIGN
		BOLLARD
		GRATE INLET
		CURB INLET (SIZE VARIES)
		WOOD FENCE
		STORMSEWER LINE
WW		WASTEWATER LINE
WW(P)		PRIVATE WASTEWATER LINE
UE		UNDERGROUND ELECTRIC
OE		OVERHEAD ELECTRIC
UT		UNDERGROUND TELEPHONE
G		GAS LINE
		CONDUIT
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH		TELEPHONE MANHOLE (SIZE VARIES)
CO		WASTEWATER CLEANOUT
		EASEMENT
		HANDRAIL (TX DOT PRD-13 TYPE E)

EXISTING	PROPOSED	
		CURB & GUTTER
		CONCRETE SIDEWALKS
		HANDICAP ACCESSIBLE ROUTE
	TP TP	TREE PROTECTION
	S	SILT FENCE
		LIMITS OF CONSTRUCTION
		ROCK BERM
		STABILIZED CONSTRUCTION ENTRANCE
	TFD	TRIANGULAR SEDIMENT FILTER DIKE
	RFD3	ROCK FILTER DAM TYPE 3
		DITCH FLOW ARROW
		DIRECTION OF FLOW
678	678	CONTOUR
1170		TREE TO REMAIN
1111		TREE TO BE REMOVED
		TREE WELL
		METAL BEAM GUARD FENCE W/ CONC. MOW STRIP
		HANDRAIL
		GRAVEL ACCESS ROAD
		HMAC PAVEMENT
		HMAC LEVEL UP
		CONCRETE PAVEMENT
		NATIVE VEGETATION
		IRRIGATION SLEEVES

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
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NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
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Tel. (512) 328-0011 Fax (512) 328-0325
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LEGEND

SHEET 18 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				18

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TCEQ–0592 (REV. 3/15/07)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER POLLUTION ABATEMENT PLAN
GENERAL CONSTRUCTION NOTES

1. WRITTEN CONSTRUCTION NOTIFICATION MUST BE GIVEN TO THE APPROPRIATE TCEQ REGIONAL OFFICE NO LATER THAN 48 HOURS PRIOR TO COMMENCEMENT OF THE REGULATED ACTIVITY. INFORMATION MUST INCLUDE THE DATE ON WHICH THE REGULATED ACTIVITY WILL COMMENCE, THE NAME OF THE APPROVED PLAN FOR THE REGULATED ACTIVITY, AND THE NAME OF THE PRIME CONTRACTOR AND THE NAME AND TELEPHONE NUMBER OF THE CONTACT PERSON.

2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON–SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.

3. IF ANY SENSITIVE FEATURE IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.

4. NO TEMPORARY ABOVEGROUND HYDROCARBON AND HAZARDOUS SUBSTANCE STORAGE TANK SYSTEM IS INSTALLED WITHIN 150 FEET OF A DOMESTIC, INDUSTRIAL, IRRIGATION, OR PUBLIC WATER SUPPLY WELL, OR OTHER SENSITIVE FEATURE.

5. PRIOR TO COMMENCEMENT OF CONSTRUCTION, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. CONTROLS SPECIFIED IN THE TEMPORARY STORM WATER SECTION OF THE APPROVED EDWARDS AQUIFER PROTECTION PLAN ARE REQUIRED DURING CONSTRUCTION. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THE CONTROLS MUST REMAIN IN PLACE UNTIL DISTURBED AREAS ARE REVEGETATED AND THE AREAS HAVE BECOME PERMANENTLY STABILIZED.

6. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF–SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS TO WATER QUALITY (E.G., FUGITIVE SEDIMENT IN STREET BEING WASHED INTO SURFACE STREAMS OR SENSITIVE FEATURES BY THE NEXT RAIN).

7. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS NOT LATER THAN WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%. A PERMANENT STAKE MUST BE PROVIDED THAT CAN INDICATE WHEN THE SEDIMENT OCCUPIES 50% OF THE BASIN VOLUME.

8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES (E.G., SCREENING OUTFALLS, PICKED UP DAILY).

9. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON–SITE WITH PROPER E&S CONTROLS. FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE, THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.

10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARY OR PERMANENTLY CEASE IS PRECLUDED BY WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE. IN AREAS EXPERIENCING DROUGHTS WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SEASONAL ARID CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

12. THE HOLDER OF ANY APPROVED EDWARD AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:

   A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT LIMITED TO PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES;

   B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER.

   C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.

AUSTIN REGIONAL OFFICE
2800 S. IH 35, SUITE 100
AUSTIN, TEXAS 78704–5712
PHONE (512) 339–2929
FAX (512) 339–3795

SAN ANTONIO REGIONAL OFFICE
14250 JUDSON ROAD
SAN ANTONIO, TEXAS 78233–4480
PHONE (210) 490–3096
FAX (210) 545–4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

GENERAL CONSTRUCTION NOTES

1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

2. CONTRACTOR SHALL CALL THE ONE CALL CENTER (1–800–344–8377) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.

3. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION OF THE CITY'S ONE STOP SHOP (OSS) AT (512–974–6360) OR (512–974–7034) AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET R.O.W. THE METHOD OF PLACEMENT AND COMPACTION OF BACKFILL IN THE CITY'S R.O.W. MUST BE APPROVED PRIOR TO THE START OF BACKFILL OPERATIONS.

4. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

5. ALL SITE WORK MUST ALSO COMPLY WITH ENVIRONMENTAL REQUIREMENTS.

6. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO THE FOLLOWING, THE ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE, FILTRATION AND DETENTION FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS.:

– RELEASE OF THE CERTIFICATE OF OCCUPANCY BY THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT (INSIDE THE CITY LIMITS); OR

– INSTALLATION OF AN ELECTRIC OR WATER METER (IN THE FIVE–MILE ETJ),

AMERICANS WITH DISABILITIES ACT

1. THE CITY OF AUSTIN HAS REVIEWED THIS PLAN FOR COMPLIANCE WITH CITY DEVELOPMENT REGULATIONS ONLY. THE APPLICANT, PROPERTY OWNER, AND OCCUPANT OF THE PREMISES ARE RESPONSIBLE FOR DETERMINING WHETHER THE PLAN COMPLIES WITH ALL OTHER LAWS, REGULATIONS, AND RESTRICTIONS WHICH MAY BE APPLICABLE TO THE PROPERTY AND ITS USE.

CITY OF AUSTIN ELECTRIC UTILITY NOTES

1. AUSTIN ENERGY HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES, SHRUBBERY, AND OTHER OBSTRUCTIONS TO THE EXTENT NECESSARY TO KEEP THE EASEMENTS CLEAR. AUSTIN ENERGY WILL PERFORM ALL TREE WORK IN COMPLIANCE WITH CHAPTER 25–8, SUBCHAPTER B OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.

2. THE OWNER/DEVELOPER OF THIS SUBDIVISION/LOT SHALL PROVIDE AUSTIN ENERGY WITH ANY EASEMENT AND/OR ACCESS REQUIRED, IN ADDITION TO THOSE INDICATED, FOR THE INSTALLATION AND ONGOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES. THESE EASEMENTS AND/OR ACCESS ARE REQUIRED TO PROVIDE ELECTRIC SERVICE TO THE TO THE BUILDING(S) AND WILL NOT BE LOCATED SO AS TO CAUSE THE SITE TO BE OUT OF COMPLIANCE WITH CHAPTER 25–8 OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.

3. THE OWNER SHALL BE RESPONSIBLE FOR ANY INSTALLATION OF TEMPORARY EROSION CONTROL, REVEGETATION, AND TREE PROTECTION. IN ADDITION, THE OWNER SHALL BE RESPONSIBLE FOR ANY TREE PRUNING AND TREE REMOVAL THAT IS WITHIN TEN FEET OF THE CENTERLINE OF THE OVERHEAD ELECTRICAL FACILITIES DESIGNED TO PROVIDE ELECTRIC SERVICE TO THIS PROJECT. THE OWNER SHALL INCLUDE AUSTIN ENERGY'S WORK WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.

4. THE OWNER OF THE PROPERTY IS RESPONSIBLE FOR MAINTAINING CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, CITY OF AUSTIN RULES AND REGULATIONS AND TEXAS STATE LAWS PERTAINING TO CLEARANCES WHEN WORKING IN CLOSE PROXIMITY TO OVERHEAD POWER LINES AND EQUIPMENT. AUSTIN ENERGY WILL NOT RENDER ELECTRIC SERVICE UNLESS REQUIRED CLEARANCES ARE MAINTAINED. ALL COSTS INCURRED BECAUSE OF FAILURE TO COMPLY WITH THE REQUIRED CLEARANCES WILL BE CHARGED TO THE OWNER.

5. A PRE–CONSTRUCTION SAFELY MEETING IS REQUIRED WITH AUSTIN ENERGY 48 HOURS BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO WILL RESULT IN THE PROJECT BEING SHUT DOWN. CALL DOUG WEISE AT 512–505–7023 TO SCHEDULE A TRAIL GATE SAFETY MEETING. INCLUDE CHUCK HENDRY (512–505–7151) IN THE MEETING, IF CRANES ARE BEING USED DURING CONSTRUCTION.

6. BARRICADES MUST BE ERECTED 10 FEET FROM ELECTRIC TRANSMISSION STRUCTURES DURING CONSTRUCTION. ANY RELOCATION OF ELECTRIC TRANSMISSION FACILITIES OR OUTAGES CAUSED BY THIS PROJECT WILL BE CHARGED TO THE PROPERTY OWNER AND CONTRACTOR.

7. WARNING SIGNS MUST BE PLACED UNDER THE OVERHEAD ELECTRIC TRANSMISSION FACILITIES AS NOTIFICATION OF THE ELECTRICAL HAZARD.

8. FOR SAFETY REASONS, AERIAL EQUIPMENT, DUMPSTERS, STAGING OR SPOILS AREAS ARE RESTRICTED TO A MAXIMUM HEIGHT OF 20 FEET IN AND AROUND THE TRANSMISSION WIRE AND STRUCTURES.

9. PRIOR TO MOBILIZING TALL EQUIPMENT SUCH AS CRANES, CALL DOUG WEISE AT 512–505–7023 TO COORDINATE WITH TRANSMISSION PERSONNEL.

10. 24 HOUR ACCESS TO ELECTRIC FACILITIES SHALL BE MAINTAINED.

11. ANY TEMPORARY OR PERMANENT SECURITY FENCE PREVENTING ACCESS TO THE EASEMENT SHALL BE COORDINATED WITH AUSTIN ENERGY STAFF. AE STAFF SHALL INSTALL A LOCK ON THE GATE/FENCE FOR ACCESS.

12. PROPERTY OWNER AND CONTRACTOR ARE RESPONSIBLE FOR DUST CONTROLS TO MINIMIZE CONTAMINATION OF WIRE AND INSULATORS CAUSED BY DUST FROM THIS PROJECT. ANY SUBSEQUENT CLEANING OR ELECTRICAL OUTAGES CAUSED BY DUST FROM THIS PROJECT WILL BE CHARGED TO THE PROPERTY OWNER AND CONTRACTOR.

13. FIRE HYDRANTS ARE PROHIBITED WITHIN 20 FEET OF TRANSMISSION POLES.

14. SPRINKLERS ARE PROHIBITED WITHIN 15 FEET OF TRANSMISSION POLES.

SITE SUMMARY*

CURRENT ZONING:	RIGHT–OF–WAY DRAINAGE & PUBLIC UTILITY EASEMENT
TOTAL SITE AREA (LOC):	9.95 ACRES
IMPERVIOUS COVER (EXISTING):	4.76 ACRES (47.9%)
IMPERVIOUS COVER (INCREASE):	0.90 ACRES (9.0%)
IMPERVIOUS COVER (PROPOSED):	5.66 ACRES (56.9%)

***SITE SUMMARY FOR ENTIRE LIMITS OF CONSTRUCTION (LOC)**

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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TBPE # F-6324 TBPLS # F-10194230
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GENERAL NOTES

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FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				19

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APPENDIX P–1: – EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE COA ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR A TPDES REQUIRED SWPPP. IF A SWPPP IS REQUIRED, IT SHALL BE AVAILABLE FOR REVIEW BY THE CITY OF AUSTIN ENVIRONMENTAL INSPECTOR AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE–CONSTRUCTION MEETING.
3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
4. A PRE–CONSTRUCTION CONFERENCE SHALL BE HELD ON–SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE OWNER OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT, 974–2278, AT LEAST THREE DAYS PRIOR TO THE MEETING DATE. COA APPROVED ESC PLAN AND TPDES SWPPP (IF REQUIRED) SHOULD BE REVIEWED BY COA EV INSPECTOR AT THIS TIME.
5. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST OR CITY ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY CITY OF AUSTIN STAFF. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
6. THE CONTRACTOR IS REQUIRED TO PROVIDE A CERTIFIED INSPECTOR WITH EITHER A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), CERTIFIED EROSION, SEDIMENT AND STORMWATER– INSPECTOR (CESSWI) OR CERTIFIED INSPECTOR OF SEDIMENTATION AND EROSION CONTROLS (CISEC) CERTIFICATION TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
8. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS; ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT A CITY OF AUSTIN ENVIRONMENTAL INSPECTOR FOR FURTHER INVESTIGATION.
9. TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.

A. ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO PLACE A MINIMUM OF SIX (6) INCHES OF TOPSOIL [SEE STANDARD SPECIFICATION ITEM NO. 601S.3(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES.

- TOPSOIL SALVAGED FROM THE EXISTING SITE IS ENCOURAGED FOR USE, BUT IT SHOULD MEET THE STANDARDS SET FORTH IN 601S.

  AN OWNER/ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE CRITERIA OF STANDARD SPECIFICATION 601S BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRONOMY INDICATING THE ONSITE TOPSOIL WILL PROVIDE AN EQUIVALENT GROWTH MEDIA AND SPECIFYING WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED.

- SOIL AMENDMENTS SHALL BE WORKED INTO THE EXISTING ONSITE TOPSOIL WITH A DISC OR TILLER CREATE

  A WELL–BLENDED MATERIAL.

THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:

TEMPORARY VEGETATIVE STABILIZATION:

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH OR INCLUDE A COOL SEASON COVER CROPS: (WESTERN WHEATGRASS (PASCOPYRUM SMITHII) AT.6 POUNDS PER ACRE, OATS (AVENA SATIVA) AT 4.0 POUNDS PER ACRE, CEREAL RYE GRAIN (SECALE CEREALE) 45 POUNDS PER ACRE. CONTRACTOR MUST ENSURE THAT ANY SEED APPLICATION REQUIRING A COOL SEASON COVER CROP DOES NOT UTILIZE ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) OR PERENNIAL RYEGRASS (LOLIUM PERENNE). COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.

APPENDIX P–1: – EROSION CONTROL NOTES

2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 5 POUNDS PER ACRE OR A NATIVE PLANT SEED MIX CONFORMING TO ITEMS 604S OR 609S.

A. FERTILIZER SHALL BE APPLIED ONLY IF WARRANTED BY A SOIL TEST AND SHALL .CONFORM TO ITEM NO. 606S, FERTILIZER. FERTILIZATION SHOULD NOT OCCUR WHEN RAINFALL IS EXPECTED OR DURING SLOW PLANT GROWTH OR DORMANCY. CHEMICAL FERTILIZER MAY NOT BE APPLIED IN THE CRITICAL WATER QUALITY ZONE.

B. HYDROMULCH SHALL COMPLY WITH TABLE1, BELOW.

C. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95% TOTAL COVERAGE SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR TEMPORARY STABILIZATION ARE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.

D. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, AND STANDARD SPECIFICATIONS 604S OR 609S.

TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION

MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES
100% OR ANY BLEND OF WOOD, CELLULOSE, STRAW, AND/OR COTTON PLANT (EXCEPT NO MULCH SHALL EXCEED 30% PAPER)	70% OR GREATER WOOD/STRAW 30% OR LESS PAPER OR NATURAL FIBERS	0–3 MONTHS	MODERATE SLOPES; FROM FLAT TO 3:1	1500 TO 2000 LBS/ACRE

PERMANENT VEGETATIVE STABILIZATION:

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE–HALF (½) INCH AND THE AREA SHALL BE RE–SEEDED IN ACCORDANCE WITH TABLE 2 BELOW. ALTERNATIVELY, THE COOL SEASON COVER CROP CAN BE MIXED WITH BERMUDAGRASS OR NATIVE SEED AND INSTALLED TOGETHER, UNDERSTANDING THAT GERMINATION OF WARM–SEASON SEED TYPICALLY REQUIRES SOIL TEMPERATURES OF 60 TO 70 DEGREES.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF –45 POUNDS PER ACRE WITH A PURITY OF 95% AND A MINIMUM PURE LIVE SEED (PLS) OF 0.83. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL. PERMANENT VEGETATIVE STABILIZATION CAN ALSO BE ACCOMPLISHED WITH A NATIVE PLANT SEED MIX CONFORMING TO ITEMS 604S OR 609S.

A. FERTILIZER USE SHALL FOLLOW THE RECOMMENDATION OF A SOIL TEST. SEE ITEM 606S, FERTILIZER. APPLICATIONS OF FERTILIZER (AND PESTICIDE) ON CITY–OWNED AND MANAGED PROPERTY REQUIRES THE YEARLY SUBMITTAL OF A PESTICIDE AND FERTILIZER APPLICATION RECORD, ALONG WITH A CURRENT COPY OF THE APPLICATOR'S LICENSE. FOR CURRENT COPY OF THE RECORD TEMPLATE CONTACT THE CITY OF AUSTIN'S IPM COORDINATOR. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.

C. WATER THE SEEDED AREAS IMMEDIATELY AFTER INSTALLATION TO ACHIEVE GERMINATION AND A HEALTHY STAND OF PLANTS THAT CAN ULTIMATELY SURVIVE WITHOUT SUPPLEMENTAL WATER. APPLY THE WATER UNIFORMLY TO THE PLANTED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS OR SOIL. MAINTAIN THE SEEDBED IN A MOIST CONDITION FAVORABLE FOR PLANT GROWTH. ALL WATERING SHALL COMPLY WITH CITY CODE CHAPTER 6–4 (WATER CONSERVATION), AT RATES AND FREQUENCIES DETERMINED BY A LICENSED IRRIGATOR OR OTHER QUALIFIED PROFESSIONAL, AND AS ALLOWED BY THE AUSTIN WATER UTILITY AND CURRENT WATER RESTRICTIONS AND WATER CONSERVATION INITIATIVES.

D. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95 PERCENT FOR THE NON–NATIVE MIX, AND 95 PERCENT COVERAGE FOR THE NATIVE MIX SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR STABILITY MUST BE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 16 SQUARE FEET.

E. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, ITEMS # 604S AND 609S.

TABLE 2: HYDROMULCHING FOR PERMANENT VEGETATIVE STABILIZATION

MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES
BONDED FIBER MATRIX (BFM)	80% ORGANIC DEFIBRATED FIBERS 10%TACKIFIER	6 MONTHS	ON SLOPES UP TO 2:1 AND EROSIVE SOIL CONDITIONS	2500 TO 4000 LBS/ACRE
FIBER REINFORCED MATRIX (FRM)	65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIBERS OR LESS 10% TACKIFIER	UP TO 12 MONTHS	ON SLOPES UP TO 1:1 AND EROSIVE SOIL CONDITIONS	3000 TO 4500 LBS/ACRE

10. PROJECT CONTACT INFORMATION:

    FOR QUESTIONS & PLAN REVISIONS
    CONTACT WILLIAMSON COUNTY GEC
    HNTB @ 512–744–9082

11. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT AT 974–2278 AT LEAST 48 HOURS PRIOR WITH THE LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.

SPECIAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN BARRICADES, WARNING SIGNS, FLASHERS AND OTHER DEVICES OF THE TYPE AND SIZE AS INDICATED IN THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE DUST–FREE LANE FOR TRAFFIC WITH FLAGMEN DURING CONSTRUCTION ACTIVITIES AND TWO LANES AT ALL OTHER TIMES.
3. THE ESTIMATED QUANTITY FOR ITEM NO. 110, STREET EXCAVATION, WAS CALCULATED FROM THE EXISTING GROUND TO ESTABLISHED LINE OF THE SUBGRADE AS SHOWN IN THE TYPICAL ROADWAY SECTIONS.
4. ALL STRUCTURAL CONCRETE SHALL BE CLASS "C" (5 SACK, 25–8–3600 PSI @ 28 DAYS) AND ALL REINFORCING STEEL SHALL BE GRADE SIXTY, UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE ENVIRONMENTAL INSPECTOR, AT 974–2278, 48 HOURS PRIOR TO THE REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL, IF APPLICABLE.
6. UTILITIES SHOWN REFLECT THE BEST INFORMATION AVAILABLE AT THE TIME THE PROJECT WAS SURVEYED. UTILITY RELOCATION WORK HAS BEEN OR WILL BE ACCOMPLISHED TO CLEAR THE WORK SPACE. THESE RELOCATIONS ARE NOT REFLECTED ON THESE DRAWINGS.
7. ALL STORM SEWER PIPE SHALL BE RCP, CLASS III, WITH CLASS B BEDDING, UNLESS OTHERWISE NOTED.
8. ANY UTILITY METERS IN THE WAY OF THE CONSTRUCTION WILL BE RELOCATED OUTSIDE THE PROPOSED CONSTRUCTION AREA BY THE UTILITY OWNER UNLESS SUCH WORK AFFECTING THOSE METERS IS INCLUDED IN THE CONTRACT.
9. ANY EXISTING SIDEWALKS, CURBS OR DRIVEWAYS DISTURBED BY THE CONSTRUCTION SHALL BE REMOVED AND RESTORED WITH SURFACE MATERIALS EQUAL TO OR BETTER THAN THE ORIGINAL.
10. THE RATE OF LIME SLURRY APPLICATION USED TO DETERMINE THE QUANTITIES FOR THIS PROJECT IS PERCENT BY WEIGHT.

8-4-17
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GENERAL NOTES

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FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
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APPENDIX P–2: CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION

1. 1. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
2. 2. PROTECTIVE FENCES SHALL BE ERECTED ACCORDING TO CITY OF AUSTIN STANDARDS FOR TREE PROTECTION.
3. 3. PROTECTIVE FENCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
4. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD–UP WITHIN TREE DRIP LINES.
5. PROTECTIVE FENCES SHALL SURROUND THE TREES OR GROUP OF TREES, AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE) , FOR NATURAL AREAS, PROTECTIVE FENCES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
   A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
   B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL), OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY ABORIST;
   C. WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
   D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
6. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIP LINES MAY BE PERMITTED IN THE FOLLOWING CASES:
   A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 TO 4 FEET BEYOND THE AREA DISTURBED;
   B. WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN A TREE'S DRIP LINE, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING SO THAT THIS AREA IS GRADED SEPARATELY PRIOR TO PAVING INSTALLATION TO MINIMIZED ROOT DAMAGE);
   C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE TO ALLOW 6 TO 10 FEET OF WORK SPACE BETWEEN THE FENCE AND THE BUILDING;
   D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY ARBORIST AT 974–1876 TO DISCUSS ALTERNATIVES.

   SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.
7. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED–ON PLANKING TO A HEIGHT OF 8 FT (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
8. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
9. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
10. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
11. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
12. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.).
13. ALL FINISHED PRUNING SHALL BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE CITY ARBORIST).
14. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NON–COMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.
15. REMOVAL OF EXISTING SIDEWALKS IN THE CRITICAL ROOT ZONE OF TREES TO BE PRESERVED SHALL BE ACCOMPLISHED BY LIFTING PANELS AND FLIPPING THEM TOWARD THE STREET TO AVOID DISTURBANCE OF ROOTS.

APPENDIX P–6: REMEDIAL TREE CARE NOTES AERATION AND SUPPLEMENTAL NUTRIENT REQUIREMENTS FOR TREES WITHIN CONSTRUCTION AREAS

AS A COMPONENT OF AN EFFECTIVE REMEDIAL TREE CARE PROGRAM PER ENVIRONMENTAL CRITERIA MANUAL SECTION 3.5.4, PRESERVED TREES WITHIN THE LIMITS OF CONSTRUCTION MAY REQUIRE SOIL AERATION AND SUPPLEMENTAL NUTRIENTS. SOIL AND/OR FOLIAR ANALYSIS SHOULD BE USED TO DETERMINE THE NEED FOR SUPPLEMENTAL NUTRIENTS. THE CITY ARBORIST MAY REQUIRE THESE ANALYSES AS PART OF A COMPREHENSIVE TREE CARE PLAN. SOIL PH SHALL BE CONSIDERED WHEN DETERMINING THE FERTILIZATION COMPOSITION AS SOIL PH INFLUENCES THE TREE'S ABILITY TO UPTAKE NUTRIENTS FROM THE SOIL. IF ANALYSES INDICATE THE NEED FOR SUPPLEMENTAL NUTRIENTS, THEN HUMATE/NUTRIENT SOLUTIONS WITH MYCORRHIZAE COMPONENTS ARE HIGHLY RECOMMENDED. IN ADDITION, SOIL ANALYSIS MAY BE NEEDED TO DETERMINE IF ORGANIC MATERIAL OR BENEFICIAL MICROORGANISMS ARE NEEDED TO IMPROVE SOIL HEALTH. MATERIALS AND METHODS ARE TO BE APPROVED BY THE CITY ARBORIST (512–974–1876) PRIOR TO APPLICATION. THE OWNER OR GENERAL CONTRACTOR SHALL SELECT A FERTILIZATION CONTRACTOR AND IENSURE COORDINATION WITH THE CITY ARBORIST.

PRE–CONSTRUCTION TREATMENT SHOULD BE APPLIED IN THE APPROPRIATE SEASON, IDEALLY THE SEASON PRECEDING THE PROPOSED CONSTRUCTION. MINIMALLY, AREAS TO BE TREATED INCLUDE THE ENTIRE CRITICAL ROOT ZONE OF TREES AS DEPICTED ON THE CITY APPROVED PLANS. TREATMENT SHOULD INCLUDE, BUT NOT LIMITED TO, FERTILIZATION, SOIL TREATMENT, MULCHING, AND PROPER PRUNING.

POST–CONSTRUCTION TREATMENT SHOULD OCCUR DURING FINAL REVEGETATION OR AS DETERMINED BY A QUALIFIED ARBORIST AFTER CONSTRUCTION. CONSTRUCTION ACTIVITIES OFTEN RESULT IN A REDUCTION IN SOIL MACRO AND MICRO PORES AND AN INCREASE IN SOIL BULK DENSITY. TO AMELIORATE THE DEGRADED SOIL CONDITIONS, AERATION VIA WATER AND/OR AIR INJECTED INTO THE SOIL IS NEEDED OR BY OTHER METHODS AS APPROVED BY THE CITY ARBORIST. THE PROPOSED NUTRIENT MIX SPECIFICATIONS AND SOIL AND/OR FOLIAR ANALYSIS RESULTS NEED TO BE PROVIDED TO AND APPROVED BY THE CITY ARBORIST PRIOR TO APPLICATION (FAX # 512–974–3010). CONSTRUCTION WHICH WILL BE COMPLETED IN LESS THAN 90 DAYS MAY USE MATERIALS AT ½ RECOMMENDED RATES. ALTERNATIVE ORGANIC FERTILIZER MATERIALS ARE ACCEPTABLE WHEN APPROVED BY THE CITY ARBORIST. WITHIN 7 DAYS AFTER FERTILIZATION IS PERFORMED, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF THE WORK PERFORMED TO THE CITY ARBORIST, PLANNING AND DEVELOPMENT REVIEW DEPARTMENT. P.O. BOX 1088, AUSTIN, TX 78767. THIS NOTE SHOULD BE REFERENCED AS ITEM #1 IN THE SEQUENCE OF CONSTRUCTION.

SPECIAL CONSTRUCTION TECHNIQUES ECM 3.5.4(D)

PRIOR TO EXCAVATION WITHIN TREE DRIPLINES OR THE REMOVAL OF TREES ADJACENT TO OTHER TREES THAT ARE TO REMAIN, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE ROOT DAMAGE.

IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION WITH FENCING AND WHERE HEAVY VEHICULAR TRAFFIC IS ANTICIPATED, COVER THOSE AREAS WITH A MINIMUM OF 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. IN AREAS WITH HIGH SOIL PLASTICITY GEOTEXTILE FABRIC, PER STANDARD SPECIFICATION 620S SHOULD BE PLACED UNDER THE MULCH TO PREVENT EXCESSIVE MIXING OF THE SOIL AND MULCH. ADDITIONALLY, MATERIAL SUCH AS PLYWOOD AND METAL SHEETS COULD BE REQUIRED BY THE CITY ARBORIST TO MINIMIZE ROOT IMPACTS FROM HEAVY EQUIPMENT. ONCE THE PROJECT IS COMPLETED, ALL MATERIALS SHOULD BE REMOVED, AND THE MULCH SHOULD BE REDUCED TO A DEPTH OF 3 INCHES.

PERFORM ALL GRADING WITHIN CRITICAL ROOT ZONE AREAS BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.

WATER ALL TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL."

APPENDIX Q–2: IMPERVIOUS COVER (R.O.W. ONLY)

PROJECT CONSISTS OF IMPROVEMENTS WITH EXISTING ROW

SUBURBAN WATERSHEDS

NOTE: Q1 TABLES ARE NOT REQUIRED FOR SUBURBAN WATERSHEDS

IMPERVIOUS COVER ALLOWED AT 80 % X GSA = 5.37 ACRES

ALLOWABLE IMPERVIOUS COVER:

TOTAL ACREAGE 15–25% = 0 ACRES X 10% = 0

R.O.W. IMPERVIOUS COVER:

	POST CONSTRUCTION	EXISTING	PROPOSED INCREASE
R.O.W. IMPERVIOUS COVER	= 5.10 ACRES = 76.1 %	= 4.10 ACRES = 61.2 %	= 1.00 ACRES = 14.9 %

IMPERVIOUS COVER ON SLOPES:

SLOPE CATEGORIES	ACRES	BUILDING / AND OTHER IMPERVIOUS COVER AC.	BUILDING / AND OTHER IMPERVIOUS COVER % OF CATEGORY	DRIVEWAYS / ROADWAYS AC.	DRIVEWAYS / ROADWAYS % OF CATEGORY	EXISTING DRIVEWAYS / ROADWAYS AC.	EXISTING DRIVEWAYS / ROADWAYS % OF CATEGORY	PROPOSED INCREASE DRIVEWAYS / ROADWAYS AC.	PROPOSED INCREASE DRIVEWAYS / ROADWAYS % OF CATEGORY
0–15%	6.70	0	0%	5.10	76.1%	4.10	61.2%	1.00	14.9%
15–25%	0	0	0	0	0	0	0	0	0
25–35%	0	0	0	0	0	0	0	0	0
OVER 35%	0	0	0	0	0	0	0	0	0

TOTAL R.O.W. AREA 6.70 AC

8-4-17

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GENERAL NOTES

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FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
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ENGINEER'S NOTES

1. THE BASIS OF BEARING OF THE SURVEY SHOWN HEREON IS TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83(96), UTILIZING WESTERN DATA SYSTEMS CONTINUALLY OPERATING REFERENCE STATIONS (CORS) NETWORK.
2. THIS IS A SURFACE DRAWING, BEARINGS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83(96), CENTRAL ZONE, UTILIZING WESTERN DATA SYSTEMS CONTINUALLY OPERATING REFERENCE STATION (CORS) NETWORK. AND ADDITIONALLY TIED LCRA GPS CONTROL MONUMENTS, COORDINATE VALUES ARE PROJECT SPECIFIC SURFACE VALUES. TO DERIVE GRID VALUES, MULTIPLY BY A COMBINED SCALE FACTOR OF 0.99988, WITH AN ORIGIN POINT OF N 0.0, E 0.0.
3. ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION. THE CONTRACTOR IS REMINDED OF HIS RESPONSIBILITY TO PROVIDE A TRENCH SAFETY PROTECTION PLAN PRIOR TO THE START OF CONSTRUCTION. THE DOCUMENT SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL PRIOR TO BEGINNING ANY TRENCH EXCAVATION.
4. LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE VICINITY OF CONSTRUCTION SHALL BE UNCOVERED TO DETERMINE EXACT LOCATIONS PRIOR TO THE START OF CONSTRUCTION. THIS SHALL BE SUBSIDIARY.
5. ALL JOINT SEALS, CONNECTIONS, AND MODIFICATIONS NECESSARY FOR PROPER INSTALLATION OF STORM DRAINAGE SYSTEMS SHALL BE SUBSIDIARY TO RCP AND BOX CULVERT BID ITEMS.
6. CONCRETE RIPRAP AND ENERGY DISSIPATION BLOCKS SHALL BE INCLUDED IN THE PRICE BID FOR CONCRETE WINGWALL AND ARE SUBSIDIARY.
7. CONTROL POINTS FOR MANHOLES AND JUNCTION BOXES SHALL BE THE CENTER OF THE STRUCTURE BASE.
8. CONTROL POINTS FOR CURB INLETS SHALL BE THE MIDPOINT OF THE FACE OF CURB FOR CURB INLET ONLY (EXCLUDING INLET EXTENSIONS). TOP OF CURB INLET ELEVATIONS SHALL MATCH THE EXISTING OR PROPOSED TOP OF CURB ELEVATIONS AS APPROPRIATE.
9. ALL HORIZONTAL BENDS AND PIPE TO PIPE ANGLED CONNECTIONS IN RCP PIPE SHALL BE CONSTRUCTED USING PRE-FABRICATED BENDS AND FITTINGS.
10. THE LOCATIONS OF DRIVEWAYS, STEPS, ETC., AS SHOWN ON THESE PLANS ARE APPROXIMATE. ACCURATE LOCATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION AFTER CONSULTATION WITH THE PROPERTY OWNERS.
11. CONTRACTOR SHALL RECONSTRUCT ALL EXISTING DRIVEWAYS TO THE LIMITS SHOWN OR TO THE NEAREST CONSTRUCTION JOINT IN THE EXISTING DRIVEWAYS AS DIRECTED BY THE ENGINEER.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND MAINTAIN ALL EROSION CONTROL FACILITIES BEFORE, DURING, AND AFTER ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
13. FOR PEDESTRIAN SAFETY, THE CONTRACTOR SHALL INSTALL ORANGE PLASTIC CONSTRUCTION FENCING (4 FEET TALL MINIMUM) AROUND ALL OPEN EXCAVATIONS OR AS DIRECTED BY THE ENGINEER. SUCH FENCING SHALL NOT OBSTRUCT SIGHT LINES OF THE TRAVELING PUBLIC.
14. THE CONTRACTOR SHALL COVER OR TEMPORARILY REMOVE EXISTING SIGNS THAT CONFLICT WITH THE SUGGESTED TRAFFIC CONTROL PLANS OR THE INTENT THEREOF BUT DO NOT REQUIRE RELOCATION DUE TO PHYSICAL CONFLICTS. SAID SIGNS SHALL NOT BE RELOCATED UNTIL TEMPORARY SIGN SUPPORTS HAVE BEEN INSTALLED TO ALLOW FOR THE IMMEDIATE RELOCATION OF ANY SUCH SIGNS. THIS SHALL BE SUBSIDIARY.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING AND PROTECTION OF UTILITY POLES DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY A MINIMUM OF 72 HOURS IN ADVANCE OF CONSTRUCTION IN THE VICINITY OF THEIR POLES SO THEY CAN VERIFY THE POLES ARE BEING PROPERLY BRACED, PROTECTED. SUBSIDIARY.
16. PREPARATION OF ROW SHALL INCLUDE ALL ROW AREAS WITHIN THE PROJECT, DRIVEWAY AND LEAD WALK PENETRATION AREAS, WITHIN THE DAYLIGHT AND PROJECT LIMITS. PREPARATION OF ROW SHALL INCLUDE REMOVAL OF EXISTING CONCRETE, RETAINING WALLS, CONCRETE COLUMNS, BRIDGE CLASS CULVERTS, SLOPE PAVING, HEADWALLS, WINGWALLS, FLUMES, GUARDRAILS, AND STORM DRAIN CONDUIT. PREPARATION OF ROW SHALL ALSO INCLUDE ANY OTHER DISTURBED AREAS AS REQUIRED FOR THE DIVERSION AND CARE OF WATER.
17. CONTRACTOR SHALL PROTECT ALL EXISTING FENCE AND GATES ALONG ROW LINES UNLESS OTHERWISE NOTED ON PLANS.
18. FENCE AND GATE ITEMS SHALL INCLUDE CONNECTIONS TO EXISTING FENCING NOT IMPACTED BY THE PROJECT AND INCLUDE REPLACEMENT OF MOW STRIPS IF PRESENT ALONG THE EXISTING FENCE LINE. ADDITIONAL CORNER POSTS MAY BE REQUIRED FOR CONNECTION, AND ARE SUBSIDIARY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIALS NOT SUITABLE FOR REUSE OR IN EXCESS OF WHAT IS REQUIRED FOR RELOCATION. THIS SHALL BE SUBSIDIARY.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING IRRIGATION SYSTEMS IN THE PROJECT AREA. ADJUSTMENTS TO EXISTING IRRIGATION SYSTEMS IMPACTED BY THE PROJECT SHALL BE CAPPED AT THE ROW LINE. THIS SHALL BE SUBSIDIARY.
20. CONTRACTOR SHALL SALVAGE EXISTING LANDSCAPING PLANTS AND MATERIALS ON PRIVATE PROPERTY TO THE MAXIMUM EXTENT PRACTICABLE.
21. CONTRACTOR SHALL ENSURE FENCES DISTURBED BY CONSTRUCTION ARE CLOSED AT THE END OF EACH WORKING DAY WITH TEMPORARY CONSTRUCTION FENCING AT A MINIMUM. THIS SHALL BE SUBSIDIARY.
22. ALL RADII DIMENSIONS ARE TO FACE OF CURB.
23. CONTRACTOR SHALL REFER TO THE DIVERSION AND CARE OF WATER SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO THE MANAGEMENT OF STORMWATER DURING CONSTRUCTION.
24. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE APPEARANCE OF ALL CONCRETE STRUCTURES UNTIL FINAL ACCEPTANCE OF THE PROJECT.
25. ALL DIMENSIONS ARE TAKEN AT THE FACE OF CURB UNLESS OTHERWISE NOTED ON PLANS.
26. CALL THE TEXAS STATEWIDE ONE CALL LOCATOR NUMBER 811, 72 HOURS PRIOR TO THE START OF EXCAVATION.
27. CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTING EXISTING OVERHEAD AND UNDERGROUND UTILITIES THROUGHOUT THE DURATION OF CONSTRUCTION.
28. CONTRACTOR SHALL MAINTAIN AN OPEN SIDEWALK OR SHARED USE PATH ADA COMPLIANT ROUTE ALONG EITHER THE NORTH OR THE SOUTH SIDE OF THE PROJECT AT ALL TIMES IN ACCORDANCE WITH THE TCP PLANS.
29. CONTRACTOR SHALL RESTRIPE FIRE LANES WHERE NOTED. CONTRACTOR SHALL RESTORE WHITE ARROWS, ENTRANCE ONLY, AND EXIT ONLY PAVEMENT MARKINGS ON SCHOOL DRIVES DISTURBED BY CONSTRUCTION, THIS SHALL BE SUBSIDIARY.
30. CONTRACTOR SHALL HAVE CERTIFIED ARBORIST TRIM UP THE TREE CANOPY OVER THE SHARED USE PATH TO PROVIDE A CLEAR HEIGHT OF 8-FEET ABOVE THE PATH. THIS SHALL BE SUBSIDIARY.
31. CONTRACTOR MAY ENCOUNTER EXISTING IRRIGATION, UNDERGROUND ELECTRIC LINES, AND PVC CONDUIT SLEEVES IN DRIVEWAY AND LEAD WALK PENETRATION AREAS. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS PRIOR TO WORK IN THIS AREAS TO IDENTIFY KNOWN PRIVATE UTILITY CROSSINGS. CONTRACTOR SHALL ADJUST THE LOCATIONS OF PRIVATE UTILITIES IN DRIVEWAY PENETRATION AREAS AS REQUIRED FOR THE PROJECT. THIS SHALL BE SUBSIDIARY.
32. CONTRACTOR IS MADE AWARE THIS PROJECT INCLUDES COORDINATION WITH OTHERS DURING CONSTRUCTION TO ALLOW THE CITY OF AUSTIN TO INSTALL AN IRRIGATION SYSTEM IN THE AREAS SHOWN ON THE TREE MITIGATION PLANS PRIOR TO TOP SOIL AND SEEDING ACTIVITES. CONTRACTOR SHALL NOTIFY CITY OF AUSTIN PUBLIC WORKS DEPARTMENT ROB GROTTY 512.974.9540 AND SAM WEST 512.974.8775 FOUR (4) WEEKS PRIOR TO FINAL TOP SOIL AND SEEDING ACTIVITIES. CONTRACTOR SHALL COORDINATE EACH OTHERS AS NECESSARY TO ACCOMMODATE ACCESS BY CONSTRUCTION EQUIPMENT, AND SCHEDULE FLEXIBILITY TO ALLOW FOR OVERLAP IN WORK AREAS. THIS SHALL BE SUBSIDIARY.
33. IRRIGATION SLEEVES SHALL BE SCHEDULE 40 PVC PIPE IN THE DIAMETER AND LOCATIONS SHOWN ON THE PLANS. THIS SHALL BE SUBSIDIARY.
34. CONNECTIONS TO EXISTING INLETS SHALL BE SUBSIDIARY TO INLET BID ITEMS, AND SHALL INCLUDE RE-WORKING THE INVERT OF THE EXISTING INLET IF NEEDED.

8.4.17
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GENERAL NOTES

SHEET 22 OF 273

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TRAFFIC CONTROL PLAN

ITEM #	DESCRIPTION	UNIT	SHEET 32	SHEET 33	SHEET 36	SHEET 39	SHEET 40	SHEET 41	SHEET 42	SHEET 44	TOTAL
803S-MO	BARRICADES, SIGNS, AND TRAFFIC HANDLING	MO									**12**
870S-A24W	WORK ZONE PAVEMENT MARKINGS (REMOVABLE), 24 INCHES IN WIDTH, WHITE IN COLOR	LF	60	60	70	160	160	60	80	160	**810**
870S-B4Y	WORK ZONE PAVEMENT MARKINGS (NON-REMOVABLE), 4 INCHES IN WIDTH, YELLOW IN COLOR	LF				3114		2880	2408		**8402**
874S-B4	ELIMINATE EXISTING PAVEMENT MARKINGS: 4 INCHES IN WIDTH	LF				2000	1200	1600	1700		**6500**

ROADWAY

ITEM #	DESCRIPTION	UNIT	SHEET 66	SHEET 67	SHEET 68	SHEET 69	SHEET 70	SHEET 71	SHEET 72	SHEET 73	SHEET 74	SHEET 75	TOTAL
101S-C	PREPARING RIGHT-OF-WAY	LS											**1**
102S-C	CLEARING AND GRUBBING	LS											**1**
110S-B	STREET EXCAVATION, PLAN QUANTITY	CY	8	50	68	68	89	91	110	45	7	8	**544**
132S-A	EMBANKMENT	CY	1	136	348	409	1611	548	79	17	36	30	**3215**
201S	SUBGRADE PREPERATION	SY	102	493	1023	1044	938	956	797	453	310	360	**6476**
203S-A	LIME TREATED SUBGRADE, (8 IN THICK), (SLURRY)	SY	49	445	762	775	764	757	750	425	140	100	**4967**
210S-A	FLEXIBLE BASE	CY	20	152	263	273	257	261	304	145	305	345	**2325**
306S	PRIME COAT	GAL		58	110	132	107	109	105	68			**689**
307S	TACK COAT	GAL		38	43	75	59	60	60	33	25	28	**421**
312S-D	SEAL COAT, COMPLETE IN PLACE	SY	2272	2180	2139	2400	2138	2148	2164	1200	244	271	**17156**
313S-B	RUBBER ASPHALT JOINT AND CRACK SEALER	LF	525	1120	1400	1400	1400	1400	1400	787.5	227.5	227.5	**9888**
315S-A	SURFACE MILLING	SY		71	90	93	89	93	95	50	135	104	**820**
340S-B2D	HOT MIX ASPHALTIC CONCRETE PAVEMENT, 2 INCHES, TYPE D	SY		315	586	839	580	592	592	330			**3834**
340S-B4C	HOT MIX ASPHALTIC CONCRETE PAVEMENT, 4 INCHES, TYPE C	SY		239	486	749	491	499	490	277			**3231**
340S-B3C	HOT MIX ASPHALTIC CONCRETE PAVEMENT, 3 INCHES, TYPC C	SY							26				**26**
340S-L	HOT MIX ASPHALTIC CONCRETE PAVEMENT, HEIGHT VARIES, TYPE D LEVEL-UP COURSE	LS									0.5	0.5	**1**
360S-A	7 IN. CONCRETE PAVEMENT	SY	101										**101**
360S-B	MONOLITHIC CURB	LF			85	84	100	120	86	38			**513**
401S-A	UNCLASSIFIED STRUCTURAL EXCAVATION, PLAN QUANTITY	CY				14							**14**
430S-B	P.C. CONCRETE CURB & GUTTER (FINE GRADING)	LF	177	322	405	400	410	360	402	225	140	180	**3021**
432S-4	NEW P.C. CONCRETE SIDEWALK, 4 INCH THICKNESS	SF			60	87				76	130	320	**673**
432S-RP-1	P.C. SIDEWALK CURB RAMP WITH PAVERS (TYPE 1)	EA				4							**4**
432S-RP-1B	P.C. SIDEWALK CURB RAMP WITH PAVERS (TYPE 1B)	EA	2			4							**6**
433S-C	TYPE II P.C. CONCRETE DRIVEWAYS	SF			1912	1772	1215	1613	1088	1476			**9076**
433S-GRAVEL	8" THICK COMPACTED GRAVEL DRIVEWAY (3"-5" STONE)	SF						1484	1096				**2580**
434S	6 INCH P.C. CONCRETE MEDIANS AND ISLANDS	SF	1200										**1200**
470S-R	CURB CUTS FOR SIDEWALK RAMPS	LF	173		34	30		45	30				**312**
620S-A	FILTER FABRIC	SY						165	122				**287**
500-6001	MOBILIZATION PAYMENT	LS											**1**

DRAINAGE

ITEM #	DESCRIPTION	UNIT	SHEET 113	SHEET 114	SHEET 115	SHEET 116	SHEET 118	TOTAL
120S-B	CHANNEL EXCAVATION, PLAN QUANTITY	CY	23	500	297	162		**982**
130S-T	CLASS C (TOP SOIL), PLAN QUANTITY	CY	15	127	44	60	314	**560**
132S-A	EMBANKMENT	CY	25			66		**91**
201S	SUBGRADE PREPARATION	SY			182	308		**490**
401S-A	UNCLASSIFIED STRUCTURAL EXCAVATION, PLAN QUANTITY	CY	16	60	655	23		**754**
508S-I47	4-SIDED AREA INLET (7'X7')	EA	1					**1**
508S-I10S	INLET, STANDARD (10')	EA					2	**2**
508S-I15S	INLET, STANDARD (15')	EA		1				**1**
509S-1	TRENCH SAFETY PROTECTIVE SYSTEMS (ALL DEPTHS)	LF	205	67	155	23	6	**456**
510-ASD18	PIPE, 18-INCH DIA. RCP CLASS III (ALL DEPTHS), INCLUDING EXCAVATION & BACKFILL COMPLETE IN PLACE AS DETAILED AND SPECIFIED	LF		3	15		6	**24**
510-ASD36	PIPE, 36-INCH DIA. RCP CLASS III (ALL DEPTHS), INCLUDING EXCAVATION & BACKFILL COMPLETE IN PLACE AS DETAILED AND SPECIFIED	LF	205					**205**
511S-A	GATE VALVE (6")	EA					1	**1**
551	PIPE UNDERDRAINS (6" PVC)	LF					97	**97**
559S-5X3	PRECAST CONCRETE BOX CULVERTS, 5 FT.X 3 FT.	LF		64				**64**
559S-12X4	PRECAST CONCRETE BOX CULVERTS, 12 FT.X 4 FT.	LF			30			**30**
559S-A	CAST IN PLACE CONCRETE BOX CULVERTS	CY				23		**23**
591S-A	DRY ROCK RIPRAP	SY			182	308		**490**
591S-F-5	5" CONCRETE RIPRAP (HEADWALLS) COMPLETE IN PLACE AS DETAILED AND SPECIFIED	SY			50	124		**174**
602S-A	BERMUDA SODDING	SY	43	380	134	180	941	**1678**
602S-B	ST AUGUSTINE SODDING	SY	43	380	134	180	941	**1678**
605S-A	SOIL RETENTION BLANKET, CLASS 1, TYPE C	SY	39		839	355		**1233**
WC 9031	DIVERSION AND CARE OF WATER	MO						**12**
WC 9032	WATER QUALITY AND DETENTION POND, COMPLETE IN PLACE	EA					1	**1**
450-6051	PEDESTRIAN RAILING (TXDOT PRD-13 TYPE E)	LF			75	100		**175**
466-6154	WINGWALL (FW-0)(HW=7 FT), COMPLETE IN PLACE AS DETAILED AND SPECIFIED	EA			1			**1**
466-6169	WINGWALL (FW-S)(HW=8 FT), COMPLETE IN PLACE AS DETAILED AND SPECIFIED	EA				2		**2**
466-6210	WINGWALL (SW-0)(HW=7 FT), COMPLETE IN PLACE AS DETAILED AND SPECIFIED	EA			1			**1**
467-6175	SET (TY I)(S= 5 FT)(HW= 3 FT)(3:1) (C), COMPLETE IN PLACE AS DETAILED AND SPECIFIED	EA		2				**2**
467-6448	SET (TY II)(36 IN)(RCP)(3:1)(C), COMPLETE IN PLACE AS DETAILED AND SPECIFIED	EA	1					**1**
550-6001	CHAIN LINK FENCE (INSTALL)(6')	LF					275	**275**
550-6012	CHAIN LINK FENCE GATE (INSTALL)(6'X16')	EA					1	**1**

RETAINING WALL

ITEM #	DESCRIPTION	UNIT	SHEET 149	SHEET 150	SHEET 151	TOTAL
401S-A	UNCLASSIFIED STRUCTURAL EXCAVATION, PLAN QUANTITY	CY	102	296	33	**431**
414S-C-N	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL (RET. WALL N), INCLUDING REINFORCEMENT, COMPLETE IN PLACE AS DETAILED AND SPECIFIED	CY	50			**50**
414S-C-S	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL (RET. WALL S), INCLUDING REINFORCEMENT, COMPLETE IN PLACE AS DETAILED AND SPECIFIED	CY		100		**100**
414S-C-P	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL FOOTING (RET. WALL P), INCLUDING REINFORCEMENT, COMPLETE IN PLACE AS DETAILED AND SPECIFIED	CY			10	**10**
450-6051	PEDESTRIAN RAILING (TXDOT PRD-13 TYPE E)	LF	129	163	126	**418**
623S	DRY STACK ROCK WALL (RET. WALL P)	SF			500	**500**
722S-A	PROTECTIVE COATING (NEW STRUCTURES) - TO COVER EXPOSED CONC. OR ROCK SURFACES	LS				**1**

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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QUANTITY SUMMARY SHEET 1 OF 2

SHEET 23 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				23

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SHARED USE PATH

ITEM #	DESCRIPTION	UNIT	SHEET 78	SHEET 79	SHEET 80	SHEET 81	SHEET 82	SHEET 83	SHEET 84	SHEET 85	SHEET 86	SHEET 87	SHEET 88	SHEET 89	SHEET 90	SHHET 91	SHEET 92	SHEET 93	SHEET 94	TOTAL
102S-C	CLEARING AND GRUBBING	LS																		**1**
201S	SUBGRADE PREPERATION	SY	430	602	506	584	623	483	599	25	422	623	545	550	623	623	623	623	214	**7666**
210S-A	FLEXIBLE BASE	CY	62	86	73	84	89	69	86	4	61	89	78	79	89	89	89	89	31	**1099**
401S-A	UNCLASSIFIED STRUCTURAL EXCAVATION, PLAN QUANTITY	CY			27	7														**34**
414S-C-SUP	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL, INCLUDING REINFORCING STEEL	CY			9	3														**12**
432S-6	NEW P.C. CONCRETE SHARED USE PATH, 6 INCH THICKNESS	SF	2019	3007	2599	3000	3200	2468	3051	123	1956	3295	2800	2824	3200	3200	3200	3200	1096	**39212**
432S-RP-1	P.C. SIDEWALK CURB RAMP WITH PAVERS (TYPE 1)	EA					1								1					**2**

SIGNAGE AND PAVEMENT MARKINGS

ITEM #	DESCRIPTION	UNIT	SHEET 157	SHEET 158	SHEET 159	SHEET 160	SHEET 161	SHEET 162	TOTAL
824S	TRAFFIC SIGNS	EA	3	4	10	12	3	2	**34**
827S-A	BICYCLE LANE AHEAD SIGN	EA	1						**1**
827S-B	BICYCLE LANE ENDS SIGN	EA		1					**1**
829S-A	TYPE I BICYCLE LANE MARKINGS 6 INCHES IN WIDTH, WHITE IN COLOR	LF		1125				569	**1694**
829S-B	TYPE I BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	EA		2					**2**
829S-C	TYPE I BICYCLE LANE (BIKE RIDER) SYMBOL, WHITE IN COLOR	EA		4					**4**
829S-E	TYPE II BICYCLE LANE MARKINGS 6 INCHES IN WIDTH, WHITE IN COLOR	LF		1125				569	**1694**
829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	EA		2					**2**
829S-G	TYPE II BICYCLE LANE (BIKE RIDER) SYMBOL, WHITE IN COLOR	EA		4					**4**
863S-2	REFLECTORIZED PAVEMENT MARKERS (TYPE I-C)	EA		37	32	40	40	15	**164**
863S-3	REFLECTORIZED PAVEMENT MARKERS (TYPE II A-A)	EA		23	32	40	40		**135**
871S-A4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, YELLOW IN COLOR (SOLID)	LF		1286	1258	1446	1430	290	**5710**
871S-A4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, YELLOW IN COLOR (BROKEN)	LF		897	320	400	400		**2017**
871S-A4WB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, WHITE IN COLOR (BROKEN)	LF		1450	320	400	400	150	**2720**
871S-A8WS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 8 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	LF	87	153					**240**
871S-A12YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 12 INCHES IN WIDTH, YELLOW IN COLOR (SOLID)	LF		65			84	210	**359**
871S-A12WS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 12 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	LF		303	216	64		296	**879**
871S-A24WS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 24 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	LF			24				**24**
871S-C	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS, LEFT ARROW, WHITE IN COLOR	EA	1	1					**2**
871S-C	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS, LEFT ARROW, YELLOW IN COLOR	EA		2	4	2	4		**12**
871S-B	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS, 'ONLY', WHITE IN COLOR	EA	1						**1**
871S-E4YB	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, YELLOW IN COLOR (SOLID)	LF		1286	1258	1446	1430	290	**5710**
871S-E4YS	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, YELLOW IN COLOR (BROKEN)	LF		897	320	400	400		**2017**
871S-E4WB	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, WHITE IN COLOR (BROKEN)	LF		1450	320	400	400	150	**2720**
871S-E8WS	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 8 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	LF	87	153					**240**
871S-E12YS	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 12 INCHES IN WIDTH, YELLOW IN COLOR (SOLID)	LF		65			84	210	**359**
871S-E12WS	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 12 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	LF		303	216	64		296	**879**
871S-E24WS	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 24 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	LF			24				**24**
871S-G	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS, LEFT ARROW, WHITE IN COLOR	EA	1	1					**2**
871S-G	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS, LEFT ARROW, YELLOW IN COLOR	EA		2	4	2	4		**12**
871S-F	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS, 'ONLY', WHITE IN COLOR	EA	1						**1**
874S-A4	ELMININATING EXISTING PAVEMENT MARKINGS; 4 INCHES IN WIDTH	LF					655	1535	**2190**
874S-A12	ELMININATING EXISTING PAVEMENT MARKINGS; 12 INCHES IN WIDTH	LF					66	255	**321**
432 6045	RIPRAP (MOW STRIP)(4 IN)	CY				24.8			**24.8**
540 6001	MTL W-BEAM GD FEN (TIM POST)	LF				788			**788**
540 6016	DOWNSTREAM TERMINAL ANCHOR SECTION	EA				2			**2**
540 6020	MTL W-BEAM GD FEN (LOW FILL CULVERT)	LF				50			**50**
544 6001	GUARDRAIL END TREATMENT (INSTALL)	EA				2			**2**
658 6047	INSTL OM ASSM (OM-2Y)(WC)GND	EA				4			**4**
658 6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA				16			**16**
658 6048	INSTL OM ASSM (OM-2Z)(FLX)GND	EA				3		1	**4**

UTILITY ADJUSTMENTS

ITEM #	DESCRIPTION	UNIT	SHEET 264	SHEET 265	SHEET 266	SHEET 267	SHEET 268	SHEET 269	SHEET 223	TOTAL
432S-A	P.C. CONCRETE CURB AND GUTTER (INCLUDING REMOVAL AND REPLACEMENT)	LF	20	20			20	10	**70**	**140**
504S-1WM	REPOSITIONING & ADJUST WATER METER BOX TO GRADE	EA						1	**1**	**2**
506S-4WW	MAJOR MANHOLE HEIGHT ADJUSTMENT	EA				2			**2**	**4**
506S-4WW	MINOR MANHOLE HEIGHT ADJUSTMENT	EA			1				**1**	**2**
509S-1	TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS (ALL DEPTHS)	LF	20	30			72	49	**171**	**342**
510-AW1.5-K	PIPE, 1.5" DIAMETER, COPPER TYPE K (ALL DEPTHS) INCLUDES EXCAVATION AND BACKFILL	LF					42	8	**50**	**100**
510-AWRJ-6 DIA	FACTORY RESTRAINED JOINT PIPE, 6" DIAMETER, DI CL 350 (ALL DEPTHS) INCLUDES EXCAVATION AND BACKFILL	LF	20	15					**35**	**70**
510-AWRJ-8 DIA	FACTORY RESTRAINED JOINT PIPE, 8" DIAMETER, DI CL 350 (ALL DEPTHS) INCLUDES EXCAVATION AND BACKFILL	LF					30	25	**55**	**110**
510-AWRJ-12 DIA	FACTORY RESTRAINED JOINT PIPE, 12" DIAMETER, DI CL 350 (ALL DEPTHS) INCLUDES EXCAVATION AND BACKFILL	LF		15				16	**31**	**62**
510-BW-8	CONNECTION NEW 8" SERVICE TO EXISTING 8" WATER VAULT, WITH FOSTER ADAPTOR	EA					1	1	**2**	**4**
510-BW-2x2	CONNECTING NEW SINGLE 1.5" SERVICE TO EXISTING PRIVATE SERVICE	EA					1	1	**2**	**4.0**
510-JW 12x6	WET CONNECTIONS, 12" DIA. x 6" DIA.	EA	2	1					**3**	**6**
510-JW 12x8	WET CONNECTIONS, 12" DIA. x 8" DIA.	EA					1		**1**	**2**
510-JW 12x12	WET CONNECTIONS, 12" DIA. x 12" DIA.	EA		1				1	**2**	**4**
510-KW	DUCTILE IRON FITTINGS	TON	0.1				0.15	0.15	**0.4**	
511S-A-6	VALVES, GATE VALVE, 6" DIAMETER	EA	2	1					**3**	
511S-A-12	VALVES, GATE VALVE, 12" DIAMETER	EA		1					**1**	

TREE PRESERVATION PLAN

ITEM #	DESCRIPTION	UNIT	SHEET 201	SHEET 202	SHEET 203	SHEET 204	SHEET 205	SHEET 206	TOTAL
610S-A	PROTECTIVE FENCING TYPE A CHAIN LINK FENCE	LF	529	549	987	511	80	630	**3286**
610S-D	TREE WELL (TREE PROTECTION)	EA	1	1	5				**7**
610S-R	REMOVAL OF EXISTING TREE	EA	19	16	16	8		6	**65**
703S	SAFETY FENCE	LF			275				**275**

EROSION AND SEDIMENTATION CONTROLS

ITEM #	DESCRIPTION	UNIT	SHEET 187	SHEET 188	SHEET 189	SHEET 190	SHEET 191	SHEET 192	TOTAL
605S-A	SOIL RETENTION BLANKET CLASS 1, TYPE A	SY	1802	4343	7650	4431			**18226**
604S-D	SEEDING FOR EROSION CONTROL	SY	1802	3470	231	1950			**7453**
609S-A	TOPSOIL AND SEEDBED PREP	SY		873	7419	2481			**10773**
609S-C	NATIVE GRASSLANDS FOR EROSION CONTROL	SY		873	7419	2481			**10773**
609S-F	WATERING	KGAL		4	32	11			**47**
609S-G	MANAGEMENT PRACTICES	SY		873	7419	2481			**10773**
628S-B	SEDIMENT CONTAINMENT DIKES WITH FILTER FABRIC	LF		149	47	74			**270**
639S	ROCK BERM	LF		199	27			18	**244**
WC 9033	CONCRETE WASHOUT AREA	EA				1			**1**
641S	STABILIZED CONSTRUCTION ENTRANCE	EA			1	1			**2**
642S	SILT FENCE FOR EROSION CONTROL	LF	686	1180	1400	1130	57	304	**4757**
648S	MULCH SOCK	LF	128	134	73	149	25		**509**
632S	STORM INLET SEDIMENT TRAP	CF			108	135			**243**
506 6003	ROCK FILTER DAM (INSTALL) (TY 3)	LF		39	100			50	**189**
506 6011	ROCK FILTER DAM (REMOVE)	LF		39	100			50	**189**

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				24

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SUMMARY OF SMALL SIGNS

SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX)

PLAN SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN TEXT	DIMENSIONS	ALUMINUM TYPE A	ALUMINUM TYPE G	Post Type: FRP = Fiberglass, TWT = Thin-Wall, 10BWG = 10 BWG, S80 = Sch 80	Posts (1 or 2)	Anchor Type: UA=Univer-Conc, UB=Univer-Bolt, SA=Slip-Conc, SB=Slip-Bolt, WS=Wedge Steel, WP=Wedge Plastic	Mounting Designation: P = Prefab. "Plain", T = Prefab. "T", U = Prefab. "U"	Mounting Designation: 1EXT or 2EXT = # of Ext. BM = Extruded Wind Beam, WC = 1.12 #/ft Wing Chan., EXAL= Extruded Aluminum
157	1	R3-17	BIKE LANE	24" x 18"	X		10BWG	1	SA	P	
		R3-17aP	AHEAD	24" x 8"	X						
157	2	W11-1	BIKE WARNING	24" x 24"	X		10BWG	1	SA	P	
		W16-1P	SHARE THE ROAD	18" x 24"	X						
158	3	R3-17	BIKE LANE	24" x 18"	X		10BWG	1	SA	P	
		R3-17bP	ENDS	24" x 8"	X						
158	4	R7-9a	NO PARKING BIKE LANE	12" x 18"	X		10BWG	1	SA	P	
158	5	R7-9a	NO PARKING BIKE LANE	12" x 18"	X		10BWG	1	SA	P	
158	6	R3-9b	TWO-WAY LEFT TURN ONLY	24" x 36"	X		10BWG	1	SA	P	
		R3-9dP	END	30" x 12"	X						
158	7	R3-9b	TWO-WAY LEFT TURN ONLY	24" x 36"	X		10BWG	1	SA	P	
		R3-9cP	BEGIN	30" x 12"	X						
159	8	R3-9b	TWO-WAY LEFT TURN ONLY	24" x 36"	X		10BWG	1	SA	P	
159	9	R1-1	STOP	30" x 30"	X		10BWG	1	SA	P	
159	10	R1-1	STOP	30" x 30"	X		10BWG	1	SA	P	
159	11	S1-1	SCHOOL	36" x 36"	X		10BWG	1	SA	P	
		SW16-7P	DIAGONAL ARROW	24" x 12"	X						
159	12	S1-1	SCHOOL	36" x 36"	X		10BWG	1	SA	P	
		SW16-7P	DIAGONAL ARROW	24" x 12"	X						
159	13	S1-1	SCHOOL	36" x 36"	X		10BWG	1	SA	P	
		SW16-9P	AHEAD	24" x 12"	X						
159	14	S1-1	SCHOOL	36" x 36"	X		10BWG	1	SA	P	
		SW16-9P	AHEAD	24" x 12"	X						
159	15	S1-1	SCHOOL	36" x 36"	X		10BWG	1	SA	P	
		SW16-9P	AHEAD	24" x 12"	X						
160	16	R3-9b	TWO WAY LEFT TURN ONLY	24" x 36"	X		10BWG	1	SA	P	
160	17	R3-9b	TWO WAY LEFT TURN ONLY	24" x 36"	X		10BWG	1	SA	P	
160	18	S1-1	SCHOOL	36" x 36"	X		10BWG	1	SA	P	
		SW16-7P	DIAGONAL ARROW	24" x 12"	X						
160	19	S1-1	SCHOOL	36" x 36"	X		10BWG	1	SA	P	
		SW16-7P	DIAGONAL ARROW	24" x 12"	X						
160	20	S1-1	SCHOOL	36" x 36"	X		10BWG	1	SA	P	
		SW16-9P	AHEAD	24" x 12"	X						
160	21	S1-1	SCHOOL	36" x 36"	X		10BWG	1	SA	P	
		SW16-9P	AHEAD	24" x 12"	X						
160	22		ENTRANCE ONLY	18" x 12"	X		10BWG	1	SA	P	
160	23		ENTRANCE ONLY	18" x 12"	X		10BWG	1	SA	P	
160	24	R1-1	STOP	30" x 30"	X		10BWG	1	SA	P	
		R5-1a	WRONG WAY	30" x 18"	X						
160	25	R1-1	STOP	30" x 30"	X		10BWG	1	SA	P	
		R5-1a	WRONG WAY	30" x 18"	X						
		R5-1	DO NOT ENTER	30" x 30"	X						
161	26	R1-1	STOP	30" x 30"	X		10BWG	1	SA	P	
		R5-1	DO NOT ENTER	30" x 30"	X						
161	27	R3-9dp	END	30" x 12"	X						
		R3-9b	TWO WAY LEFT TURN ONLY	24" x 36"	X		10BWG	1	SA	P	
161	28	R3-9b	TWO WAY LEFT TURN ONLY	24" x 36"	X		10BWG	1	SA	P	
		R3-9cP	BEGIN	30" x 12"	X						
162	29	R4-7	KEEP RIGHT	24" x 30"	X		10BWG	1	SA	P	
162	30	W5-4a	PATH NARROWS	18" x 18"	X		10BWG	1	SA	P	
160	31	W5-4a	PATH NARROWS	18" x 18"	X		10BWG	1	SA	P	
160	32	W5-4a	PATH NARROWS	18" x 18"	X		10BWG	1	SA	P	
159	33	W5-4a	PATH NARROWS	18" x 18"	X		10BWG	1	SA	P	
159	34	W5-4a	PATH NARROWS	18" x 18"	X		10BWG	1	SA	P	

ALUMINUM SIGN BLANKS (TYPE A)

Square Ft.	Min. Thickness
Less than 7.5	0.080"
7.5 to 15	0.100"
Greater than 15	0.125"

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

SHEET 26 OF 273

SUMMARY OF SMALL SIGNS
SOSS

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REVISIONS
DN:-TxDOT 11-93 7-02
CK:-TxDOT 8-95 2-07
DW:-TxDOT 1-02 9-08
CK:-TxDOT

DIST	COUNTY	SECT	JOB	HIGHWAY
18		CONT		
		SHEET NO.		
26				

SP-2016-0186D

Williamson County, Texas

10/10/2017 6:54 AM

CITY OF AUSTIN RIGHT OF WAY MANAGEMENT STANDARD NOTES (11–13–2015)

1. FOR RIGHT OF WAY VIOLATIONS INCLUDING BUT NOT LIMITED TO WORKING WITHOUT A PERMIT OR AN EXPIRED PERMIT WITHIN THE CITY OF AUSTIN ROW AN INVESTIGATION FEE WILL BE ASSESSED FOR EACH OFFENSE UNTIL THE VIOLATION IS CORRECTED. FOLLOWING IS THE INVESTIGATION FEE SCHEDULE FOR VIOLATIONS OF PUBLIC SAFETY:

   a. NO OR EXPIRED PERMIT = EQUAL TO THE COST OF THE PERMIT
   b. VIOLATION OF PERMIT CONDITIONS, RESTRICTION LIMITS, TIMES AND LOCATIONS ON ROW PERMIT = $250
   c. IMPROPER ADVANCE WARNING SIGN = $250
   d. IMPROPER USE OF DEVICE = $250
   e. FAILURE TO CORRECT DEFICIENCY = $500
   f. RESTRICTING TRAFFIC DURING PEAK HOURS = EQUAL TO THE COST OF THE PERMIT
   g. MULTIPLE VIOLATIONS = UP TO A 4 DAY SUSPENSION OF WORK

2. CONTRACTORS AND THEIR SUBCONTRACTORS MUST BE LICENSED BY THE CITY OF AUSTIN FOR CONDUCTING WORK WITHIN THE RIGHT OF WAY.
3. CONTRACTOR MUST OBTAIN RIGHT OF WAY EXCAVATION PERMITS FROM RIGHT OF WAY MANAGEMENT DIVISION, FOR EACH STREET PRIOR TO COMMENCEMENT OF WORK. PLEASE CALL (512) 974–1150 FOR ADDITIONAL INFORMATION REGARDING PERMITTING PROCESS AND THE MOST CURRENT RIGHT OF WAY PERMITTING FEE SCHEDULE.
4. FOR WORK AT SIGNALIZED INTERSECTIONS CONTRACTOR MUST DIAL 311 OR (512) 974–2000 TO INITIATE A CITIZENS SERVICE REQUEST (CSR) FOR THE TRAFFIC SIGNALS GROUP; TO COORDINATE AND GAIN APPROVAL A MINIMUM OF 1 WEEK PRIOR TO CHANGE OF PROJECT LOCATION OR PHASE.
5. CONTRACTOR SHALL HAVE AN APPROVED RIGHT OF WAY PERMIT ON SITE AT ALL TIMES WHEN WORKING IN THE ROW.
6. CONTRACTOR MUST DIAL 311 OR (512) 974–2000 TO INITIATE A CITIZENS SERVICE REQUEST (CSR) FOR RIGHT OF WAY MANAGEMENT A MINIMUM OF 1 WEEK PRIOR TO START OF WORK.
7. CONTRACTOR MUST PROVIDE TRAINING CERTIFICATION OF COMPETENT PERSON THAT WILL BE RESPONSIBLE FOR THE TRAFFIC CONTROL PLACEMENT, TO RIGHT OF WAY INSPECTOR, PRIOR TO START OF WORK.
8. STORAGE OF EQUIPMENT AND/OR MATERIAL WITHIN THE ROW.

   a. STORAGE OF EQUIPMENT IN THE ROW IS PERMISSIBLE ONLY WITHIN THE CURRENT LIMITS OF LONG–TERM OR INTERMEDIATE–TERM CLOSURES AND SHALL BE LIMITED TO THE EQUIPMENT REQUIRED FOR THE CURRENT WORK ACTIVITY. THIS EQUIPMENT SHALL BE PROTECTED BEHIND BARRICADES.
   b. STORAGE OF MATERIAL IN THE ROW IS PERMISSIBLE ONLY WITHIN THE CURRENT LIMITS OF LONG–TERM OR INTERMEDIATE–TERM CLOSURES AND SHALL BE LIMITED TO NO MORE THAN THE MATERIAL REQUIRED FOR THREE DAYS OF PRODUCTION. THIS MATERIAL SHALL BE PROTECTED BEHIND WATER–FILLED BARRIER.
   c. EQUIPMENT OR MATERIAL STORED IN THE ROW SHALL NOT CREATE A VISUAL BARRIER TO TRAFFIC.

9. NO MORE THAN ONE WORK ZONE LOCATION MAY BE SET AT ONE TIME.
10. PEAK HOURS FOR ARTERIAL AND COLLECTOR STREETS ARE 6AM TO 9AM AND 4PM TO 6 PM, MONDAY THROUGH FRIDAY. NO DISRUPTION OR REDUCTION OF ACTIVE ROADWAY OR PEDESTRIAN ROUTE CAPACITY SHALL OCCUR DURING THESE TIMES, UNLESS ALLOWED BY TRAFFIC CONTROL PLAN.
11. EXCAVATIONS SHALL BE BACKFILLED OR PLATED WHEN REQUIRED TO OPEN IMPACTED TRAFFIC LANES. FOR EXCAVATIONS EXCEEDING A TRANSVERSE WIDTH OF 6 FEET, THE CONTRACTOR SHALL PROVIDE AN ENGINEERED PLATING PLAN TO THE OWNER'S REPRESENTATIVE FOR REVIEW BY RIGHT OF WAY MANAGEMENT DIVISION. PER 804S–4, 5 OF 9
12. EXISTING SIDEWALKS AND BEATEN PATHS SHALL BE MAINTAINED AS ADA COMPLIANT THROUGHOUT THE PROJECT DURATION WITH THE EXCEPTION OF FINAL FLATWORK AND UTILITY TIE– INS. ANY WORK OVERHEAD WITHIN 25 FEET OF EXISTING PEDESTRIAN PATHWAYS WILL REQUIRE PEDESTRIAN COVERED WALKWAYS. SIDEWALK CLOSURES FOR MAJOR SIDEWALK IMPROVEMENTS HAVE A 14–DAY MAXIMUM PERIOD AND SHALL BE COMPLETED IN PHASES AS TO NOT CLOSE MORE THAN ONE BLOCK AT A TIME.
13. ROAD WORK AHEAD" AND "CONSTRUCTION ENTRANCE AHEAD" SIGNS MUST BE PLACED AT ALL APPROACHES TO STABILIZED CONSTRUCTION ENTRANCE. SEE THE CITY OF AUSTIN STANDARD DETAILS FOR SIGN SPACING.
14. DRIVEWAYS SHALL NOT BE CLOSED FOR MORE THAN 3 CONSECUTIVE CALENDAR DAYS
15. ADA COMPLIANCE SHALL BE MAINTAINED THROUGH STABILIZED CONSTRUCTION ENTRANCE.
16. BARRIER SHALL BE PLACED WITHIN GUIDELINES SET FORTH BY THE TMUTCD CRASH TESTING REQUIREMENTS (NCHRP REPORT 350) FOR THAT PARTICULAR BARRIER USED. ANY MODIFICATIONS TO THAT TESTING APPLICATION SHALL BE APPROVED BY THE ENGINEER OF RECORD.
17. FOR OVERNIGHT PROTECTION OF WORK ZONES WITHIN THE ROW, REFER TO CITY OF AUSTIN STANDARD 804S–4 SERIES DETAILS.
18. ALL TEMPORARY PAVING SHALL CONFORM TO CITY OF AUSTIN STANDARD DETAIL 1100S–4.
19. INITIAL AND PHASE CHANGE TRAFFIC CONTROL CHANGES SHALL BE INSTALLED ON THE WEEKENDS.
20. THE NAME AND TELEPHONE NUMBER OF THE CONTRACTOR OR SUPPLIER SHALL BE SHOWN ON THE NON–REFLECTIVE SURFACE OF ALL CHANNELIZING DEVICES IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD 800 SERIES DETAILS.

COA STANDARD CONSTRUCTION SEQUENCE NOTES

THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE USED FOR ALL DEVELOPMENT. THE APPLICANT IS ENCOURAGED TO PROVIDE ANY ADDITIONAL DETAILS APPROPRIATE FOR THE PARTICULAR DEVELOPMENT.

1. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION AND INITIATE TREE MITIGATION MEASURES.
2. THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR MUST CONTACT THE WATERSHED PROTECTION DEPARTMENT, ENVIRONMENTAL INSPECTION, AT 512–974–2278, 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED ON–SITE PRECONSTRUCTION MEETING.
3. THE ENVIRONMENTAL PROJECT MANAGER, AND/OR SITE SUPERVISOR, AND/OR DESIGNATED RESPONSIBLE PARTY, AND THE GENERAL CONTRACTOR WILL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED, IF NEEDED, TO COMPLY WITH CITY INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION PLAN.
4. ROUGH GRADE THE POND(S) AT 100% PROPOSED CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A SUMP PIT OUTLET AND AN EMERGENCY SPILLWAY MEETING THE REQUIREMENTS OF THE DRAINAGE CRITERIA MANUAL AND/OR THE ENVIRONMENTAL CRITERIA MANUAL, AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT WATER QUALITY POND(S).
5. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.
6. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES.*
7. IN THE BARTON SPRINGS ZONE, THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR WILL SCHEDULE A MID–CONSTRUCTION CONFERENCE TO COORDINATE CHANGES IN THE CONSTRUCTION SCHEDULE AND EVALUATE EFFECTIVENESS OF THE EROSION CONTROL PLAN AFTER POSSIBLE CONSTRUCTION ALTERATIONS TO THE SITE. PARTICIPANTS SHALL INCLUDE THE CITY INSPECTOR, PROJECT ENGINEER, GENERAL CONTRACTOR AND ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR. THE ANTICIPATED COMPLETION DATE AND FINAL CONSTRUCTION SEQUENCE AND INSPECTION SCHEDULE WILL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR.
8. PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO/CONCURRENTLY WITH REVEGETATION OF SITE.
9. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.
10. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER'S LETTER OF CONCURRENCE TO THE WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION, IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.
11. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.
12. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM REMOVAL OF THE CONTROLS. CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS.

NOTES

***SEE CONSTRUCTION SEQUENCING THIS SHEET.**

CONSTRUCTION SEQUENCING

1. CALL ONE STOP SHOP, CONSTRUCTION INSPECTION, 48 HOURS PRIOR TO BEGINNING ANY WORK. CALL THE ONE CALL CENTER AT 472–2822, FOR UTILITY LOCATIONS AND OBTAIN PERMIT FOR ANY WORK WITHIN CITY OF AUSTIN R.O.W.
2. INSTALL TEMPORARY EROSION CONTROLS AND TREE PROTECTION FENCING PRIOR TO ANY CLEARING AND GRUBBING. NOTIFY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION (DPWT), CONSTRUCTION INSPECTION DIVISION, WHEN INSTALLED.
3. ROUGH–CUT ALL REQUIRED OR NECESSARY PONDS. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF ANY EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A LOW–LEVEL OUTLET AND AN EMERGENCY OVERFLOW MEETING THE REQUIREMENTS OF THE DRAINAGE CRITERIA MANUAL (SECTION 8.3) AND/OR THE ENVIRONMENTAL CRITERIA MANUAL (SECTION 1.4.2.K) AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL FINAL RESTORATION IS ACHIEVED.
4. DELIVER APPROVED ROUGH CUT SHEETS TO THE CONSTRUCTION INSPECTION DIVISION PRIOR TO CLEARING AND GRUBBING.
5. ROUGH GRADE STREETS. NO DEVELOPMENT OF EMBANKMENT WILL BE PERMITTED AT THIS TIME.
6. INSTALL ALL UTILITIES TO BE LOCATED UNDER THE PROPOSED PAVEMENT.
7. DELIVER STORM SEWER CUT SHEETS TO THE CONSTRUCTION INSPECTION DIVISION.
8. BEGIN INSTALLATION OF STORM SEWER LINES. UPON COMPLETION, RESTORE AS MUCH DISTURBED AREA AS POSSIBLE, PARTICULARLY CHANNELS AND LARGE OPEN AREAS.
9. DELIVER FINAL GRADE CUT SHEETS TO THE CONSTRUCTION INSPECTION DIVISION.
10. RE–GRADE STREETS TO SUB–GRADE.
11. LIME TREAT SUBGRADE.
12. ENSURE THAT ALL UNDERGROUND UTILITY CROSSINGS ARE COMPLETED. LAY FIRST COURSE BASE MATERIAL ON ALL STREETS.
13. LAY FINAL COURSE BASE MATERIAL ON ALL STREETS.
14. INSTALL CURB AND GUTTER.
15. LAY ASPHALT.
16. PLACE SEAL COAT.
17. INSTALL PERMANENT PAVEMENT MARKINGS AND MARKERS.
18. COMPLETE ALL UNDERGROUND INSTALLATIONS WITHIN THE R.O.W.
19. COMPLETE FINAL GRADING AND RESTORATION OF DETENTION, SEDIMENTATION / FILTRATION PONDS.
20. COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.
21. REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.
22. COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED BY ITEM 18.

STATE OF TEXAS
ADITYA W. JATAR
117288
LICENSED
PROFESSIONAL ENGINEER
8/8/2017

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

Stantec
221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-6324 TBPLS # F-10194230
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TCP – CONSTRUCTION NOTES I

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				26

SP-2016-0186D

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TRAFFIC CONTROL NARRATIVE

ALL TRAFFIC CONTROL SHALL FOLLOW CITY OF AUSTIN STANDARDS 804S1–S5 AND SHALL BE IN PLACE PRIOR TO BEGINNING OF WORK.

PHASE I:

TRAFFIC CONTROL FOR PHASE I ASSOCIATED WITH THE BUILDING OF NEW CURB INLETS AT STA. 17+00 AND STA. 27+00, EXTENDING MULTIPLE BARREL BOX CULVERT AT STA. 23+00, PERFORMING UTILITY ADJUSTMENTS, CONSTRUCTING WATER QUALITY POND/DETENTION POND IMPROVEMENTS, SHARED USE PATH AND DITCH ALONG NORTH SIDE OF NEENAH AVENUE FROM STA. 7+60 TO STA. 17+40 AND SHARED USE PATH ALONG SOUTH SIDE OF NEENAH AVENUE FROM STA. 17+70 TO STA. 30+00 IS DESCRIBED BELOW:

1. DELINEATE & INSTALL BARRIERS/CHANNELIZING DEVICES TO ISOLATE THE INLET WORK AREAS ALONG NEENAH AVENUE TO MAINTAIN ONE 10'–12' FOOT TRAVEL LANE FOR VEHICULAR TRAFFIC IN BOTH DIRECTIONS.
2. PROVIDE ADVANCE WARNING ALONG TRAVEL LANES PRIOR TO SHIFTING VEHICULAR TRAFFIC AROUND WORK AREA.
3. EXISTING WESTBOUND SHOULDER WILL BE CLOSED AND ADVANCE WARNING SHALL BE PROVIDED INFORMING CLOSURE OF SHOULDER.
4. TCP 1 PHASE I ADVANCE WARNING SIGNS SHALL REMAIN IN PLACE UNTIL COMPLETION OF WORK. (ALL PHASES). REMOVE TCP 2 PHASE I & TCP 3 PHASE I DEVICES BEFORE INSTALLATION OF PHASE II TRAFFIC CONTROL

PHASE II:

TRAFFIC CONTROL FOR PHASE I TO REMAIN FOR SHORT TERM WORK RELATED TO INSTALLATION OF CURB RAMPS AND TIE–IN TO NEW SHARED USE PATH AT SOUTHEAST CORNER OF ALTONA WAY, AND SOUTHEAST AND SOUTHWEST CORNERS OF SOLERA DRIVE.

1. PROVIDE ADVANCED WARNING SIGNS AND BARRIERS FOR PEDESTRIANS.

PHASE III:

TRAFFIC CONTROL FOR PHASE III ASSOCIATED WITH THE WORK RELATED TO THE INSTALLATION OF THE SHARED USE PATH AND DRAINAGE DITCH GRADING ALONG THE NORTH SIDE OF NEENAH AVENUE FROM STA. 17+70 TO STA. 26+00, ALONG THE SOUTH SIDE OF NEENAH AVENUE FROM STA. 26+40 TO STA. 40+00, AND TEMPORARY SIDEWALK CONNECTIONS AND CURB RAMPS AT STA. 35+30.

1. PROVIDE ADVANCED WARNING & DIRECTIONAL SIGNS AS WELL AS BARRIERS FOR PEDESTRIANS.

PHASE IV:

TRAFFIC CONTROL FOR PHASE IV ASSOCIATED WITH THE WORK PERFORMED DURING EXPANSION AND WIDENING OF THE SOUTH SEGMENT AND SHARED USE PATH OF FROM STA. 7+00 TO ALTONA WAY AND NORTH SHARED USE PATH FROM STA 26+00 TO END IS DESCRIBED BELOW:

145 FOOT OF MEDIAN SHALL BE REMOVED BETWEEN STA. 3+50 AND STA. 5+00 AND 10 INCHES TYPE B HMAC PLACED IN REMOVAL AREA TO ALLOW VEHICULAR TRAFFIC TRANSITION AND SHIFT TO NORTH HALF OF NEENAH AVENUE PRIOR TO BEGINNING PHASE IV. MEDIAN SHALL BE REINSTALLED AFTER PHASE VIII AND BEFORE FINAL WORK FOR NEENAH AVENUE WIDENING IS COMPLETED.

1. DELINEATE & INSTALL BARRIERS/CHANNELIZING DEVICES ALONG THE ENTIRE NORTHERN EDGE OF THE WORK AREA ESTABLISHED ALONG NEENAH AVENUE STARTING EAST OF THE INTERSECTION OF OLIVE HILL DRIVE/NEENAH AVENUE AND EXTENDING UP TO ALTONA WAY.
2. THE DELINEATION WILL BE LOCATED AT A DISTANCE OF 28 FEET FROM THE EDGE OF THE EXISTING NORTH CURB LINE ALONG NEENAH AVENUE TO MAINTAIN ONE 14 FOOT TRAVEL LANE FOR VEHICULAR TRAFFIC IN BOTH THE EASTBOUND AND WESTBOUND DIRECTIONS. CONTRACTOR SHALL COORDINATE WITH ADJACENT PROJECT FOR TRAFFIC LOCATION AT TIE–IN.
3. PROVIDE ADVANCE WARNING ALONG TRAVEL LANES PRIOR TO SHIFTING VEHICULAR TRAFFIC WITHIN WORK AREA. PROVIDE TEMPORARY STRIPING ALONG TRAVEL LANES TO MATCH NEW TEMPORARY LANE ALIGNMENT. CONTRACTOR TO COVER EXISTING PAVEMENT STRIPING BEFORE INSTALLING TEMPORARY STRIPING.
4. DURING PHASE IV, COMPLETE ACCESS FOR DRIVEWAY AT ALTONA WAY WILL BE MAINTAINED. DUE TO THE SHIFTING OF THE EASTBOUND TRAFFIC, THE STOP BAR AND STOP SIGN AT ALTONA WAY WILL BE TEMPORARILY RELOCATED UPSTREAM TO STOP VEHICLES EXITING DRIVEWAYS AT ALTONA WAY BEFORE THE SHIFTED EASTBOUND TRAFFIC FLOW.
5. PHASE IV SETUP SHALL BE IN PLACE FOR THE ENTIRE DURATION OF NEENAH AVENUE WIDENING BEGINNING APPROX BEFORE STA. 7+00. THE SHIFTING OF TRAFFIC WILL BE IN PLACE UNTIL THE WIDENING OF NEENAH AVENUE TO ALTONA WAY IS COMPLETED.

PHASE V:

TRAFFIC CONTROL FOR PHASE V ASSOCIATED WITH THE WORK PERFORMED DURING EXPANSION AND WIDENING OF THE SOUTH SEGMENT AND SHARED USE PATH OF NEENAH AVENUE FROM ALTONA WAY TO THE END OF NEENAH AVENUE IS DESCRIBED BELOW:

1. DELINEATE & INSTALL BARRIERS/CHANNELIZING DEVICES ALONG THE NORTHERN EDGE OF THE WORK AREA ESTABLISHED ALONG NEENAH AVENUE STARTING EAST OF THE INTERSECTION OF ALTONA WAY/NEENAH AVENUE AND EXTENDING ALL THE WAY TO THE CURRENT PROJECT OF NEENAH AVENUE.
2. THE DELINEATION WILL BE LOCATED AT A DISTANCE OF 28 FEET FROM THE EDGE OF THE EXISTING NORTH CURB LINE ALONG NEENAH AVENUE TO MAINTAIN ONE 14 FOOT TRAVEL LANE FOR VEHICULAR TRAFFIC IN BOTH THE EASTBOUND AND WESTBOUND DIRECTIONS. CONTRACTOR SHALL COORDINATE WITH ADJACENT PROJECT FOR TRAFFIC LOCATION AT TIE–IN.
3. PROVIDE ADVANCE WARNING ALONG TRAVEL LANES PRIOR TO SHIFTING VEHICULAR TRAFFIC WITHIN WORK AREA. PROVIDE TEMPORARY STRIPING ALONG TRAVEL LANES TO MATCH NEW TEMPORARY LANE ALIGNMENT. CONTRACTOR TO COVER EXISTING PAVEMENT STRIPING BEFORE INSTALLING TEMPORARY STRIPING.
4. DURING PHASE V, COMPLETE ACCESS FOR DRIVEWAYS AT ALTONA WAY AND SOLERA DRIVE WILL BE MAINATINED. DUE TO THE SHFTING OF THE EASTBOUND TRAFFIC, THE STOP BAR AND STOP SIGN AT ALTONA WAY AND SOLERA DRIVE WILL BE TEMPORARILY RELOCATED UPSTREAM TO STOP VEHICLES EXISTING DRIVEWAYS AT ALTONA WAY AND SOLERA DRIVE BEFORE THE SHIFTED EASTBOUND TRAFFIC FLOW.
5. PHASE V SETUP SHALL BE IN PLACE FOR THE ENTIRE DURATION OF NEENAH AVENUE WIDENING BEGINNING APPROX BEFORE STA. 17+00. THE SHIFTING OF TRAFFIC WILL BE PLACE UNTIL THE WIDENING OF NEENAH AVENUE WIDENING IS COMPLETED.

TRAFFIC CONTROL NARRATIVE (CONTINUED)

PHASE VI:

TRAFFIC CONTROL FOR PHASE VI ASSOCIATED WITH THE FULL DEPTH CONSTRUCTION AND MILL AND OVERLAY WORK REQUIRED TO BE DONE AT THE INTERSECTION OF ALTONA WAY/NEENAH AVENUE IS DESCRIBED BELOW:

1. CLOSE THE INTERSECTION AT ALTONA WAY/NEENAH AVENUE.
2. DETOUR TRAFFIC ENTERING THIS INTERSECTION TO PREVIOUS INTERSECTION OF OLIVE HILL DRIVE/NEENAH AVENUE.
3. PROVIDE ADVANCE WARNING TO RESIDENTIAL TRAFFIC ACCESSING THIS INTERSECTION ABOUT CLOSURE AT THE INTERSECTION AND RELATED DETOUR.
4. REMOVE PHASE VI TCP DEVICES BEFORE INSTALLATION OF PHASE VII TRAFFIC CONTROL.

PHASE VII:

TRAFFIC CONTROL FOR PHASE VII IS ASSOCIATED WITH THE FULL DEPTH CONSTRUCTION, AND MILL AND OVERLAY WORK REQUIRED TO BE DONE AT THE INTERSECTION OF SOLERA DRIVE/NEENAH AVENUE IS DESCRIBED BELOW:

1. CLOSE WEST HALF OF THE INTERSECTION AT SOLERA DRIVE/NEENAH AVENUE.
2. SET–UP 3–WAY FLAGGING OPERATION AT THE EAST END OF THE INTERSECTION THAT REMAINS OPEN TO ALLOW INGRESS/EGRESS OF VEHICULAR TRAFFIC NEEDING ACCESS TO SOLERA DRIVE DAYTIME OPERATION ONLY.
3. PROVIDE ADVANCE WARNING TO RESIDENTIAL TRAFFIC ACCESSING THIS INTERSECTION ABOUT CLOSURE AT THE INTERSECTION AND RELATED FLAGGING OPERATION.
4. REMOVE PHASE VII TCP DEVICES AND INSTALL PHASE VIII DEVICES.

PHASE VIII:

TRAFFIC CONTROL FOR PHASE VIII IS ASSOCIATED WITH THE THE FULL DEPTH CONSTRUCTION, AND MILL AND OVERLAY WORK REQUIRED TO BE DONE AT THE INTERSECTION OF SOLERA DRIVE/NEENAH AVENUE IS DESCRIBED BELOW:

1. CLOSE WEST HALF OF THE INTERSECTION AT SOLERA DRIVE/NEENAH AVENUE.
2. SET–UP 3–WAY FLAGGING OPERATION AT THE WEST END OF THE INTERSECTION THAT REMAINS OPEN TO ALLOW INGRESS/EGRESS OF VEHICULAR TRAFFIC NEEDING ACCESS TO SOLERA DRIVE DAYTIME OPERATION ONLY.
3. PROVIDE ADVANCE WARNING TO RESIDENTIAL TRAFFIC ACCESSING THIS INTERSECTION ABOUT CLOSURE AT THE INTERSECTION AND RELATED FLAGGING OPERATION.
4. REMOVE PHASE VIII TCP DEVICES.

DRIVEWAY NOTES (REFER TO SHEETS 32 & 35)

1. CONTRACTOR TO COORDINATE WITH ST. VINCENT DE PAUL CATHOLIC CHURCH MANAGEMENT TO ENSURE THAT BOTH DRIVEWAYS TO THE CHURCH REMAIN OPEN DURING MAJOR CHURCH SERVICE HOURS ON WEEKENDS. DURING WEEKDAYS; CONTRACTOR TO COORDINATE WITH CHURCH MANAGEMENT TO ENSURE THAT ONE OF THE TWO CHURCH DRIVEWAYS REMAIN OPEN TO PROVIDE ACCESS.
2. CONTRACTOR TO COORDINATE WITH HOLY FAMILY CATHOLIC SCHOOL AND ST. DOMINIC CATHOLIC HIGH SCHOOL TO ENSURE THAT SCHOOL DRIVEWAYS TO REMAIN OPEN BETWEEN THE HOURS OF 5:00AM–8:00AM AND 3:00PM – 5:00PM DURING WEEKDAYS ALLOWING PICK UP AND DROP–OFF OF SCHOOL STUDENTS AND STAFF ENTRY–EXIT.

PEDESTRIAN NOTES

DURING EACH PHASE OF CONSTRUCTION PEDESTRIANS WILL UTILIZE THE EXISTING SIDEWALKS, PROPOSED SHARED USE PATHS, OR A COMBINATION OF BOTH AND EXISTING AND TEMPORARY CROSSWALKS TO NAVIGATE NEENAH AVENUE AS OUTLINED BELOW BY PHASE. CONTRACTOR SHALL INSTALL PEDESTRIAN TRAFFIC CONTROL DEVICES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.

PHASE I:

DURING CONSTRUCTION OF THE NORTH SHARED USE PATH FROM STA. 7+70 TO STA. 17+20, THE EXISTING NORTH SIDEWALK WILL BE CLOSED FROM STA. 7+00 AND 17+20.

1. PEDESTRIANS HEADING EAST ALONG THE NORTH EXISTING SIDEWALK WILL BE DETOURED TO THE SOUTH EXISTING SIDEWALK UTILIZING A TEMPORARY CROSSWALK WEST OF OLIVE HILL DRIVE.
2. PEDESTRIANS HEADING WEST ALONG THE NORTH EXISTING SIDEWALK WILL BE DETOURED TO THE SOUTH EXISTING SIDEWALK UTILIZING A TEMPORARY CROSSWALK EAST OF THE ST. VINCENT DE PAUL CATHOLIC CHURCH DRIVEWAY.

DURING CONSTRUCTION OF THE SOUTH SHARED USE PATH FROM STA. 17+80 TO STA. 20+50 AND STA. 21+00 TO STA. 26+50, PEDESTRIANS WILL UTILIZE THE EXISTING SOUTH SIDEWALK.

PHASE II:

DURING CONSTRUCTION OF TEMPORARY SIDEWALK CONNECTIONS BETWEEN THE SOUTH EXISTING SIDEWALK AND PROPOSED SHARED USE PATH AT STA. 18+00, STA. 20+50, STA. 21+00, AND STA. 26+00, THE EXISTING SOUTH SIDEWALK WILL BE CLOSED FROM STA. 17+90 TO STA. 25+90.

1. PEDESTRIANS HEADING EAST ALONG THE SOUTH EXISTING SIDEWALK WILL BE DETOURED TO THE NORTH EXISTING SIDEWALK UTILIZING A TEMPORARY CROSSWALK AT STA. 17+00.
2. PEDESTRIANS HEADING WEST ALONG THE SOUTH EXISTING SIDEWALK WILL BE DETOURED TO THE NORTH EXISTING SIDEWALK UTILIZING THE EXISTING CROSSWALK AT STA. 26+00.

PEDESTRIAN NOTES (CONTINUED)

PHASE III:

DURING CONSTRUCTION OF THE NORTH SHARED USE PATH FROM STA. 17+80 TO STA. 25+90 AND THE SOUTH SHARED USE PATH FROM STA. 26+50 TO STA. 40+00, THE EXISTING NORTH SIDEWALK WILL BE CLOSED FROM STA. 17+10 TO STA. 26+20 AND THE EXISTING SOUTH SIDEWALK WILL BE CLOSED FROM STA. 26+25 TO STA. 35+00.

1. PEDESTRIANS HEADING EAST ALONG THE NORTH EXISTING SIDEWALK WILL BE DETOURED TO THE PROPOSED SOUTH SHARED USE PATH (CONSTRUCTED IN PHASE I) UTILIZING A TEMPORARY CROSSWALK AT STA. 17+00.
2. PEDESTRIANS HEADING WEST ALONG THE NORTH EXISTING SIDEWALK WILL BE DETOURED TO THE PROPOSED SOUTH SHARED USE PATH (CONSTRUCTED IN PHASE I) UTILIZING A TEMPORARY CROSSWALK AT STA. 26+00.
3. PEDESTRIANS HEADING EAST ALONG THE NORTH EXISTING SIDEWALK WILL BE DETOURED TO THE NORTH EXISTING SIDEWALK UTILIZING A TEMPORARY CROSSWALK AT STA. 26+00.

PEDESTRIAN NOTES (CONTINUED)

PHASE IV:

DURING THE CONSTRUCTION OF THE NEENAH AVENUE WIDENING AND THE SOUTH SHARED USE PATH FROM STA. 6+90 TO STA. 17+20 AND THE NORTH SHARED USE PATH FROM STA. 25+90 TO STA. 35+20, THE EXISTING SOUTH SIDEWALK WILL BE CLOSED FROM STA. 5+90 TO STA. 17+90 AND THE NORTH EXISTING SIDEWALK WILL BE CLOSED FROM STA. 25+90 TO STA. 35+20..

1. PEDESTRIANS HEADING EAST ALONG THE SOUTH EXISTING SIDEWALK WILL BE DETOURED TO THE NORTH EXISTING SIDEWALK AND PROPOSED NORTH SHARED USE PATH (CONSTRUCTED IN PHASE I) UTILIZING A TEMPORARY CROSSWALK AT STA. 5+00.
2. PEDESTRIANS HEADING WEST ALONG THE SOUTH PROPOSED SHARED USE PATH (CONSTRUCTED IN PHASE I) WILL BE DETOURED TO THE NORHT PROPOSED SHARED USE PATH (CONSTRUCTED IN PHASE I) UTILIZING A TEMPORARY CROSSWALK AT STA. 18+00.
3. PEDESTRIANS HEADING EAST ALONG THE NORTH PROPOSED SHARED USE PATH (CONSTRUCTED IN PHASE III) WILL BE DETOURED TO THE SOUTH PROPOSED SHARED USE PATH (CONSTRUCTED IN PHASES I & III) UTILIZING A TEMPORARY CROSSWALK AT STA. 25+90.
4. PEDESTRIANS HEADING WEST ALONG THE EXISTING NORTH SIDEWALK WILL BE DETOURED TO THE PROPOSED SOUTH SHARED USE PATH (CONSTRUCTED IN PHASE III) UTILIZING A TEMPORARY CROSSWALK AT STA. 35+30.

PHASE V:

DURING CONSTRUCTION OF THE NEENAH AVENUE WIDENING FROM STA. 17+80 TO STA. 35+20 THE EXISTING SOUTH SIDEWALK AND PROPOSED SOUTH SHARED USE PATH (CONSTRUCTED IN PHASES I & III) WILL BE CLOSED FROM STA. 17+10 TO STA. 35+20.

1. PEDESTRIANS HEADING EAST ALONG THE SOUTH PROPOSED SHARED USE PATH (CONSTRUCTED IN PHASE IV) WILL BE DETOURED TO THE NORTH PROPOSED SHARED USE PATH (CONSTRUCTED IN PHASES III & IV) UTILIZING A TEMPORARY CROSSWALK AT STA. 17+00.
2. PEDESTRIANS HEADING WEST ALONG SOUTH PROPOSED SHARED USE PATH (CONSTRUCTED IN PHASES I & III) WILL BE DETOURED TO THE NORTH PROPOSED SHARED USE PATH (CONSTRUCTED IN PHASES III & IV) UTILIZING A TEMPORARY CROSSALK AT STA. 35+30.

PHASE VI:

DURING THE CONSTRUCTION OF THE ALTONA WAY INTERSECTION PEDESTRIANS ON THE SOUTH PROPOSED SHARED USE PATH WILL UTILIZE TEMPORARY CROSSWALKS AT STA. 17+00 AND STA. 18+00 TO CROSS NEENAH AVENUE AND THE ST. VINCENT DE PAUL CATHOLIC CHURCH DRIVEWAY.

PHASE VII:

DURING THE CONSTRUCTION OF THE EASTERN HALF OF THE SOLERA DRIVE INTERSECTION PEDESTRIANS ON THE SOUTH PROPOSED SHARED USE PATH WILL UTILIZE TEMPORARY CROSSWALKS AT STA. 18+00 AND STA. 26+00 TO CROSS NEENAH AVENUE CONTINUE ALONG THE NORTH PROPOSED SHARED USE PATH.

PHASE VIII:

DURING THE CONSTRUCTION OF THE WESTERN HALF OF THE SOLERA DRIVE INTERSECTION PEDESTRIANS ON THE SOUTH PROPOSED SHARED USE PATH WILL UTILIZE TEMPORARY CROSSWALKS AT STA. 18+00 AND STA. 26+00 TO CROSS NEENAH AVENUE CONTINUE ALONG THE NORTH PROPOSED SHARED USE PATH.

GENERAL NOTES:

1. PAVEMENT MARKING FOR PROPOSED NEENAH AVE. EXTENSION APPROXIMATELY EAST OF STATION 36+00 SHALL BE DONE DURING OFF–PEAK HOURS BETWEEN 10:00 AM–3:00 PM DURING WEEKDAYS OR DURING NIGHT TIME HOURS FROM 10:00 PM–5:00 AM WEEKDAYS. APPROPRIATE FLASHER VEHICLES, ADVANCE WARNING NOTIFICATION AND SUITABLE TRAFFIC CONTROL DEVICES SHALL BE USED BY CONTRACTOR WHEN INSTALLING PROPOSED PAVEMENT MARKINGS. CONTRACTOR TO ENSURE THAT ALL APPROPRIATE SAFETY MEASURES ARE PUT IN PLACE DURING PROPOSED MARKING INSTALLATION TO MINIMIZE INCONVENIENCE TO NEIGHBORHOOD VEHICULAR TRAFFIC.

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NEENAH AVENUE WIDENING

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TCP – CONSTRUCTION NOTES II

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6	TEXAS	104023–10006	_	14	WILLIAMSON				27

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BARRICADING SUMMARY (STREETS)									
STREET	**CLASSIFICATION**	PROTECTION	FROM STREET	TO STREET	PLANNED IMPROVEMENTS	TRAFFIC CONTROL PLAN SHEET/DETAIL	ALLOWED BARRICADING TIMES	DURATION OF CLOSURE	COMMENTS
Neenah Avenue	Collector	10 YEAR	Calaveras Drive	Pearson Ranch Road	Shared Use Path (SUP) Work	PHASE I	9am–4pm Mon–Fri; 7am–7pm Weekends	LONG TERM	NA
Neenah Avenue	Collector	10 YEAR	Calaveras Drive	Pearson Ranch Road	Curb Ramp Connection to SUP	PHASE II	9am–4pm Mon–Fri; 7am–7pm Weekends	LONG TERM	NA
Neenah Avenue	Collector	10 YEAR	Calaveras Drive	Pearson Ranch Road	SUP Work + Ditch	PHASE III	9am–4pm Mon–Fri; 7am–7pm Weekends	LONG TERM	NA
Neenah Avenue	Collector	10 YEAR	Calaveras Drive	Pearson Ranch Road	Roadway Widening + North SUP	PHASE IV	9am–4pm Mon–Fri; 7am–7pm Weekends	LONG TERM	NA
Neenah Avenue	Collector	10 YEAR	Calaveras Drive	Pearson Ranch Road	Roadway Widening	PHASE V	9am–4pm Mon–Fri; 7am–7pm Weekends	LONG TERM	NA

BARRICADING SUMMARY (INTERSECTIONS)					
M	PLANNED IMPROVEMENTS	TRAFFIC CONTROL PLAN SHEET/DETAIL	ALLOWED BARRICADING TIMES	DURATION OF CLOSURE	COMMENTS
Neenah Ave/Altona Way	Phase VI (Driveway Work)	PHASE VI	9am–4pm Mon–Fri; 7am–7pm Weekends	LONG TERM	NA
Neenah Ave/Solera Drive	Phase VII & VIII Construction (Driveway Work)	PHASE VIi/VIII	9am–4pm Mon–Fri; 7am–7pm Weekends	LONG TERM	NA

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TCP – CONSTRUCTION NOTES III

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6	TEXAS	104023–10006	_	14	WILLIAMSON				28

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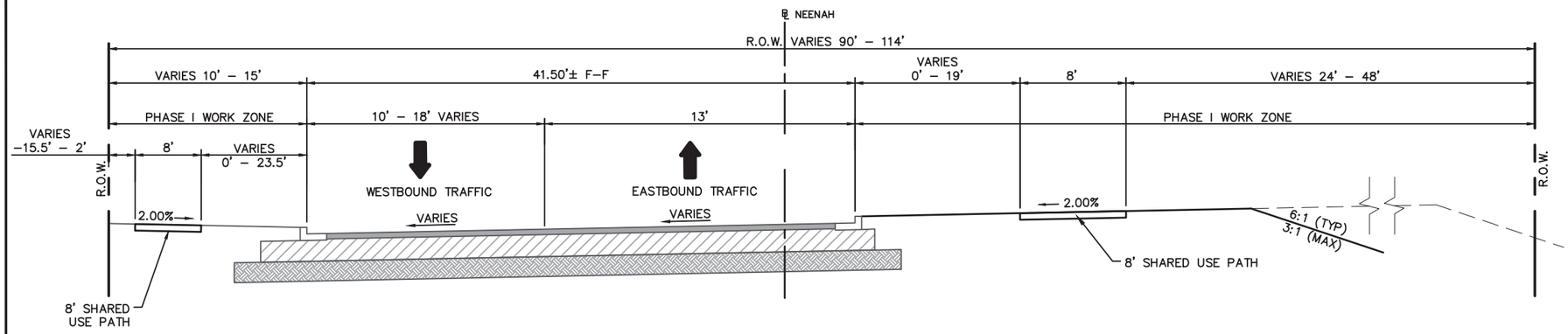
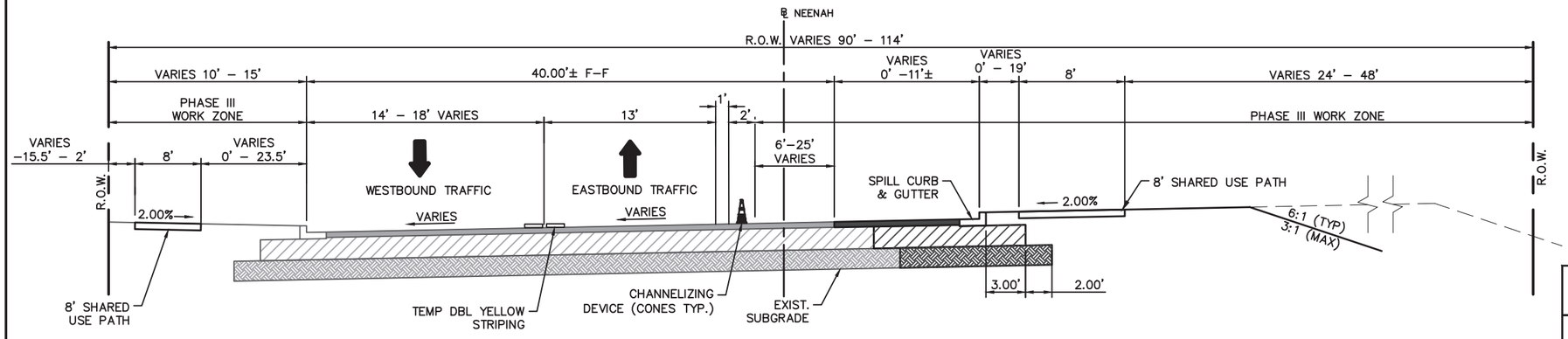


NEENAH AVENUE WIDENING
TRAFFIC CONTROL PLAN
TYPICAL SECTION PHASE I
STA. 17+70 TO STA. 30+00 (RT)
STA. 7+60 TO STA. 30+00 (LT)
N.T.S.



NEENAH AVENUE WIDENING
TRAFFIC CONTROL PLAN
TYPICAL SECTION PHASE III
STA. 26+00 TO STA. 40+00 (RT)
STA. 17+70 TO STA. 26+00 (LT)
N.T.S.

NOTES

1. SEE CITY OF AUSTIN STANDARD NO 804S–3 FOR TEMPORARY PAVEMENT MARKING DETAILS.
2. SEE TRAFFIC CONTROL NARRATIVE (SHEET 27) FOR ADDITIONAL INFORMATION.
3. SEE PEDESTRIAN NOTES (SHEET 27) FOR ADDITIONAL INFORMATION.

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TCP–TYPICAL SECTIONS
PHASE I & PHASE III

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6	TEXAS	104023–10006	_	14	WILLIAMSON				29

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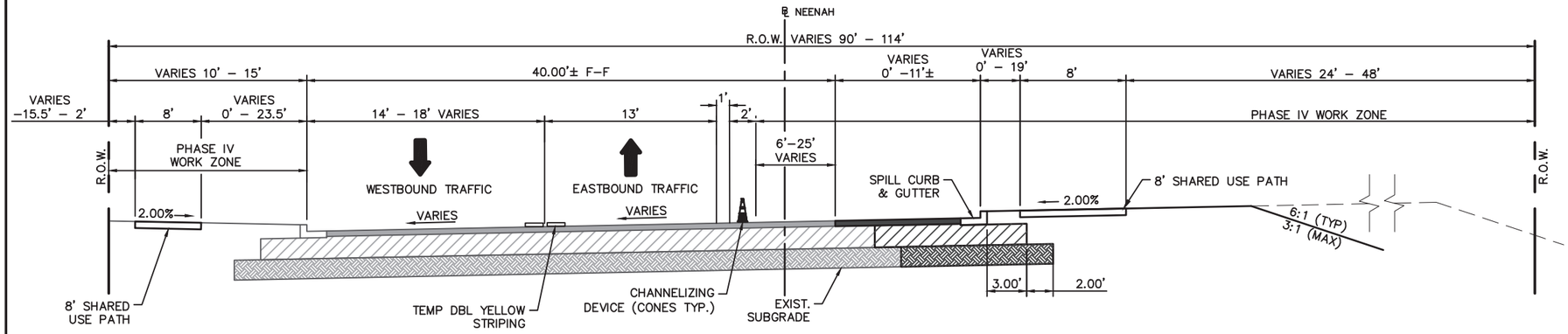
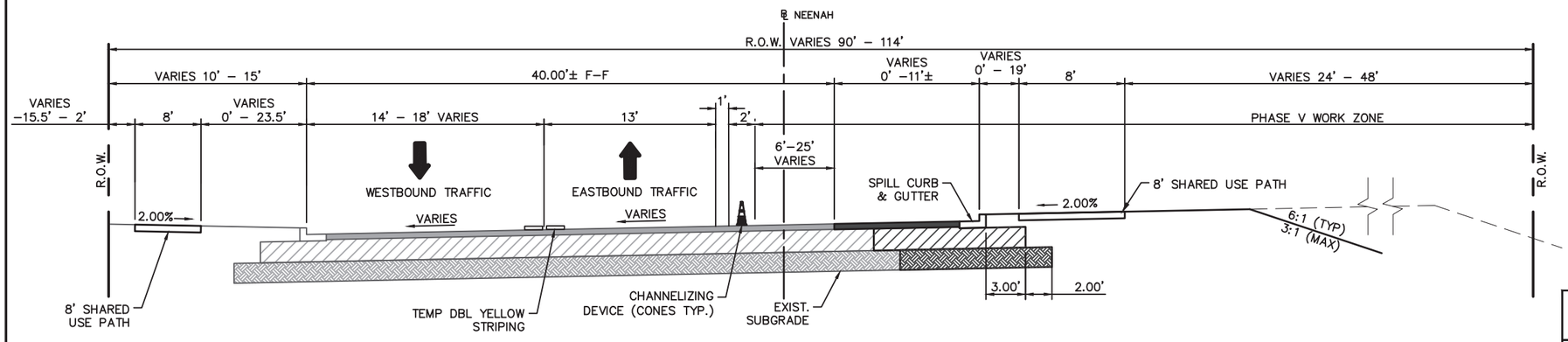


NEENAH AVENUE WIDENING
TRAFFIC CONTROL PLAN
TYPICAL SECTION PHASE IV
STA. 6+90 TO STA. 17+20 (RT)
STA. 26+00 TO STA. 34+30 (LT)
N.T.S.



NEENAH AVENUE WIDENING
TRAFFIC CONTROL PLAN
TYPICAL SECTION PHASE V
STA. 17+20 TO STA. 35+30 (RT)
N.T.S.

NOTES

1. SEE CITY OF AUSTIN STANDARD NO 804S–3 FOR TEMPORARY PAVEMENT MARKING DETAILS.
2. SEE TRAFFIC CONTROL NARRATIVE (SHEET 27) FOR ADDITIONAL INFORMATION.
3. SEE PEDESTRIAN NOTES (SHEET 27) FOR ADDITIONAL INFORMATION.

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TCP–TYPICAL SECTIONS
PHASE IV & PHASE V

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6	TEXAS	104023–10006	_	14	WILLIAMSON				30

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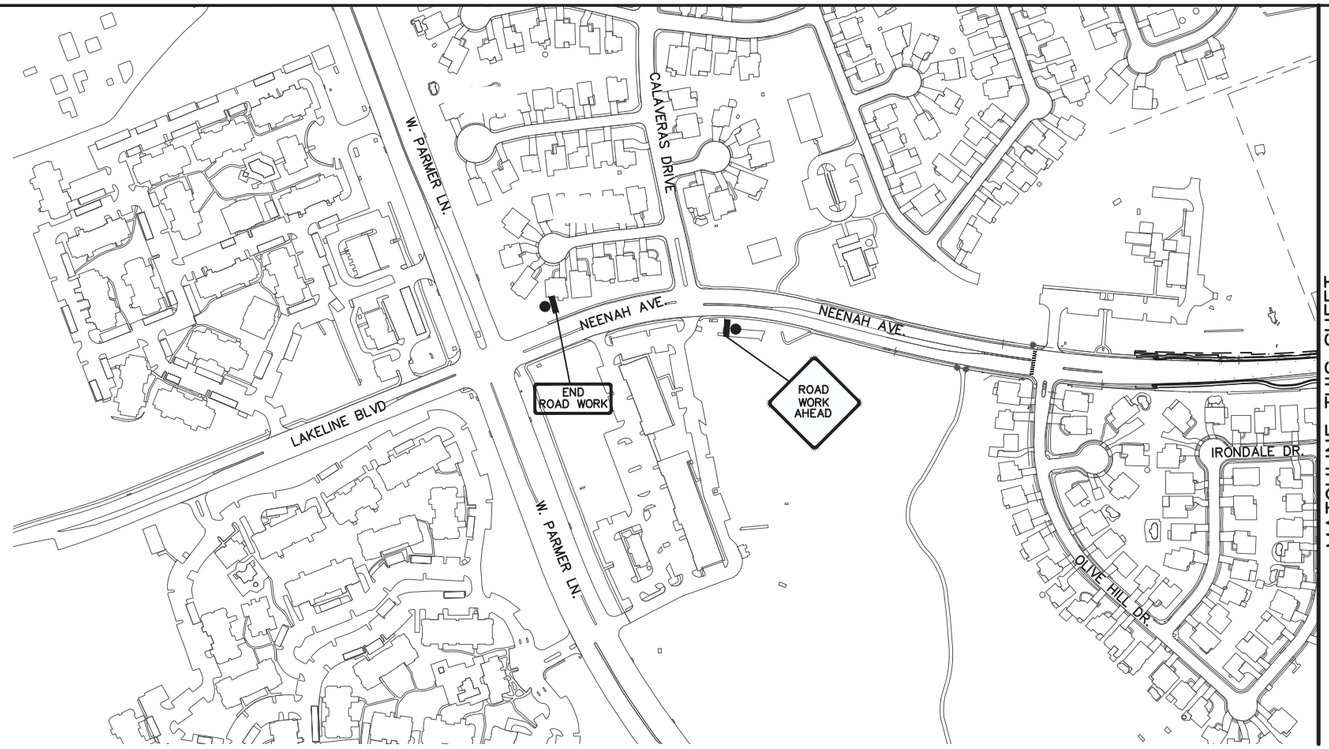

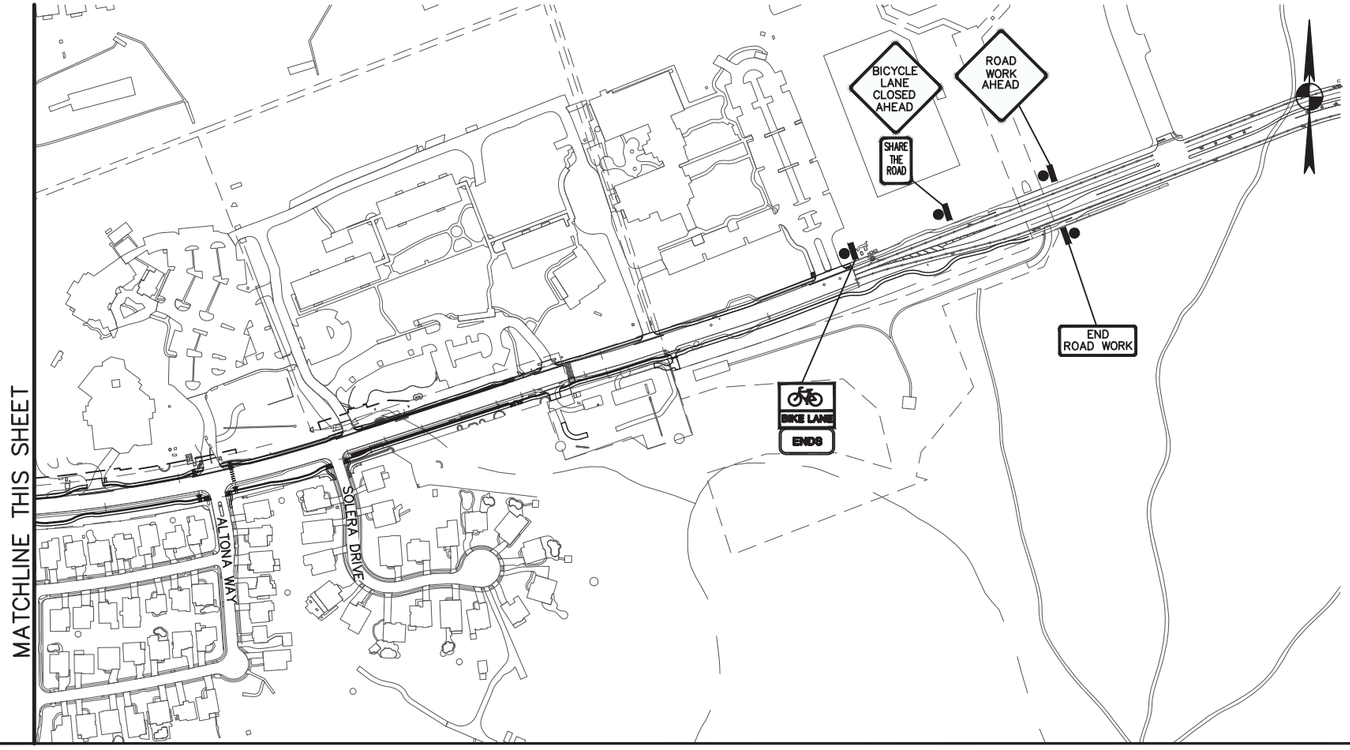

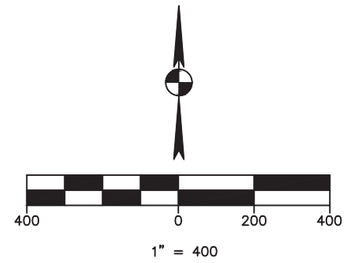

LEGEND

SIGNS

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S–1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S–5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
3. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.

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TCP 1 PHASE I ADVANCE WARNING SIGNS

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6	TEXAS	104023–10006	_	14	WILLIAMSON				31

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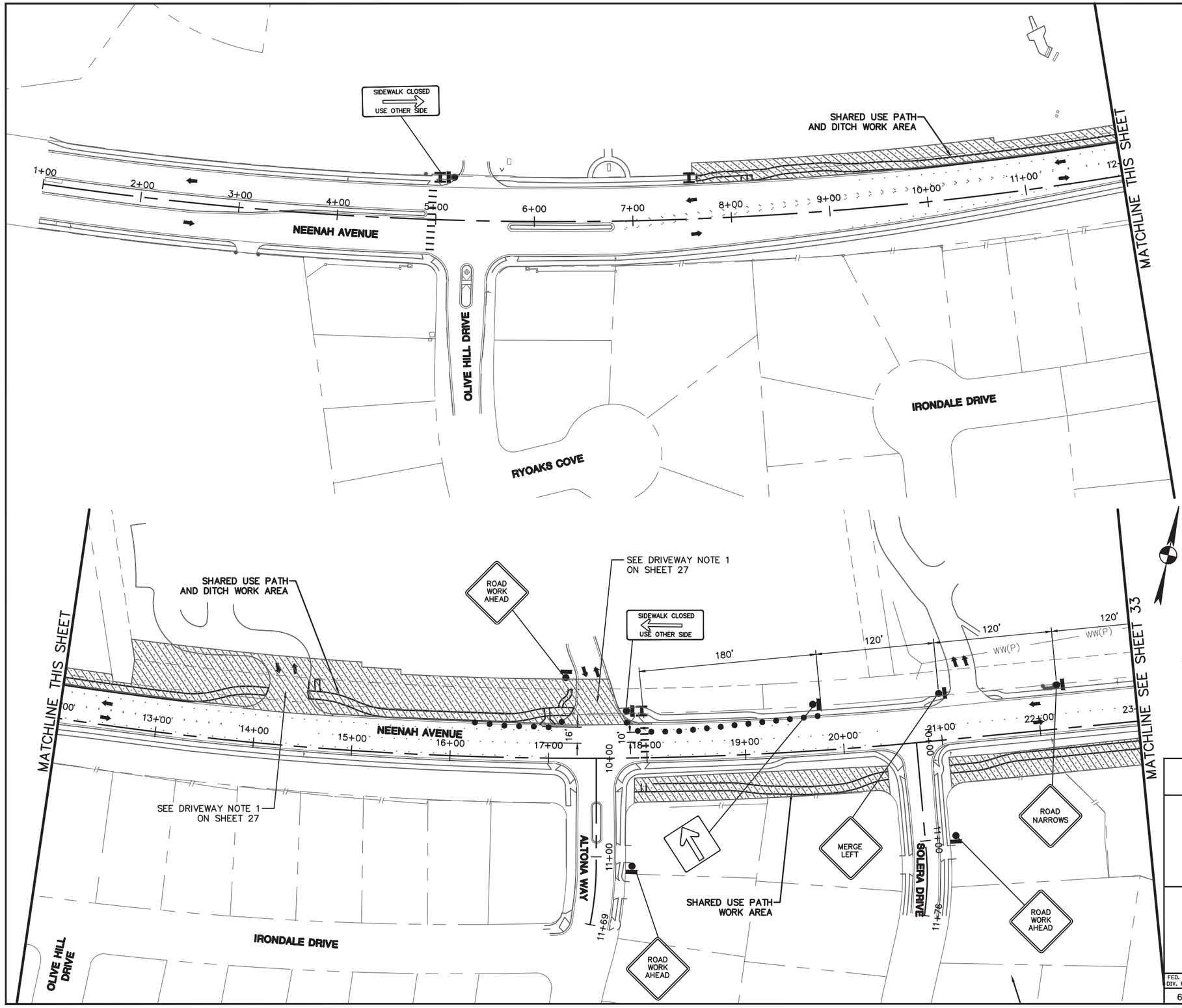

100 0 50 100

1" = 100'

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- SHARED USE PATH & DITCH WORK AREA (PHASE I)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S-1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S-5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH.
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.
5. CONTRACTOR TO INSTALL TEMPORARY CROSSWALKS AS SHOWN ON PLANS IN ACCORDANCE WITH RESPECTIVE PHASE.

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TCP 2 PHASE I

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6	TEXAS	104023-10006	_	14	WILLIAMSON				32

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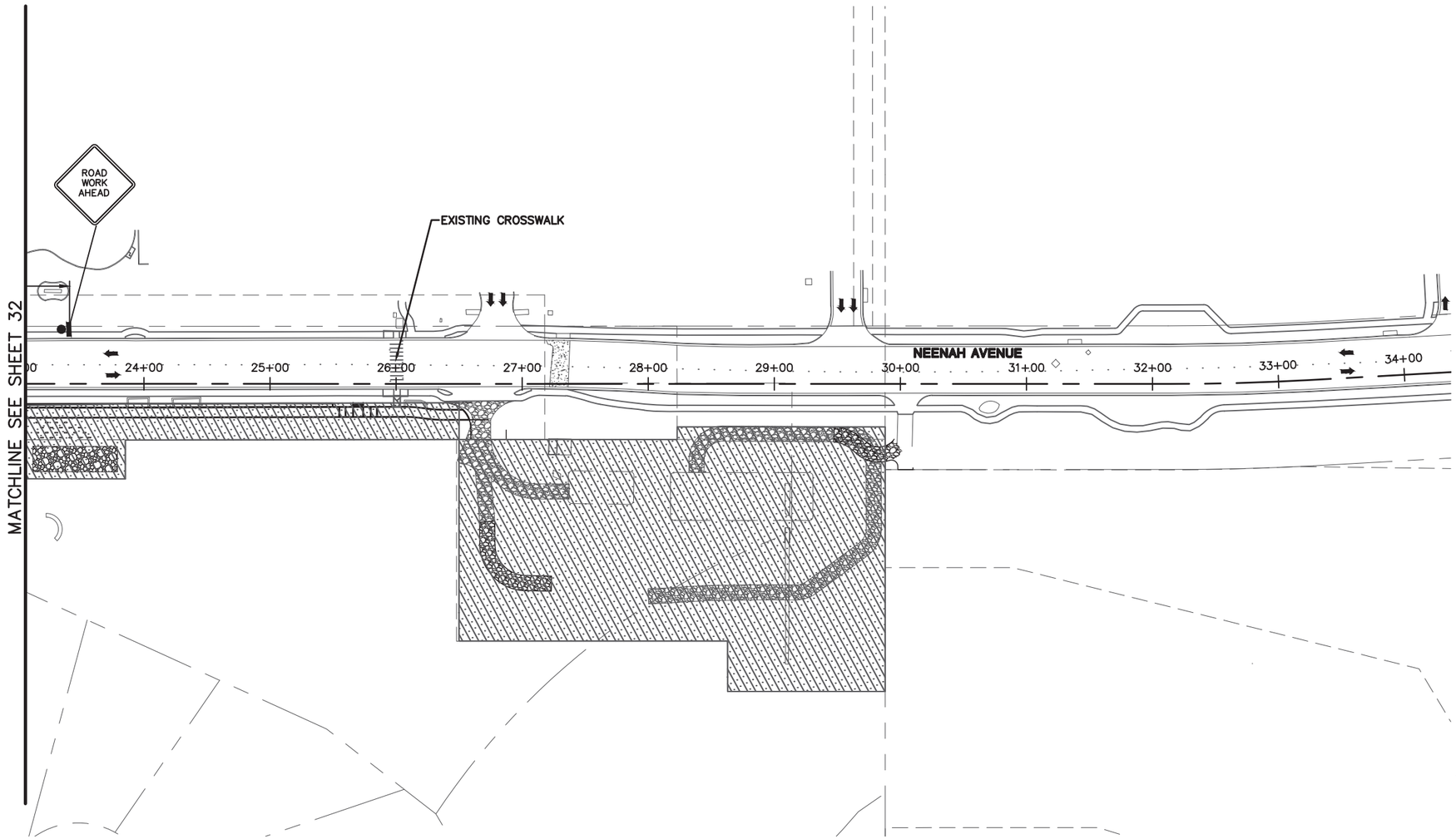
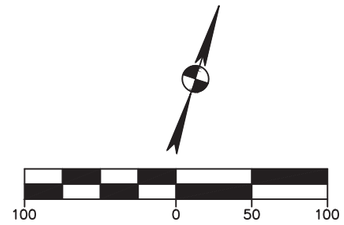


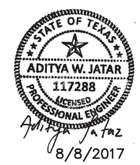


LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- SHARED USE PATH DITCH WORK AREA (PHASE I)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S–1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S–5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH.
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.



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TCP 3 PHASE I

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				33

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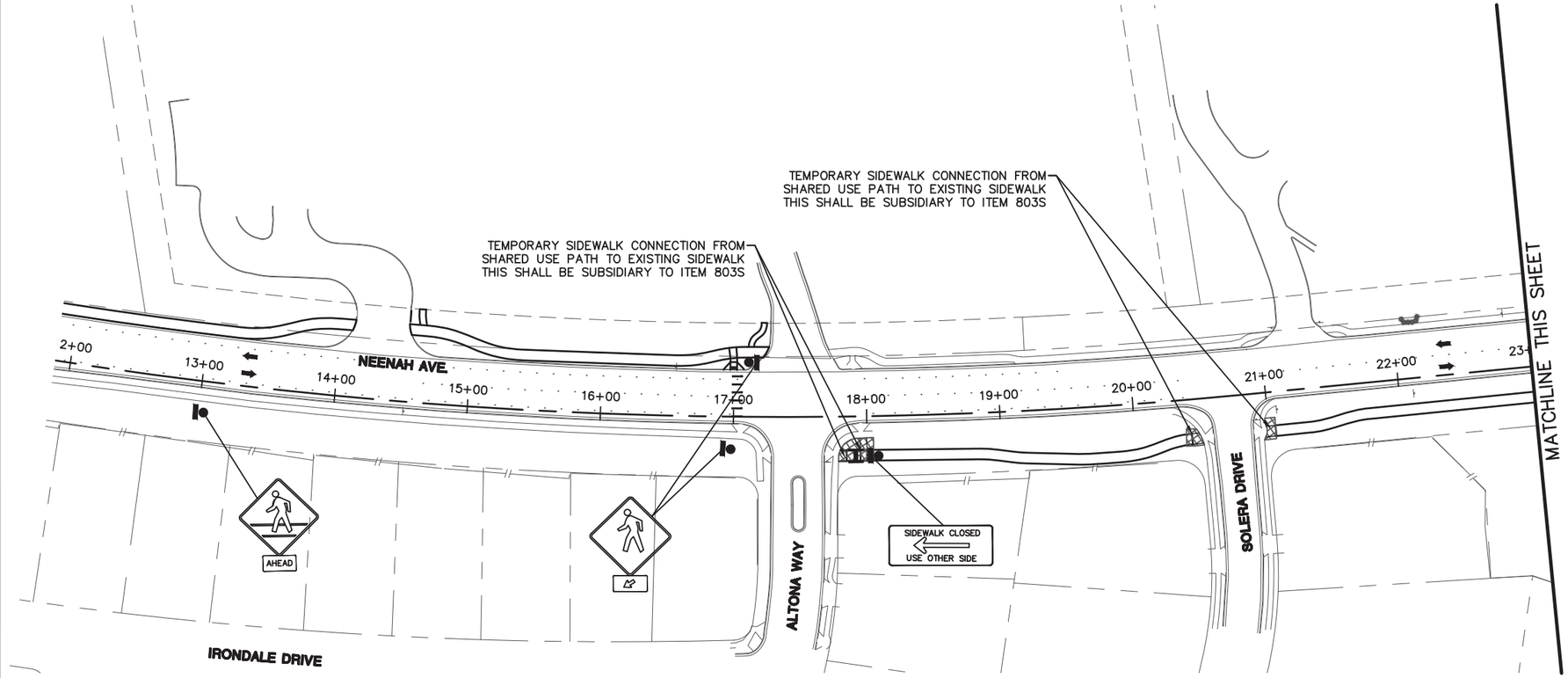

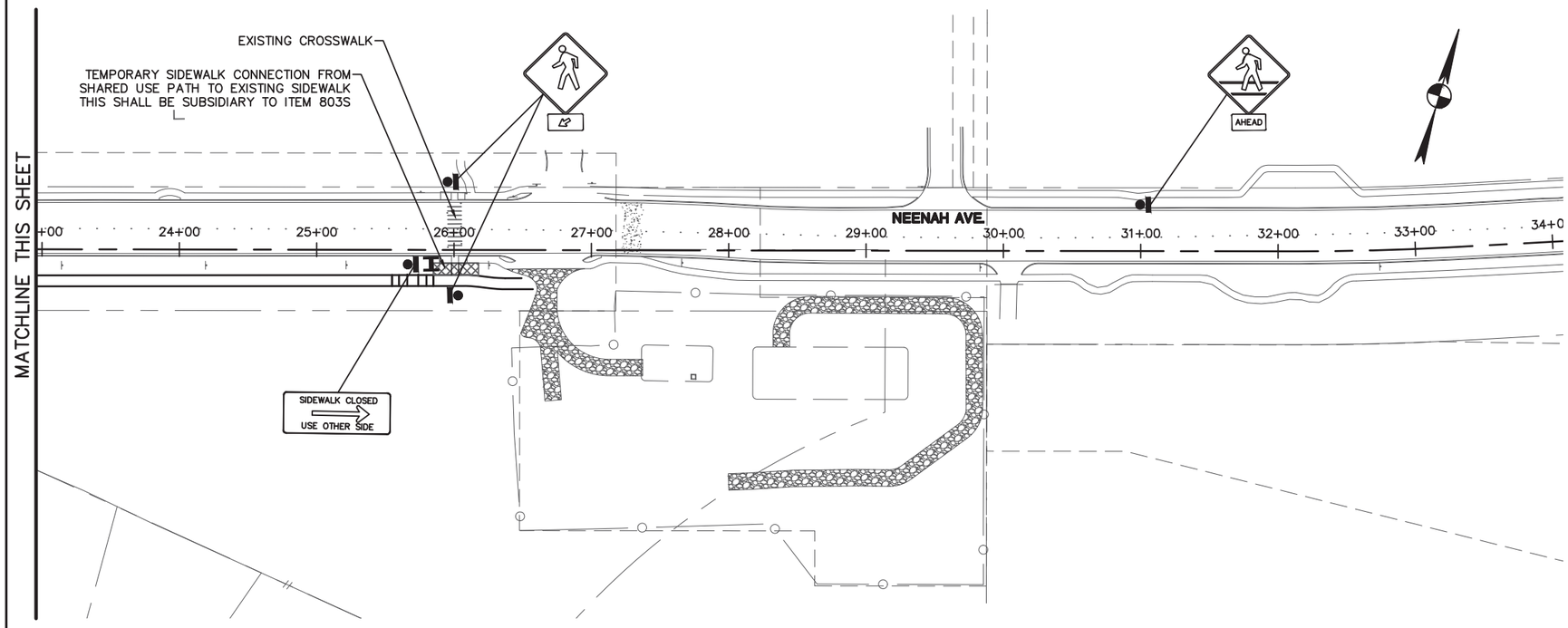

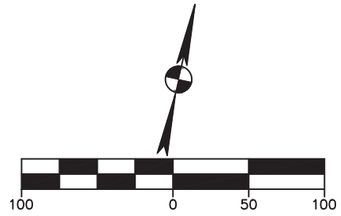

1" = 100'

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- PROPOSED TEMPORARY STRIPING
- TEMPORARY SIDEWALK CONNECTION (PHASE II)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S–1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S–5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.
5. TEMPORARY SIDEWALK CONNECTION SHALL BE A MAXIMUM OF 4.5% RUNNNG SLOPE AND 1.5% CROSS SLOPE.
5. CONTRACTOR TO INSTALL TEMPORARY CROSSWALKS AS SHOWN ON PLANS IN ACCORDANCE WITH RESPECTIVE PHASE.

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TCP 4 PHASE II

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				34

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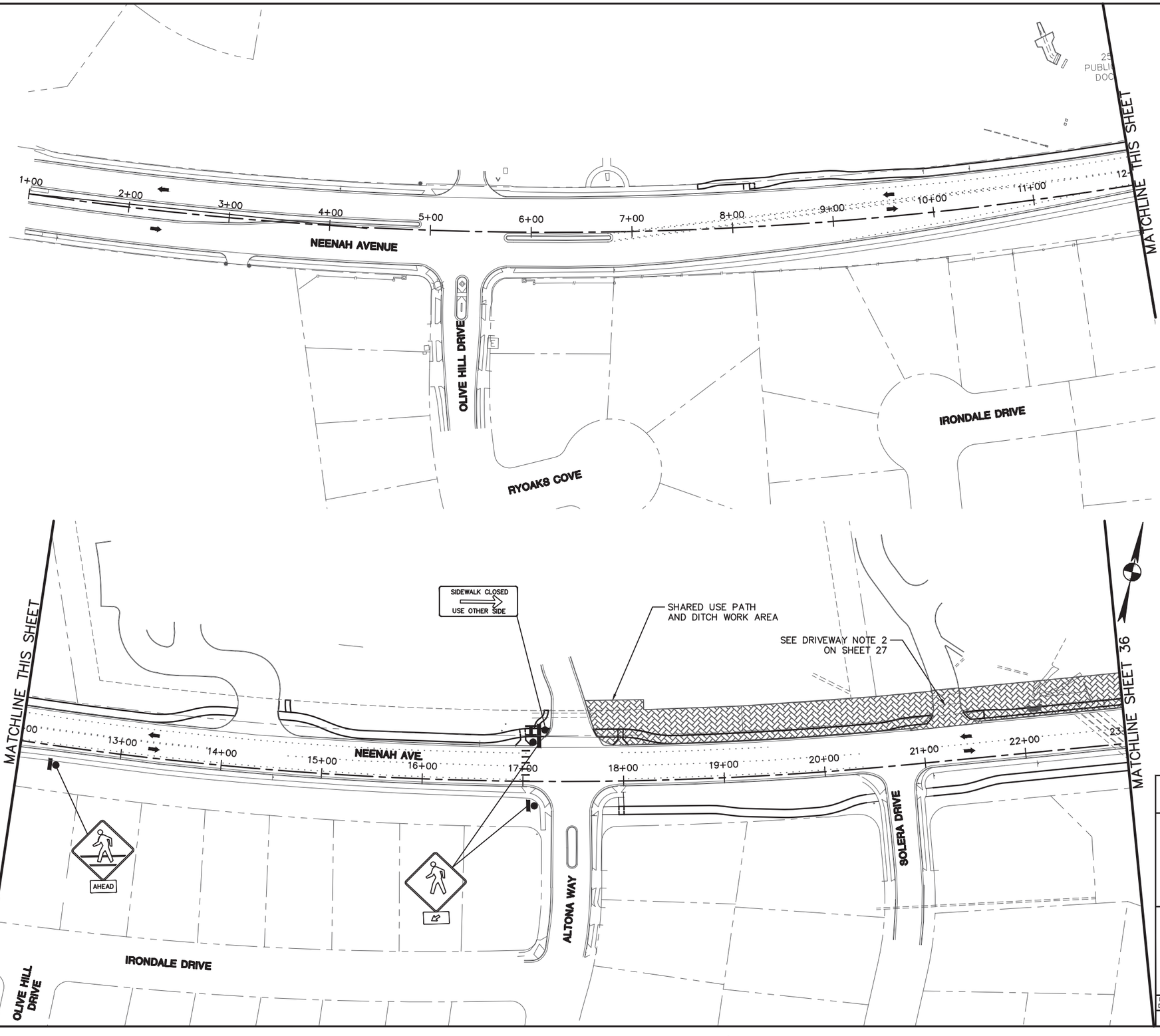

100 0 50 100

1" = 100'

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- SHARED USE PATH DITCH WORK AREA (PHASE III)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S–1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S–5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.
5. CONTRACTOR TO INSTALL TEMPORARY CROSSWALKS AS SHOWN ON PLANS IN ACCORDANCE WITH RESPECTIVE PHASE.

STATE OF TEXAS
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LICENSED
PROFESSIONAL ENGINEER
8/8/2017

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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TCP 5 PHASE III

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				35

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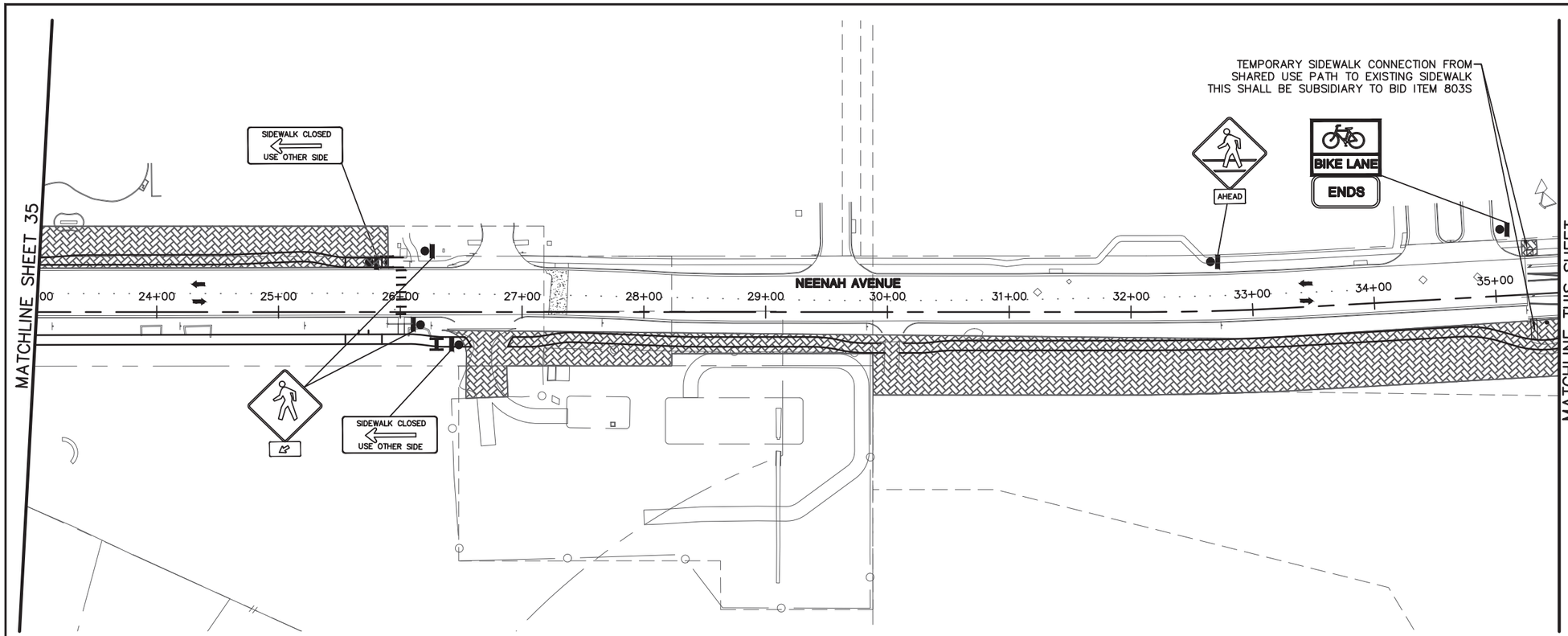

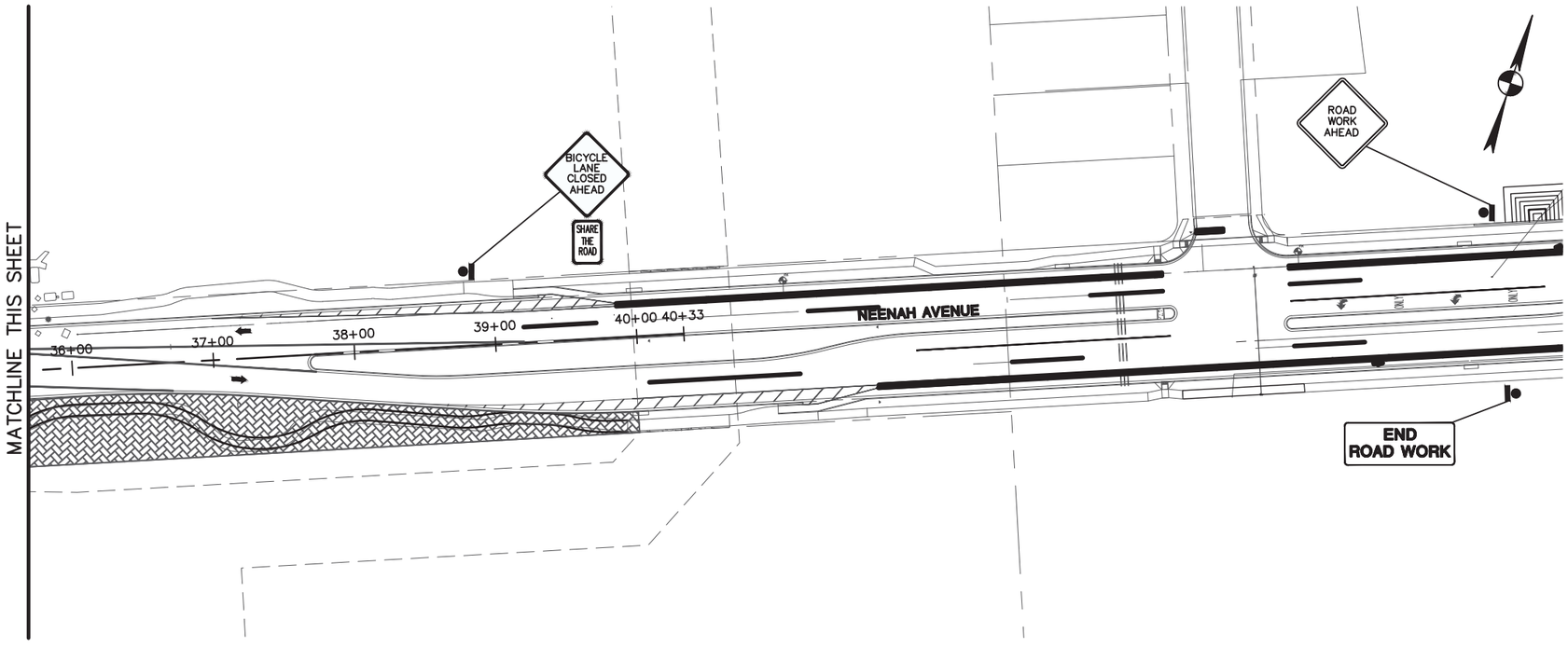

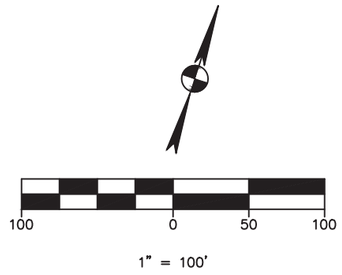

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- SHARED USE PATH DITCH WORK AREA (PHASE III)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S–1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S–5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.
5. CONTRACTOR TO INSTALL CROSSWALKS AS SHOWN ON PLANS IN ACCORDANCE WITH RESPECTIVE PHASE.

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TCP 6 PHASE III

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				36

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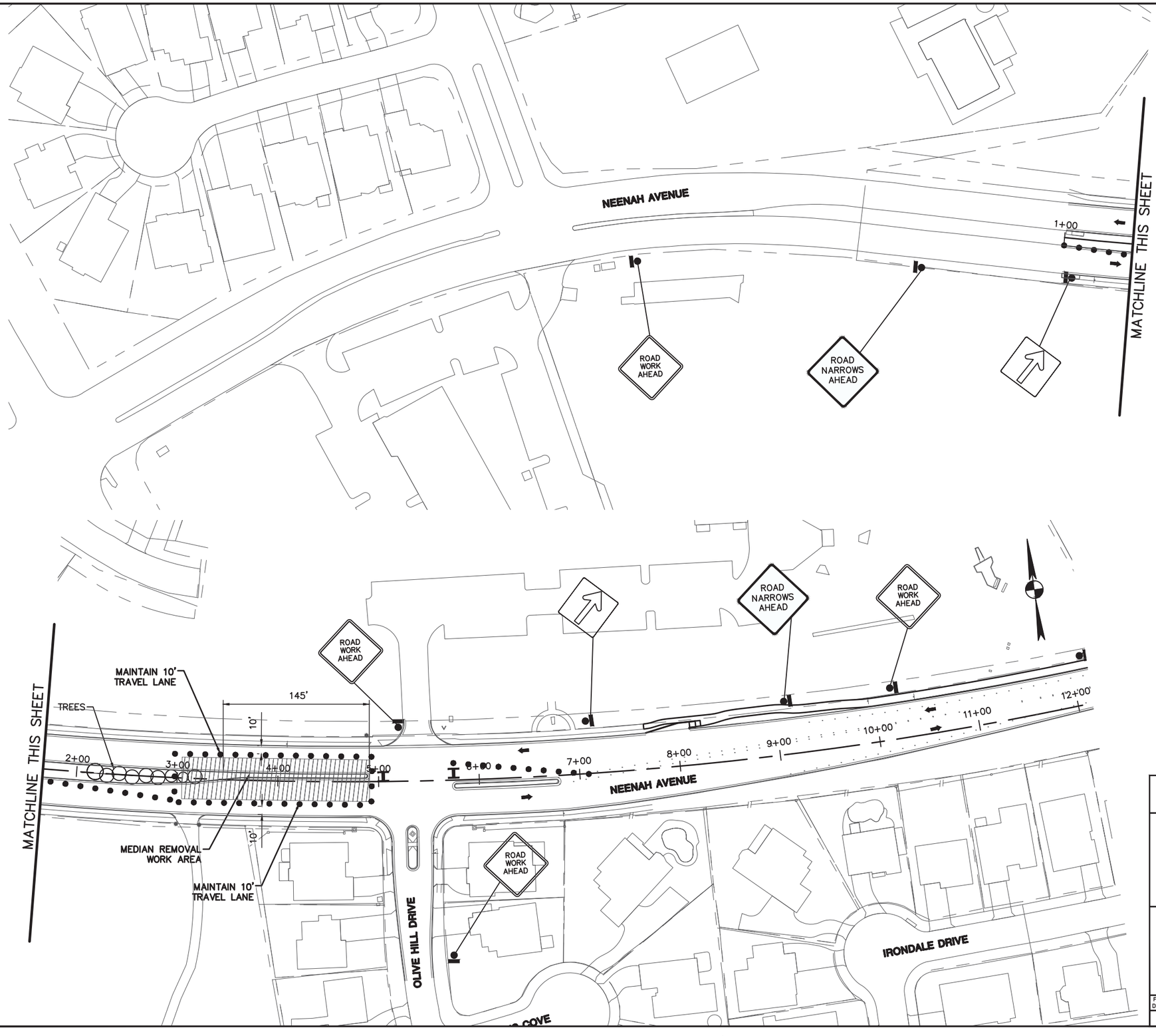

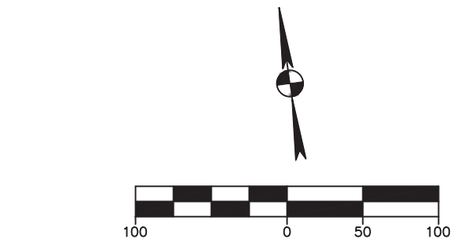

1" = 100'

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- MEDIAN REMOVAL AND INSTALL
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S-1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S-5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH.
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.
5. CONTRACTOR TO INSTALL TEMPORARY CROSSWALKS AS SHOWN ON PLANS IN ACCORDANCE WITH RESPECTIVE PHASE.

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TCP 7 PHASE IV (MEDIAN REMOVAL & INSTALL)

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6	TEXAS	104023-10006	_	14	WILLIAMSON				37

SP-2016-0186D

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400 0 200 400

1" = 400

LEGEND

- EXISTING SIGNS
- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- PROPOSED TEMPORARY STRIPING
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S–1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S–5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
3. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.

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TCP 8 PHASE IV

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				38

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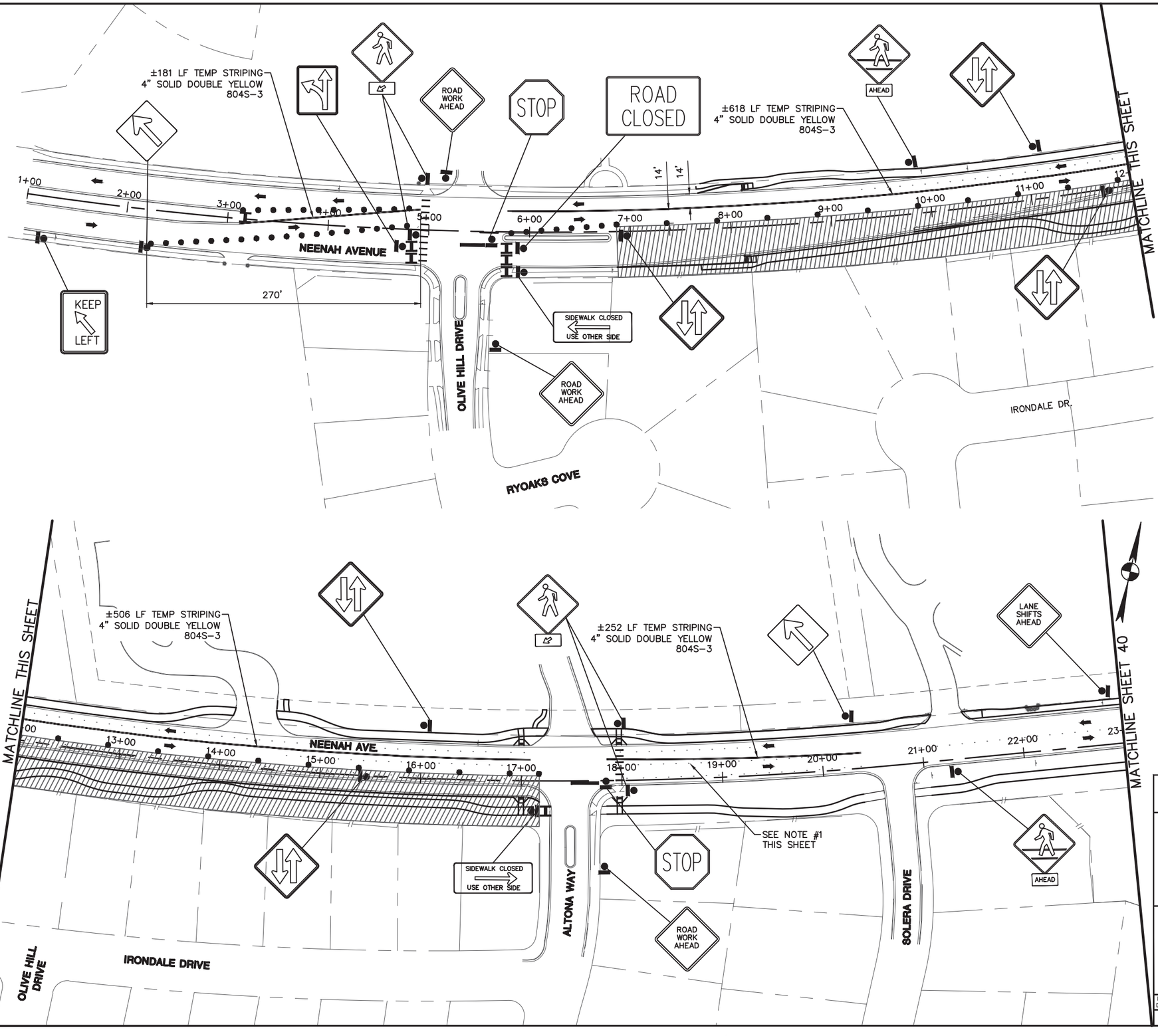

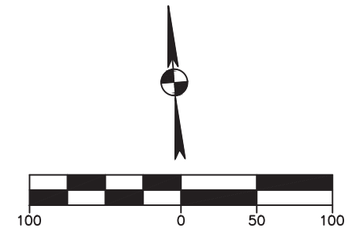

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- PROPOSED TEMPORARY STRIPING
- NEENAH AVE. WIDENING AND SHARED USE PATH (PHSAE IV)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S-1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S-5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30MPH
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.
5. CONTRACTOR TO INSTALL TEMPORARY CROSSWALKS AS SHOWN ON PLANS IN ACCORDANCE WITH RESPECTIVE PHASE.

NOTES THIS SHEET:

1. CONTRACTOR SHALL COVER EXISTING STRIPING IN AREA SHOWN IN WHICH CONSTRUCTION RELATED TEMPORARY STRIPING IS PROPOSED WITH APPROPRIATE MATERIAL (BLACK TAPE). CONTRACTOR TO RESTORE STRIPING AFTER WORK IS COMPLETED.

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TCP 9 PHASE IV

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				39

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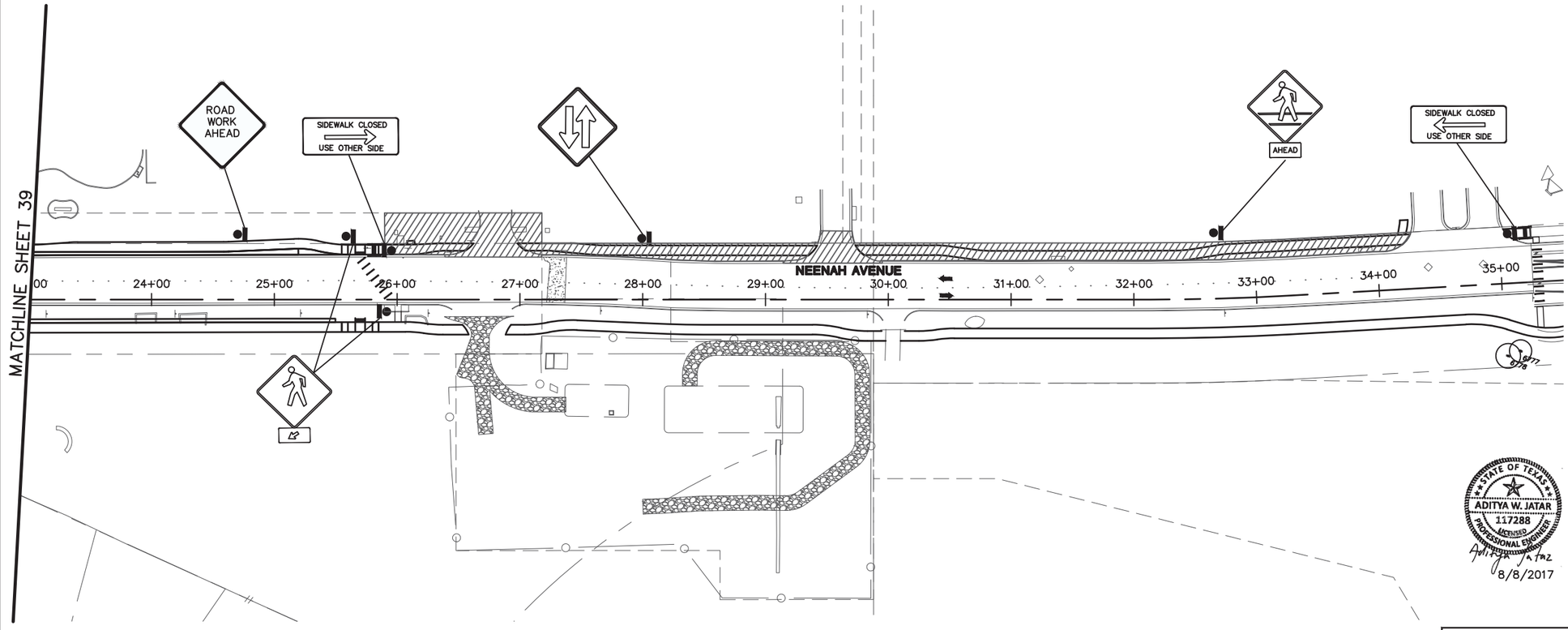

100 0 50 100

1" = 100'

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- PROPOSED TEMPORARY STRIPING
- NEENAH AVE. WIDENING AND SHARED USE PATH (PHASE IV)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S-1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S-5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH.
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.
5. CONTRACTOR TO INSTALL TEMPORARY CROSSWALKS AS SHOWN ON PLANS IN ACCORDANCE WITH RESPECTIVE PHASE.

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TCP 10 PHASE IV

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				40

SP-2016-0186D

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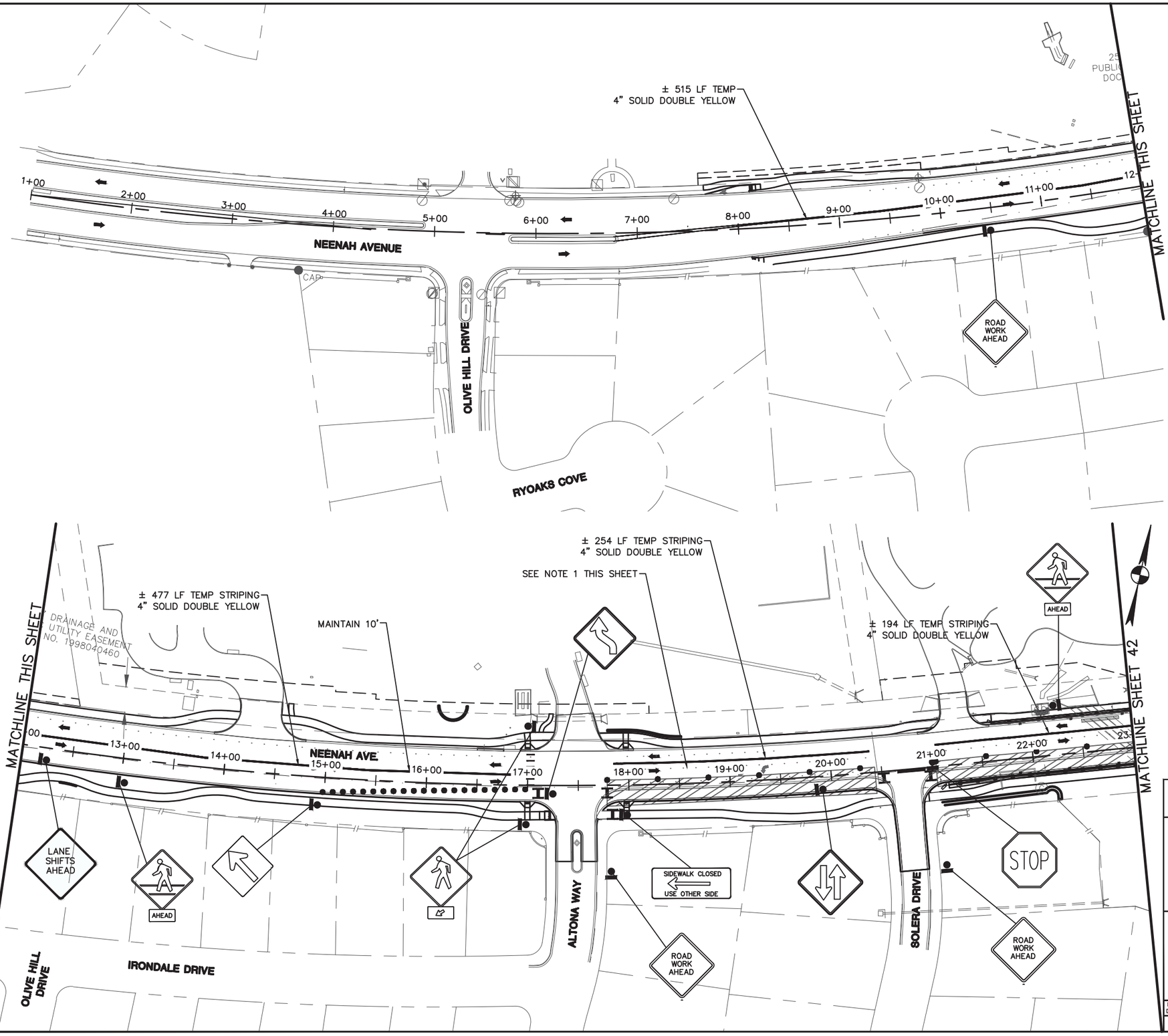

100 0 50 100

1" = 100'

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- PROPOSED TEMPORARY STRIPING
- NEENAH AVE WIDENING AND SHARED USE PATH (PHASE V)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S–1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S–5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.

NOTES THIS SHEET:

1. CONTRACTOR SHALL COVER EXISTING STRIPING IN AREA SHOWN IN WHICH CONSTRUCTION RELATED TEMPORARY STRIPING IS PROPOSED WITH APPROPRIATE MATERIAL (BLACK TAPE). CONTRACTOR TO RESTORE STRIPING AFTER WORK IS COMPLETED.

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TCP 11 PHASE V

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				41

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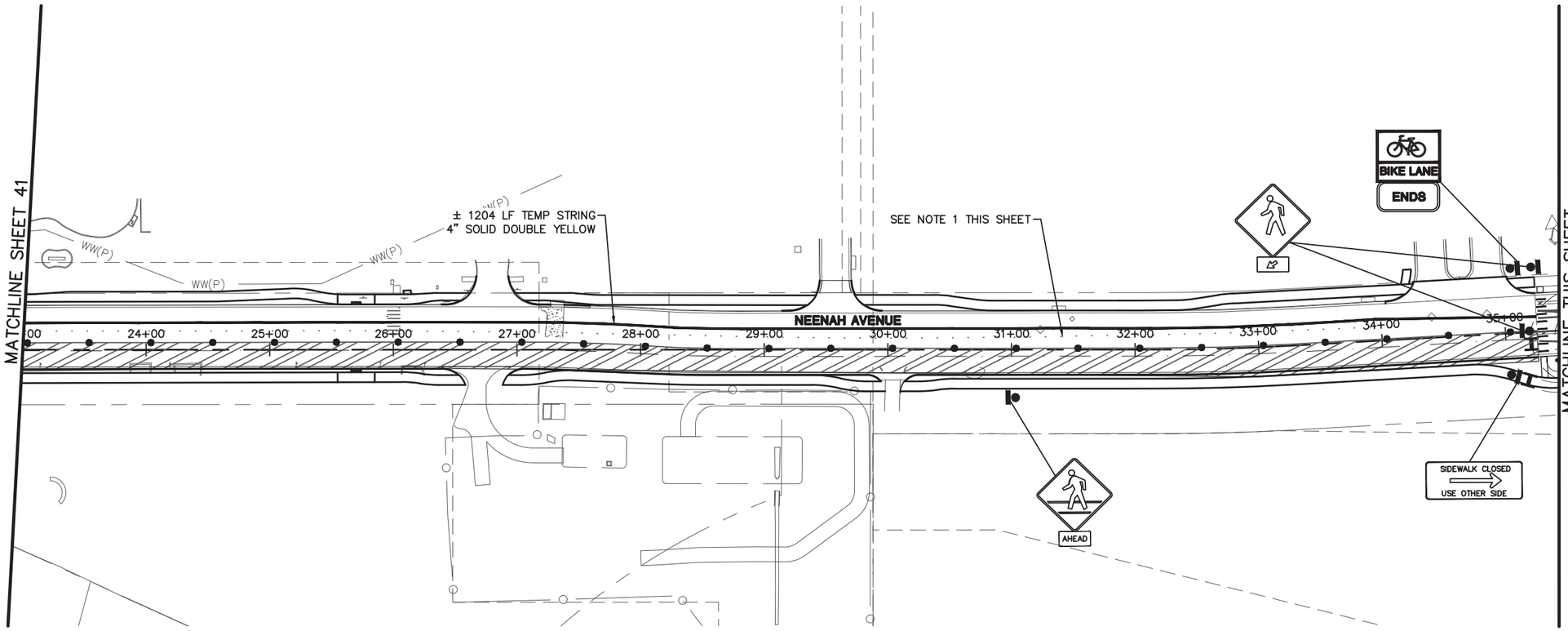

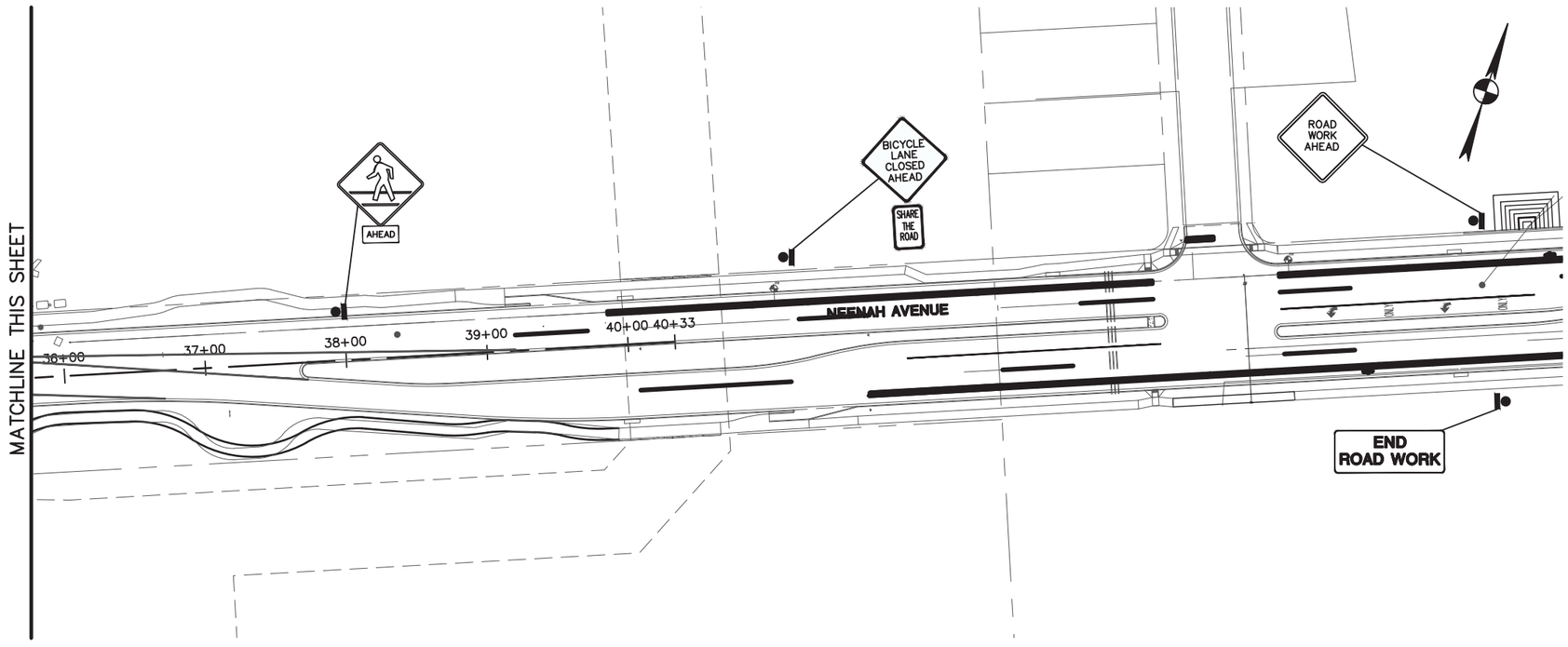

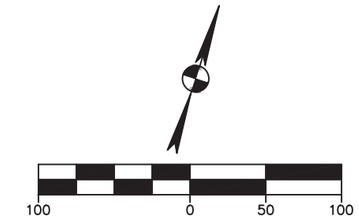

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- PROPOSED TEMPORARY STRIPING
- NEENAH AVE WIDENING AND SHARED USE PATH (PHASE V)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S-1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S-5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH.
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.

NOTES THIS SHEET:

1. CONTRACTOR SHALL COVER EXISTING STRIPING IN AREA SHOWN IN WHICH CONSTRUCTION RELATED TEMPORARY STRIPING IS PROPOSED WITH APPROPRIATE MATERIAL (BLACK TAPE). CONTRACTOR TO RESTORE STRIPING AFTER WORK IS COMPLETED.

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8/14/2017

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TCP 12 PHASE V

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				42

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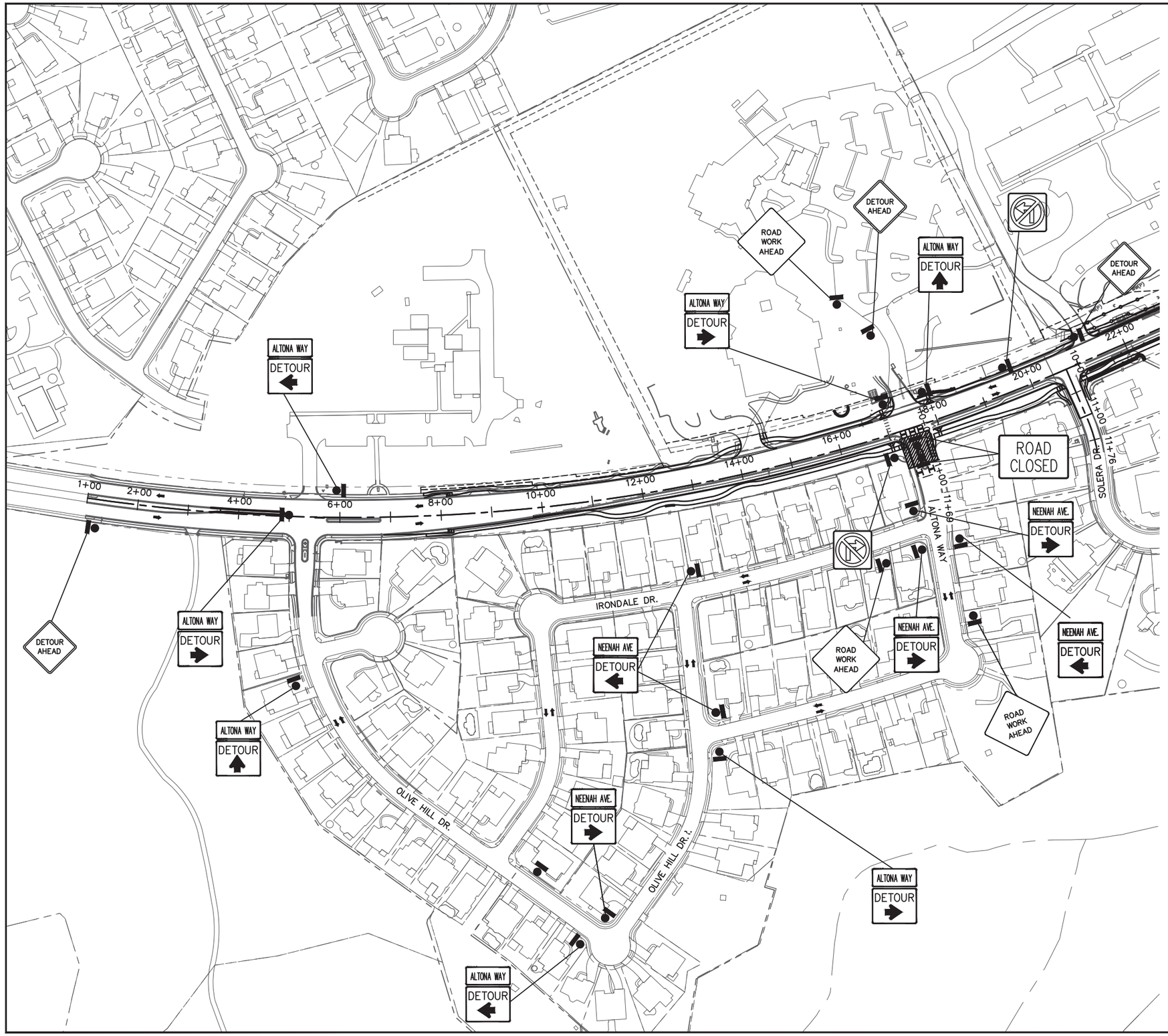

200 0 100 200

1" = 200'

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- PROPOSED TEMPORARY STRIPING
- INTERSECTION WORK AREA (PHASE VI)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S-1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S-5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.

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TCP 13 PHASE VI

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				43

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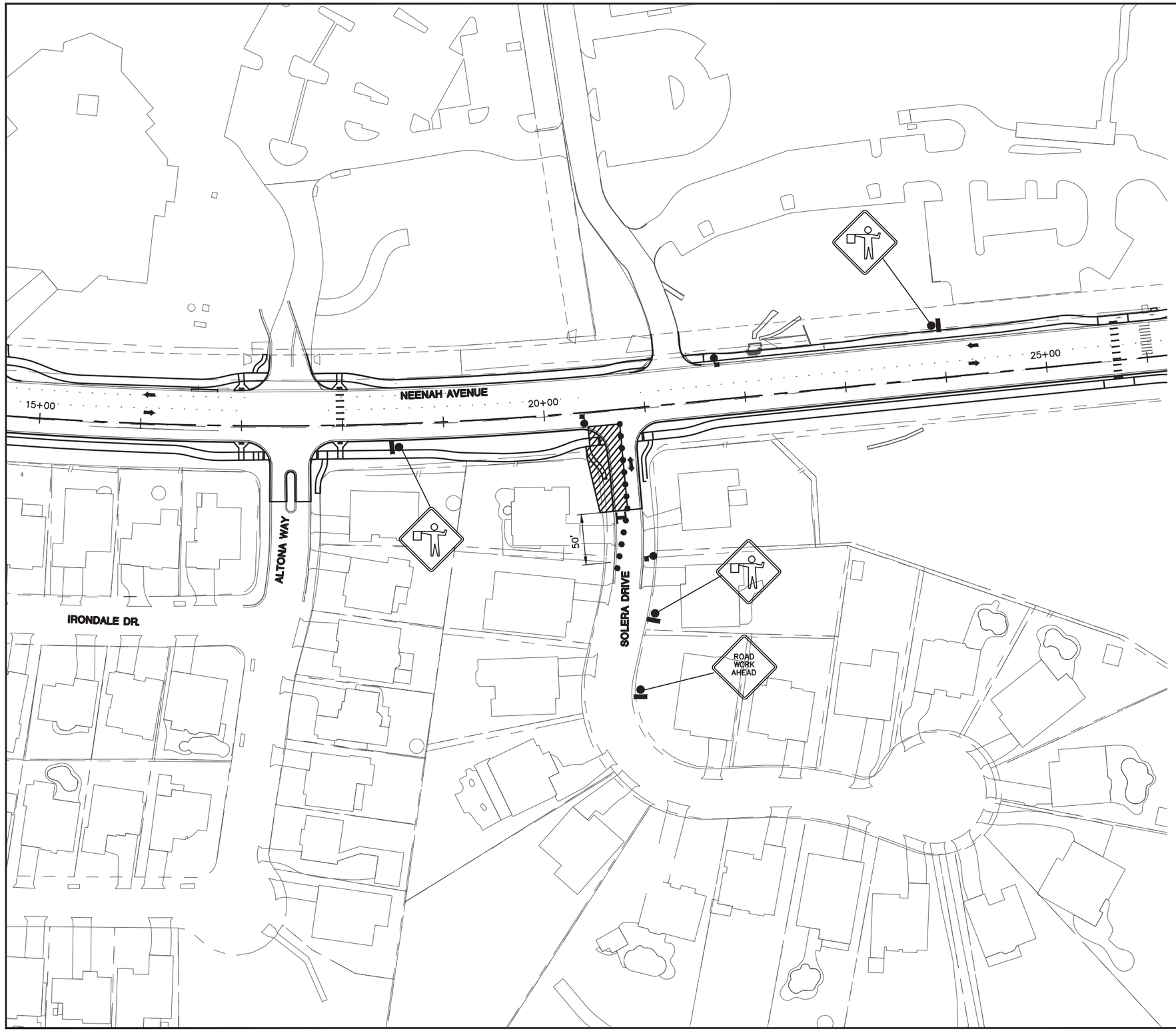

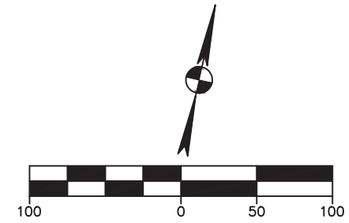

1" = 100'

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- PROPOSED TEMPORARY STRIPING
- INTERSECTION WORK AREA (PHASE VII)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S-1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S-5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30MPH
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.
5. RESIDENTS TO BE INFORMED OF CLOSURE OF SOLERA DRIVE.
6. DAYTIME CLOSURE. CONTRACTOR SHALL OPEN TO SOLERA DRIVE TO TWO-WAY TRAFFIC AT THE END OF EACH DAYS WORK AND INSTALL 3:1 SAFETY SLOPE FOR DROP OFF CONDITIONS GREATER THAN 2 INCHES. CONSIDER SUBSIDIARY TO PERTINENT BID ITEMS.

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TCP 14 PHASE VII

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				44

SP-2016-0186D

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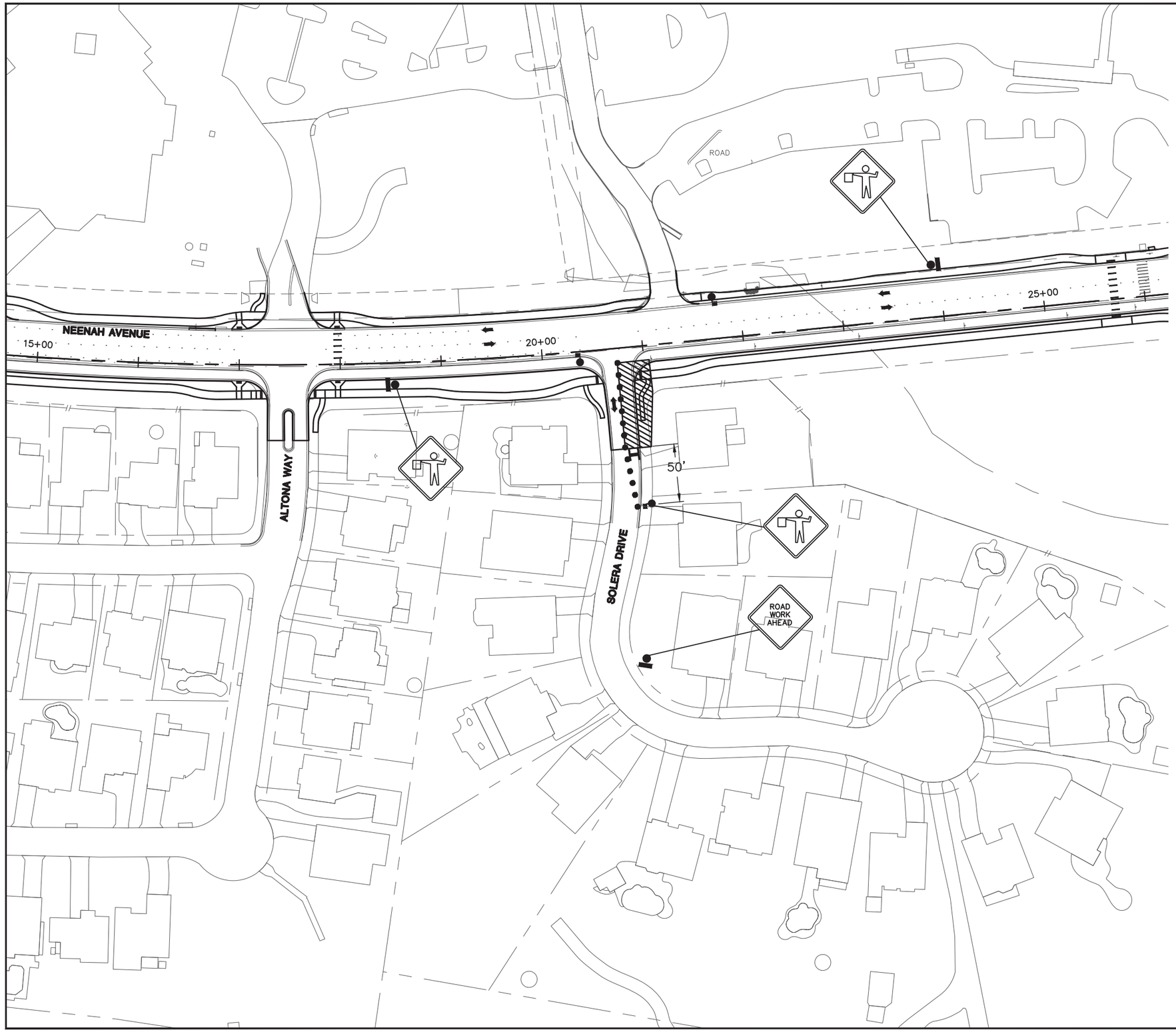

100 0 50 100

1" = 100'

LEGEND

- SIGNS
- TYP II BARRICADE
- CHANNELIZING DEVICE (CONES TYP.)
- EXISTING STRIPING
- PROPOSED TEMPORARY STRIPING
- INTERSECTION WORK AREA (PHASE VIII)
- TEMPORARY CROSSWALK

NOTES:

1. FOR WORK IN COA ROW, SEE DETAIL 804S-1, 9 OF 9, FOR TRANSITION LENGTHS AND DEVICE SPACING. SEE DETAIL 804S-5, 11 OF 13, FOR CROSSROAD SIGNING.
2. TRAFFIC CONTROL SETUP FOR NEENAH AVENUE IS PER POSTED SPEED LIMIT OF 30 MPH.
3. TRAVEL LANES MUST BE MAINTAINED AT A MINIMUM OF 10 FEET IN WIDTH.
4. SAND BAGS MUST BE USED TO SUPPORT ALL SIGNS AND BARRICADES.
5. RESIDENTS TO BE INFORMED OF CLOSURE OF SOLERA DRIVE.
6. DAYTIME CLOSURE. CONTRACTOR SHALL OPEN SOLERA DRIVE TO TWO-WAY TRAFFIC AT THE END OF EACH DAYS WORK AND INSTALL 3:1 SAFETY SLOPE FOR DROP OFF CONDITIONS GREATER THAN 2 INCHES. THIS SHALL BE A NON SEPERATE PAY ITEM.

STATE OF TEXAS
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8/8/2017

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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TCP 15 PHASE VIII

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				45

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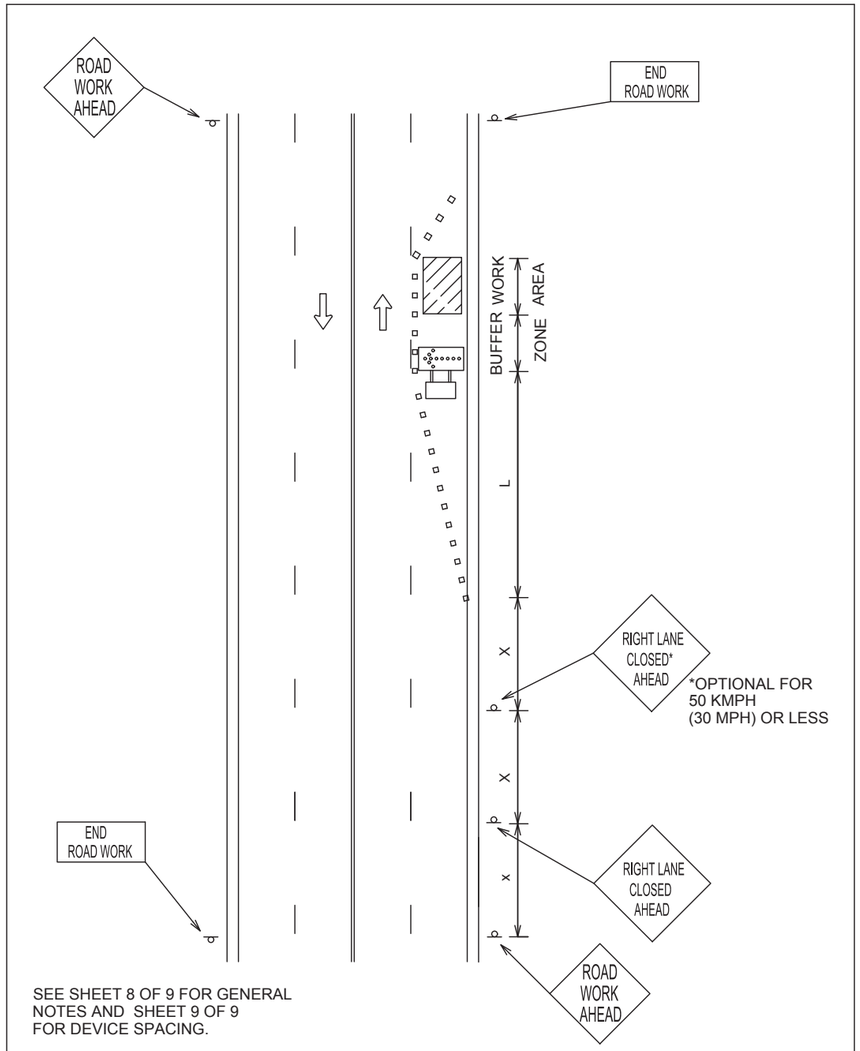
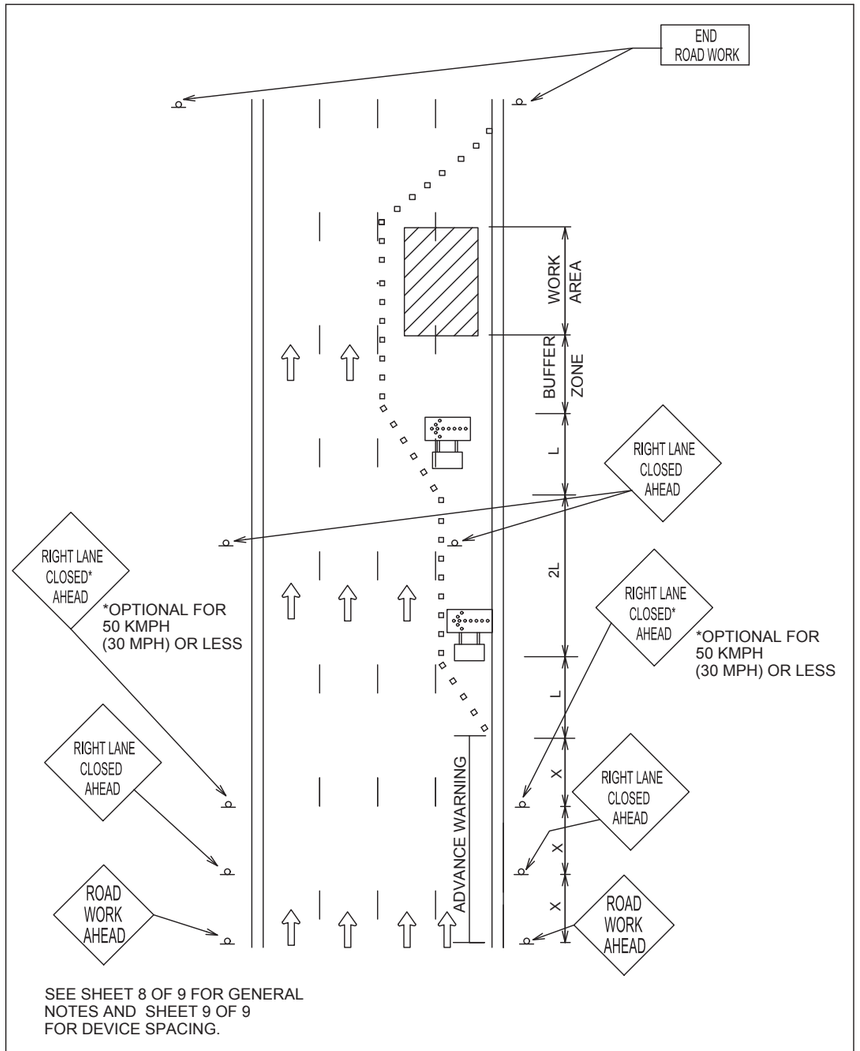


SEE SHEET 8 OF 9 FOR GENERAL NOTES AND SHEET 9 OF 9 FOR DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		ARTERIAL ONE LANE CLOSURE	
RECORD COPY SIGNED BY KERI JUAREZ	01/04/11 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 1 OF 9



SEE SHEET 8 OF 9 FOR GENERAL NOTES AND SHEET 9 OF 9 FOR DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		ONE WAY ARTERIAL TWO-LANE CLOSURE	
RECORD COPY SIGNED BY KERI JUAREZ	01/04/11 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 2 OF 9

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6	TEXAS	104023–10006	_	14	WILLIAMSON				46

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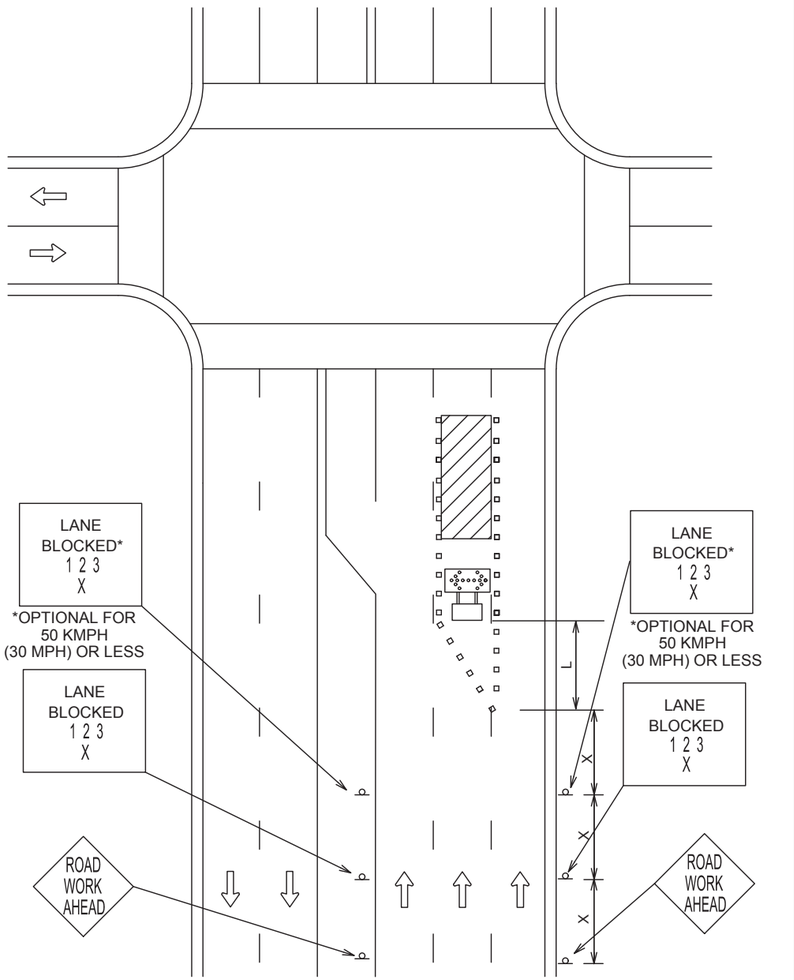
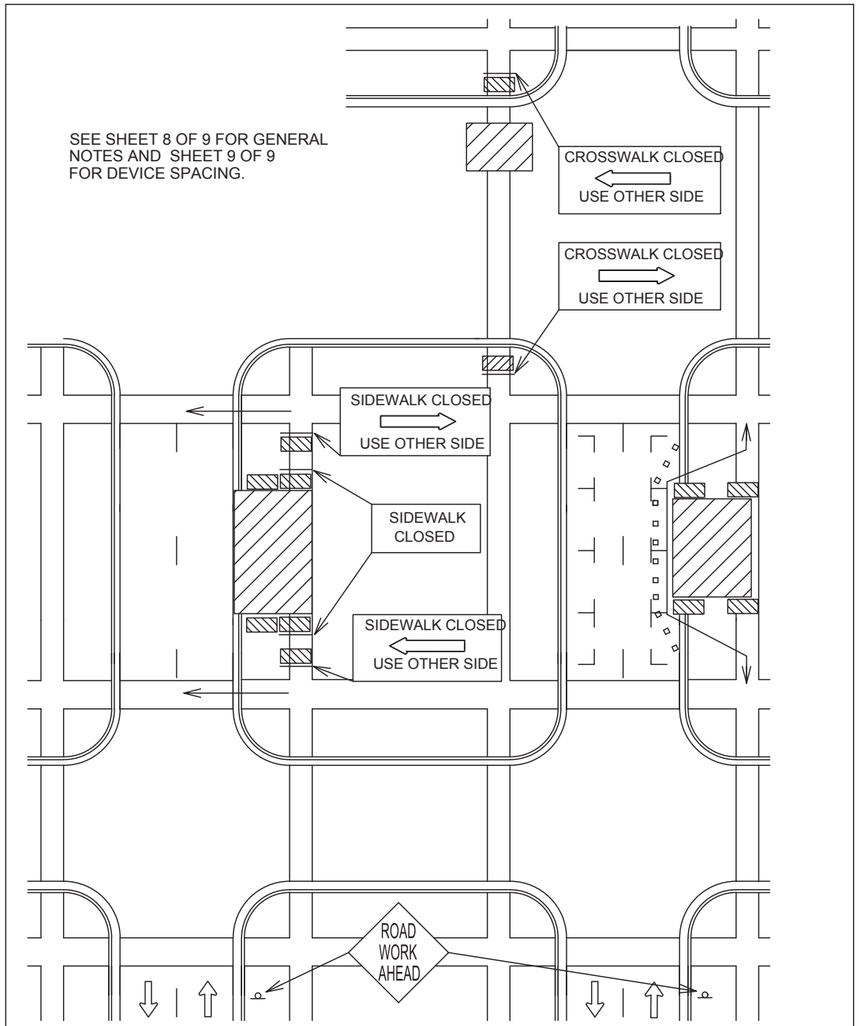


SEE SHEET 8 OF 9 FOR GENERAL NOTES AND SHEET 9 OF 9 FOR DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TWO WAY, DIVIDED ARTERIAL ONE LANE CLOSURE	
RECORD COPY SIGNED BY KERI JUAREZ — 01/04/11 — ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 3 OF 9



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	BYPASS WALKWAY, SIDEWALK AND CROSSWALK CLOSURES	
RECORD COPY SIGNED BY KERI JUAREZ — 01/04/11 — ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 4 OF 9

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				47

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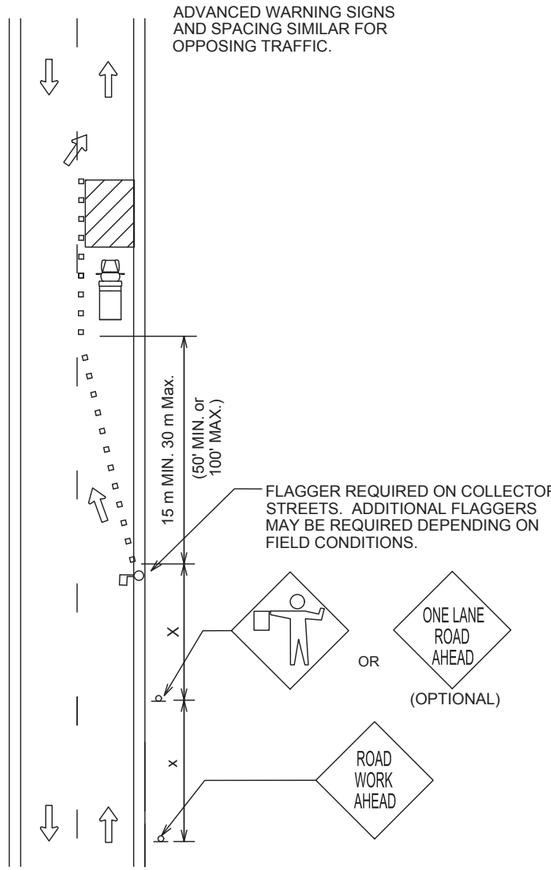
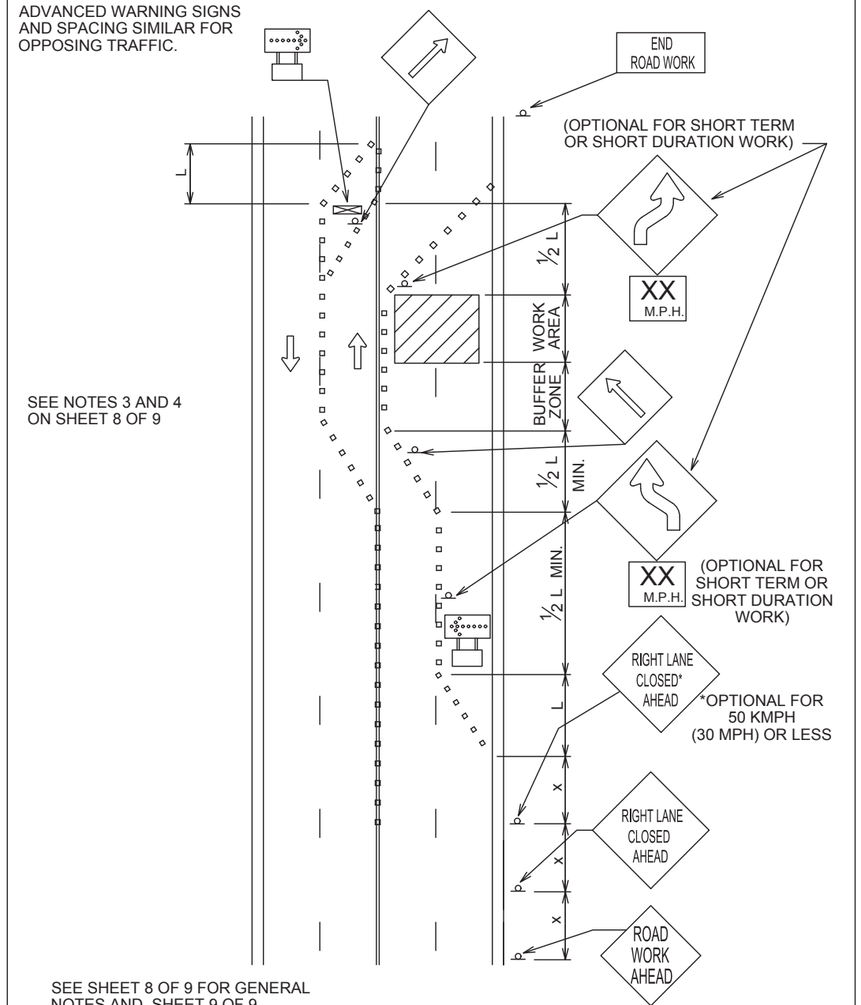


SEE SHEET 8 OF 9 FOR GENERAL NOTES AND SHEET 9 OF 9 FOR DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		COLLECTOR/RESIDENTIAL LANE CLOSURES	
RECORD COPY SIGNED BY KERI JUAREZ	*01/04/11* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 5 OF 9



SEE SHEET 8 OF 9 FOR GENERAL NOTES AND SHEET 9 OF 9 FOR DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL TRAFFIC CONTROL PLAN FOR SHIFTING TRAFFIC	
RECORD COPY SIGNED BY KERI JUAREZ	*01/04/11* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 6 OF 9

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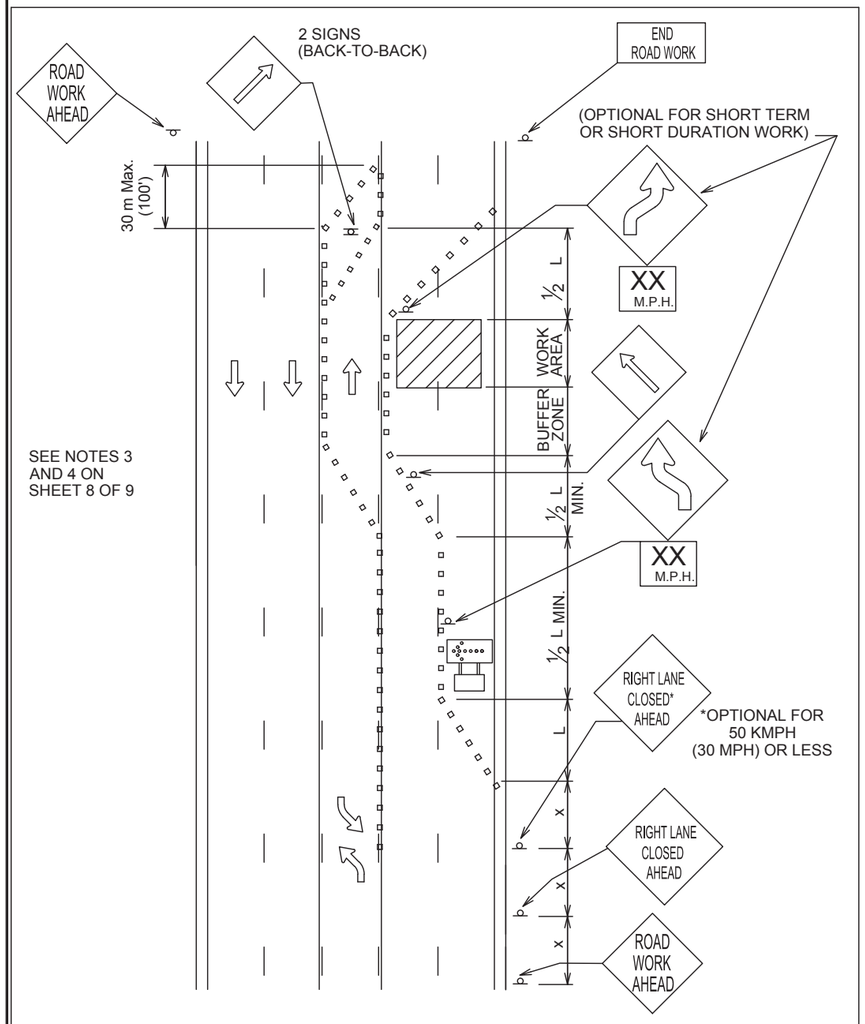

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL TRAFFIC CONTROL PLAN FOR SHIFTING TRAFFIC	
RECORD COPY SIGNED BY KERI JUAREZ	01/04/11 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 7 OF 9

1. ALL SETUPS SHALL BE IN ACCORDANCE WITH THE CURRENT ADDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL.
2. TO DETERMINE APPROPRIATE DEVICES AND SIGN SIZES TO BE USED, REFER TO STANDARD 804S-5. SHEETS 5, 6 AND 7 OF 11.
3. FOR INTERMEDIATE-TERM SITUATIONS, WHEN IT IS NOT FEASIBLE TO REMOVE AND RESTORE PAVEMENT MARKINGS, THE CHANNELIZATION MUST BE MADE DOMINANT BY USING A VERY CLOSE DEVICE SPACING. THIS IS ESPECIALLY IMPORTANT IN LOCATIONS OF CONFLICTING INFORMATION, SUCH AS WHERE TRAFFIC IS DIRECTED OVER A DOUBLE YELLOW CENTERLINE. IN SUCH LOCATIONS, A MAXIMUM CHANNELIZING DEVICE SPACING OF 3 m (10') IS REQUIRED.
4. FOR LONG TERM STATIONARY WORK, ALL CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED AND CENTERLINE STRIPING PROVIDED WHERE TWO WAY TRAFFIC IS IN ADJACENT LANES.
5. FOR TEMPORARY PAVEMENT MARKING REQUIREMENTS SEE STANDARD 804S-3.
6. FOR ONE-WAY AND MULTI-LANE ROADWAYS THE "LANE BLOCKED" SIGN MAY BE USED IN LIEU OF THE "LANE CLOSED AHEAD" SIGN. THE NUMBER OF DIGITS ON THE SIGN SHALL NOT BE GREATER THAN THE NUMBER OF LANES PRESENT ON THE ROADWAY. THE "X" SHALL BE PLACED UNDER THE NUMBER OF LANE(S) BLOCKED.
7. FOR FLAGGING OPERATION REQUIREMENTS SEE STANDARD 804S-2.
8. CONTRACTOR SHALL PROVIDE SIDEWALK CLOSURES, CROSSWALK CLOSURES OR WALKWAY BYPASS WHEREVER PEDESTRIAN MOVEMENTS ARE AFFECTED BY CONSTRUCTION ACTIVITIES. ALL SIDEWALKS AND CROSSWALKS SHALL BE ACCESSIBLE WHEN CONTRACTOR IS NOT WORKING UNLESS APPROVED BY THE TRANSPORTATION DIVISION.
9. FOR EXCAVATION PROTECTION AND SAFETY FENCE REQUIREMENTS SEE STANDARD 804S-4.
10. THE USE OF ARROW DISPLAYS ARE REQUIRED ON ALL LANE CLOSURES. THE CONTRACTOR SHALL PROVIDE ONE (1) STAND-BY UNIT IN GOOD WORKING CONDITION AT THE JOB SITE, READY FOR USE IF THE OPERATION REQUIRES 24-HOUR A DAY LANE CLOSURE SET-UPS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		GENERAL NOTES	
RECORD COPY SIGNED BY KERI JUAREZ	01/04/11 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 8 OF 9

STATE OF TEXAS
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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				49

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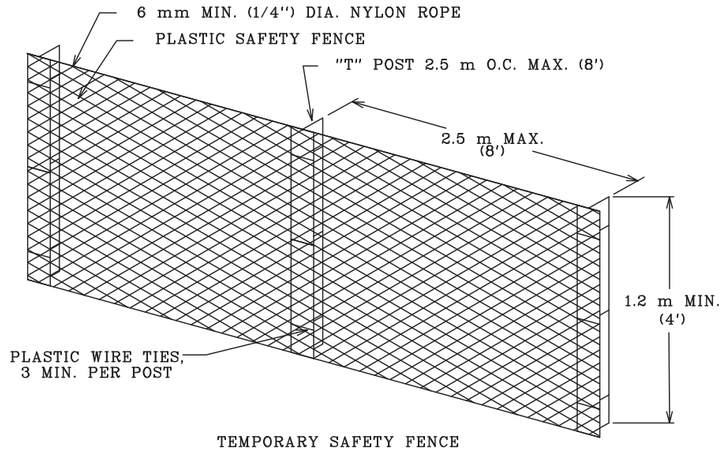
Typical Transition Lengths and Suggested Maximum Spacing of Devices

Speed KMPH	Posted Speed MPH	Formula	Minimum Desirable Taper Lengths (L) Meters (Feet) 3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)	Suggested Max. Device Spacing On a taper Meters (feet)	On a tangent Meters (feet)	Suggested Sign Spacing Meters (Feet) "X" Dimension
50	30	$L=\frac{WS^2}{60}$	45 (150)	50 (165)	55 (180)	9 (30)	15-20 (60-75)	40 (120)
55	35		65 (205)	70 (225)	75 (245)	10 (35)	25-25 (70-90)	50 (160)
65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
70	45	L=WS	135 (450)	150 (495)	165 (540)	13 (45)	25-30 (90-110)	100 (320)
80	50		150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-125)	120 (400)
90	55		165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-140)	150 (500)
95	60		180 (600)	200 (660)	220 (720)	18 (60)	40-45 (120-150)	180 (600)
105	65		195 (650)	215 (715)	235 (780)	19 (65)	40-50 (130-165)	210 (700)
115	70		215 (700)	235 (770)	255 (840)	21 (70)	45-55 (140-175)	240 (800)

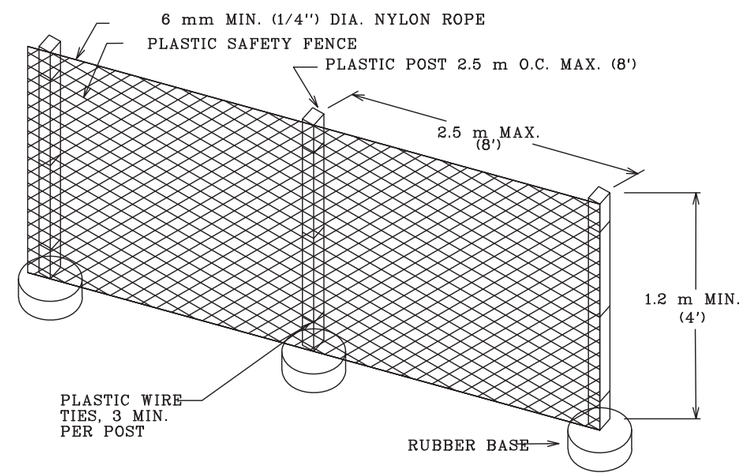
LEGEND

- Channelizing devices
- Trailer mounted flashing arrow board
- Flagger

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		DEVICE SPACING	
RECORD COPY SIGNED BY KERI JUAREZ	01/04/11 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 9 OF 9



TEMPORARY SAFETY FENCE



PORTABLE SAFETY FENCE

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SAFETY FENCE	
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STATE OF TEXAS
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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
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1. SAFETY FENCE SHALL BE USED TO PROTECT ALL EXCAVATIONS IN THE RIGHT-OF-WAY.
2. SAFETY FENCES SHALL BE USED TO SEPARATE CONSTRUCTION ACTIVITIES FROM PEDESTRIAN.
3. ALL SAFETY FENCING SHALL BE PLASTIC, 1,200 mm (48") MINIMUM HEIGHT AND ORANGE IN COLOR.
4. SAFETY FENCE USED WITHIN THE ROADWAY SHALL BE REFLECTORIZED WITH A MINIMUM OF TWO (2) STRIPS OF RETROREFLECTIVE MATERIAL, A MINIMUM OF 25 mm (1") WIDE, THE LENGTH OF THE FENCE OR DELINEATED BY CHANNELIZING DEVICES.
5. SAFETY FENCE USED TO SEPARATE SIDEWALKS FROM CONSTRUCTION ACTIVITIES SHALL HAVE MINIMUM ENCROACHMENT TO THE SIDEWALK.
6. AS A MINIMUM, SAFETY FENCING IS REQUIRED IN AREAS ADJACENT TO EXCAVATIONS GREATER THAN OR EQUAL TO 150 mm (6").
7. SAFETY FENCING SHALL BE PAID FOR UNDER ITEM 803S, "BARRICADES, SIGNS AND TRAFFIC HANDLING", PAY ITEM NO. 803S-SF.
8. PORTABLE SAFETY FENCE MOUNTS SHALL BE APPROVED BY THE TRANSPORTATION DIVISION PRIOR TO CONSTRUCTION.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SAFETY FENCE	
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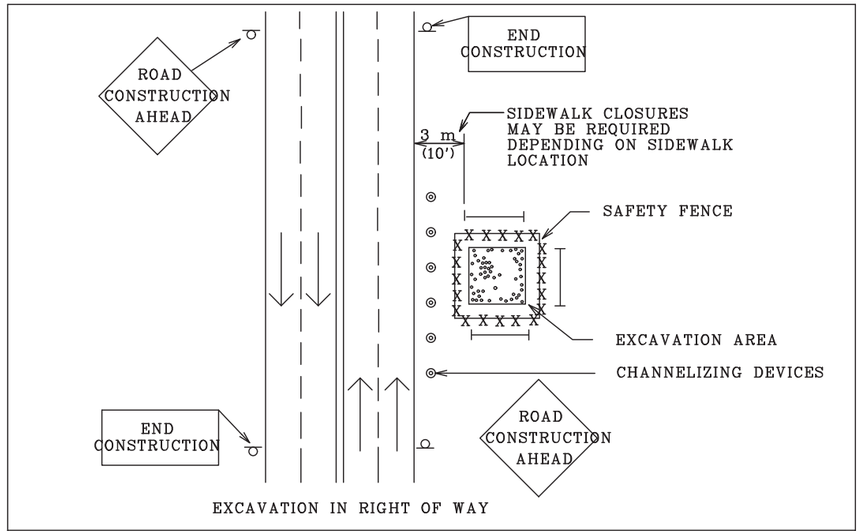
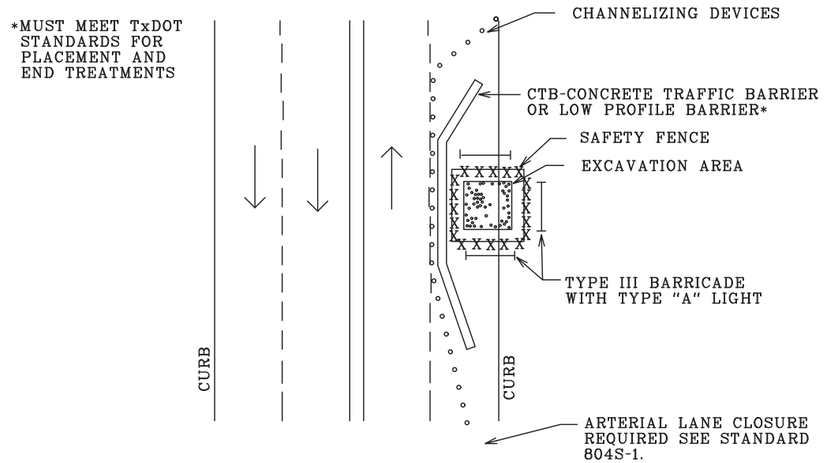


EXCAVATION IN RIGHT OF WAY



EXCAVATION IN ROADWAY

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	LARGE EXCAVATION	
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STATE OF TEXAS
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6	TEXAS	104023–10006	_	14	WILLIAMSON				51

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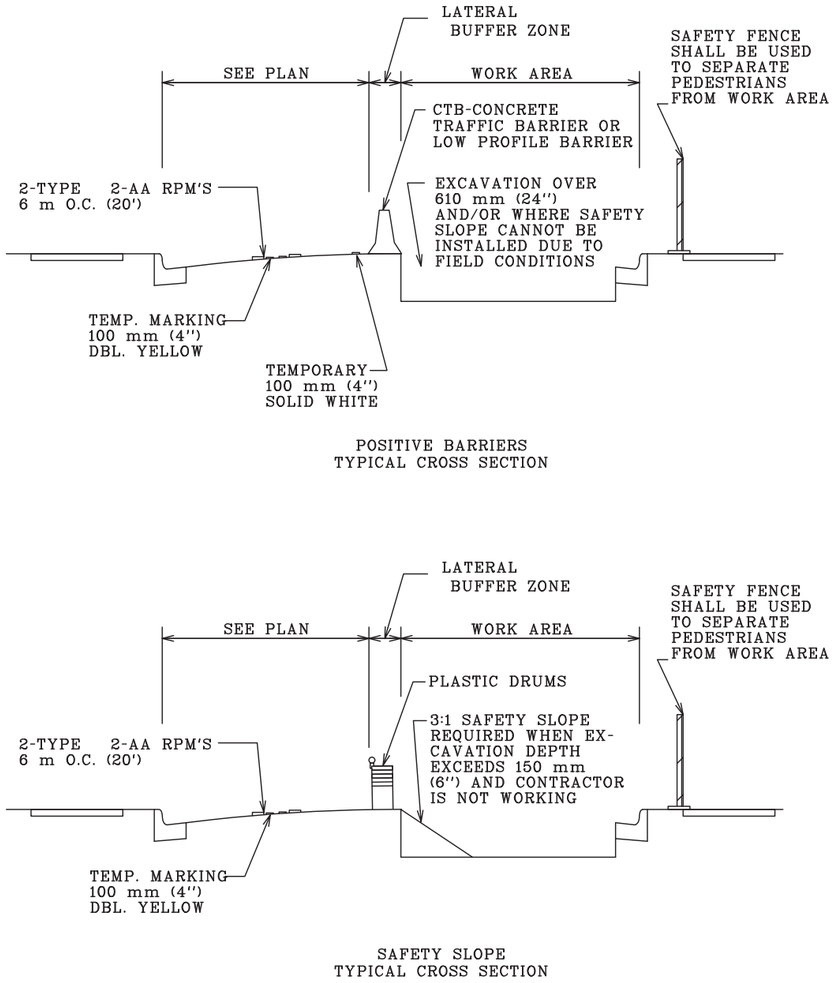

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		WORK AREA PROTECTION	
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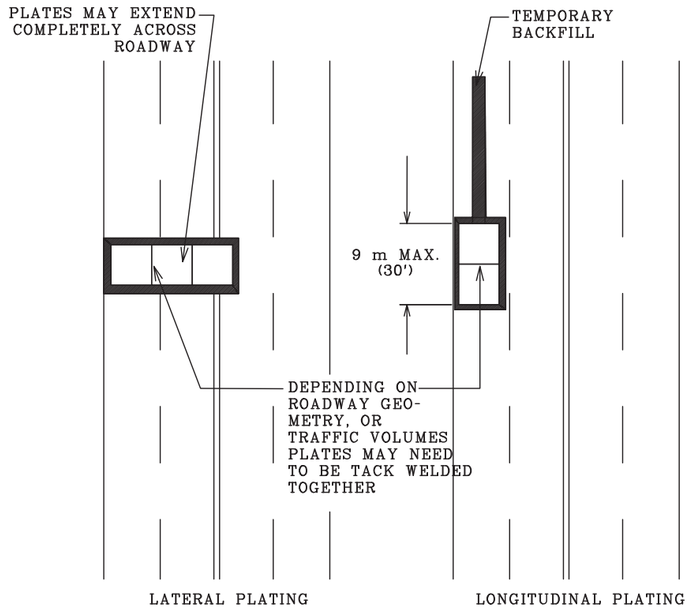
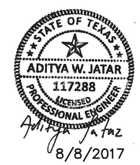


CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		STEEL PLATING	
RECORD COPY SIGNED BY SAM ANGOORI	*04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 5 OF 9



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6	TEXAS	104023–10006	_	14	WILLIAMSON				52

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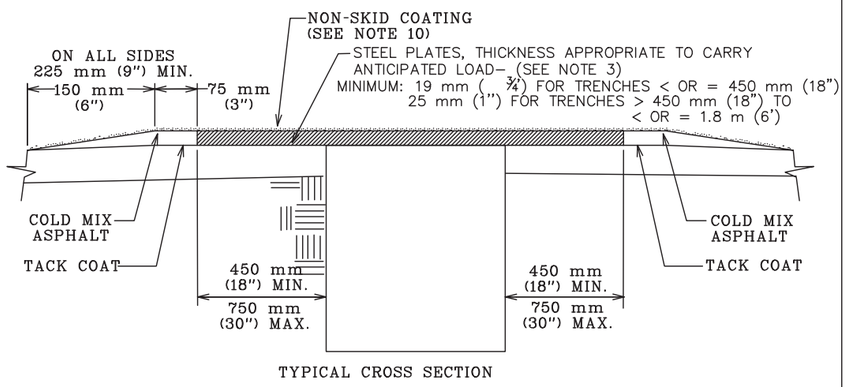
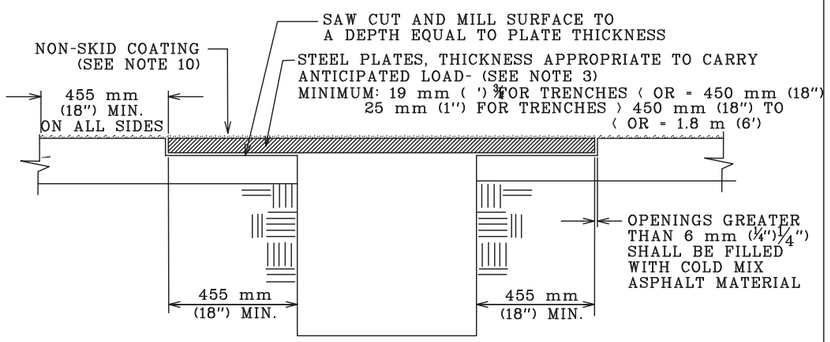


TYPICAL CROSS SECTION

CASE I- LOW TRAFFIC VOLUME/LIMITED IN-SERVICE TIME



TYPICAL CROSS SECTION

CASE II- EXTENDED IN-SERVICE PLATING AND/OR
HEAVILY-TRAFFICKED ROADS/STREETS
(HMAC PAVEMENTS ONLY)

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		STEEL PLATING	
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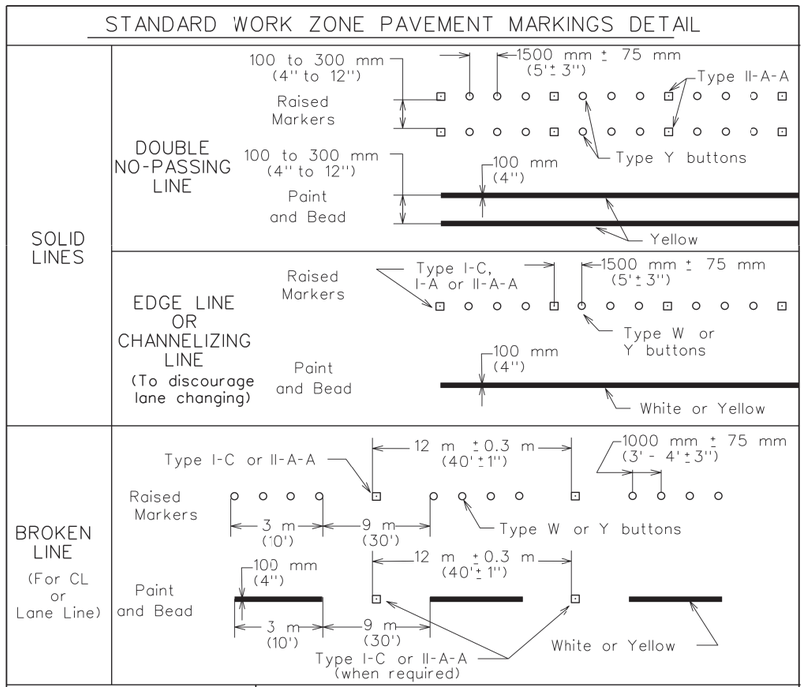
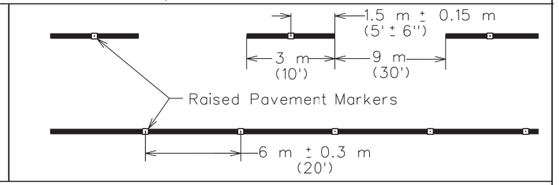
STANDARD WORK ZONE PAVEMENT MARKINGS DETAIL



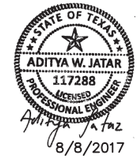
REMOVABLE MARKINGS WITH RAISED PAVEMENT MARKERS

SEE STANDARD 804S-3 SHEET 5 OF 5 FOR GENERAL NOTES.



NOTE: IF RAISED PAVEMENT MARKERS ARE USED TO SUPPLEMENT REMOVABLE MARKINGS, THE MARKERS SHALL BE APPLIED TO THE TOP OF THE TAPE AT THE APPROXIMATE MID-LENGTH OF TAPE BROKEN LINES AND AT APPROXIMATE 6 m (20') SPACING FOR SOLID LINES. THIS ALLOWS AN EASIER REMOVAL OF RAISED MARKERS AND TAPE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TEMPORARY TRAFFIC CONTROL PAVEMENT MARKINGS	
RECORD COPY SIGNED BY BILL GARDNER	*03/13/06* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-3 1 OF 5



8/8/2017

NEENAH AVENUE WIDENING

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6	TEXAS	104023–10006	_	14	WILLIAMSON				53

SP-2016-0186D

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NOTES:

1. WHERE TRAFFIC MUST CROSS TRENCHES, THE CONTRACTOR SHALL PROVIDE SUITABLE BRIDGES.

2. THE USE OF STEEL PLATES SHALL BE APPROVED BY THE RIGHT OF WAY MANAGEMENT DIVISION OF WATERSHED PROTECTION AND DEVLOPMENT DEPARTMENT PRIOR TO INITIATION OF CONSTRUCTION.

3. THE THICKNESS OF PLATES FOR TRENCH WIDTHS EXCEEDING 1.8 m (6') SHALL BE ESTABLISHED IN AN ANALYSIS COMPLETED BY A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF TEXAS. THE ANALYSIS SHALL BE BASED ON HS–20 TRAFFIC LOADING WITH A MAXIMUM PLATE DEFLECTION OF 50 mm (½") WHEN EXPERIENCING SAID LOADING. FOR SITUATIONS WHERE MULTIPLE LAYERS OF PLATES (OR STACKED PLATES) ARE TO BE EMPLOYED, THE SEAMS (IE. THE INTER–FACE BETWEEN PLACED SIDE–BY–SIDE) OF THE UPPER LAYER SHALL BE PLACED PERPENDICULAR TO THE SEAMS OF THE UNDERLYING PLATES.

4. WHEN APPROVED, THE TYPE OF PLATE INSTALLATION SHALL BE BASED ON THE ANTICIPATED LENGTH OF TIME THE PLATE WILL BE IN SERVICE:
CASE I: A CASE I INSTALLATION SHALL APPLY FOR NO LONGER THAN A 2 WEEK PERIOD.
CASE II: A CASE II INSTALLATION SHALL APPLY FOR NO LONGER THAN 2 WEEK PERIOD.

5. THE TOPSIDE OF THE STEEL PLATE SHALL BE FLAT AND FREE OF ANY CLIPS, CHAINS, ATTACHMENTS, WELDMENTS OR SURFACE IRREGULARITIES.

6. PLATES WITH A PERMANENT DISPLACEMENT (I.E. DISPLACEMENT ANYWHERE ON THE SURFACE OF THE PLATE WITH RESPECT TO A PLANE FORMED BY THE OUTSIDE EDGES) THAT EXCEEDS 12 mm (½") SHALL NOT BE USED FOR PLATING PURPOSES. PLATES THAT DEVELOP A PERMANENT DISPLACEMENT EXCEEDING 12 mm (½") DURING SERVICE SHALL BE REMOVED AND REPLACED.

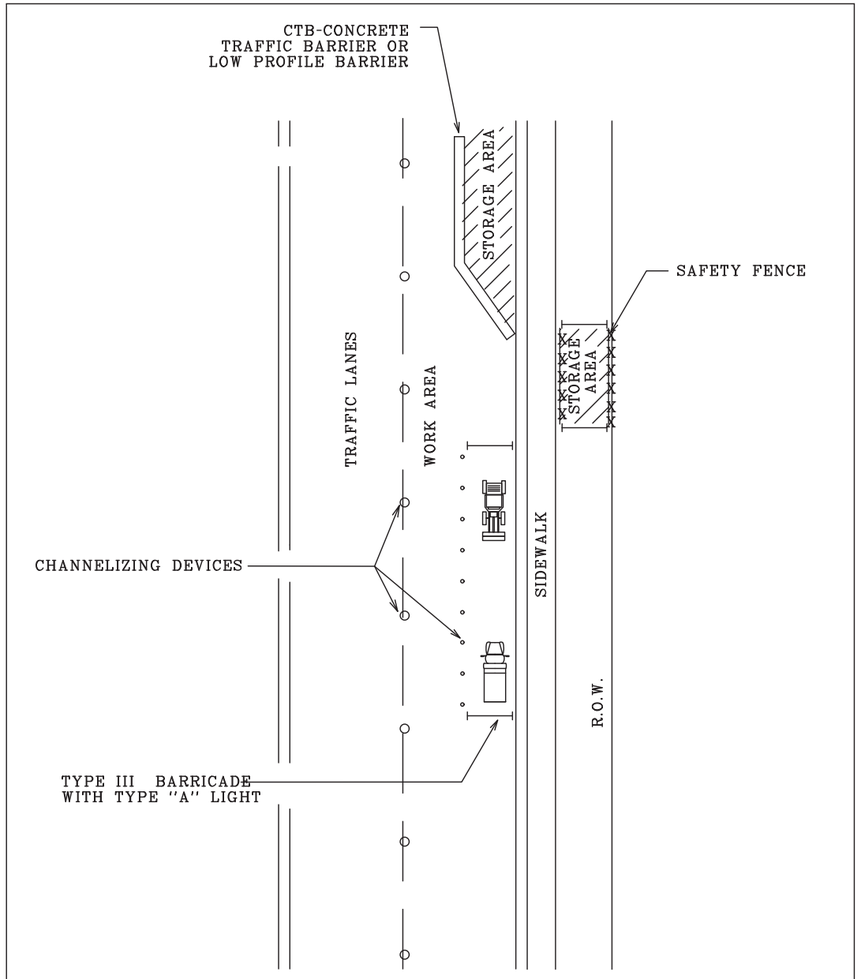
7. THE PLATES SHALL BE PROVIDED WITH APPROPRIATE NUMBER OF KEYHOLE SLOTS OR CIRCULAR HOLES FOR HANDLING, LIFTING, INSTALLATION AND REMOVAL PURPOSES.

8. THE CONTRACTOR SHOULD AVOID USING A LONG SERIES OF PLATES THAT RUN PARALLEL TO VEHICULAR TRAFFIC WHEELS PATHS.

9. ADDITIONAL METHODS OF SECURING PLATES MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.

10. FOR PLATES 1.8 M (6') OR GREATER IN DIRECTION OF TRAFFIC, A NON–SKID COATING SHOULD BE APPLIED TO THE ENTIRE SURFACE AREA OF ALL PLATES, AS WELL AS ADJACENT AREAS. THE NON–SKID COATING SHALL BE TCA (TEXTURED COATING OF AMERICA, INC.) STRATA–GRIP DECK COATING SYSTEM; SLIPFIX, INC. SPS (SLIP PROTECTION SURFACE) OR AN EQUIVALENT PRODUCT APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	STEEL PLATING	
RECORD COPY SIGNED BY SAM ANGOORI *04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 7 OF 9



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	MATERIAL AND EQUIPMENT STORAGE	
RECORD COPY SIGNED BY SAM ANGOORI *04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 8 OF 9

STATE OF TEXAS
ADITYA W. JATAR
117288
LICENSED
PROFESSIONAL ENGINEER
8/8/2017

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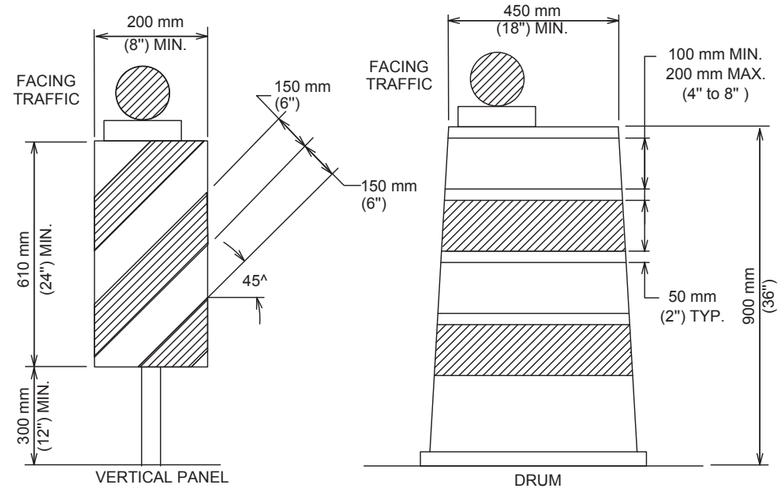
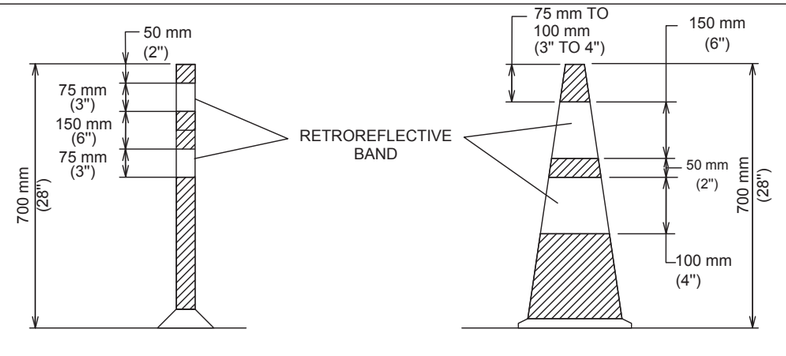
1. STORAGE OF EQUIPMENT AND MATERIALS SHALL BE RESTRICTED TO LOCATIONS WHERE DRIVER SIGHT DISTANCES TO TRAFFIC, PEDESTRIANS, BUSINESSES AND SIDE STREET INTERSECTIONS ARE NOT OBSTRUCTED OR WHERE AN UNSIGHTLY APPEARANCE. AS DETERMINED BY THE ENGINEER, WILL NOT EXIST.
2. EQUIPMENT MUST BE PARKED AS FAR AWAY FROM THE TRAVELWAYS AS PRACTICAL.
3. TOTAL AREA USED FOR EQUIPMENT STORAGE SHALL BE KEPT TO A MINIMUM.
4. ALL MATERIALS STORED IN THE RIGHT-OF-WAY MUST BE MAINTAINED IN A NEAT AND ORGANIZED MANNER.
5. MATERIALS STORED MAY NOT BE MORE THAN 915 mm (36'') IN HEIGHT.
6. ALL MATERIALS STORED MUST BE USED WITHIN THREE (3) DAYS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		MATERIAL AND EQUIPMENT STORAGE	
RECORD COPY SIGNED BY SAM ANGOORI	04/03/09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 9 OF 9



LONG TERM AND INTERMEDIATE TERM STATIONARY WORK

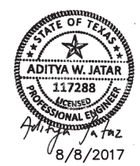


TUBULAR MARKERS CONES

SHORT TERM AND SHORT DURATION WORK

SEE STANDARD 804S-5
SHEET 12 OF 13 AND SHEET 13 OF 13
FOR GENERAL NOTES AND DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		CHANNELIZING DEVICES	
RECORD COPY SIGNED BY SAM ANGOORI	01/04/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 1 OF 13



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CHANNELIZING DEVICES

1. ALL CHANNELIZING DEVICES SHALL HAVE WARNING LIGHTS OR LARGE REFLECTORS WHEN USED AT NIGHT. FLASHING WARNING LIGHTS MAY BE PLACED ON CHANNELIZING DEVICES USED SINGULARLY OR IN GROUPS TO MARK A SPOT CONDITION. WARNING LIGHTS ON CHANNELIZING DEVICES USED IN A SERIES SHALL BE STEADY-BURN. CHANNELIZING DEVICES IN TAPERS AT NIGHT SHALL HAVE TYPE C WARNING LIGHTS.
2. THE RETROREFLECTIVE MATERIAL USED ON CHANNELIZING DEVICES SHALL HAVE A SMOOTH, SEALED OUTER SURFACE.
3. THE NAME AND TELEPHONE NUMBER OF THE AGENCY, CONTRACTOR OR SUPPLIER SHALL BE SHOWN ON THE NON-RETROREFLECTIVE SURFACE OF ALL CHANNELIZING DEVICES. THE LETTERS AND NUMBERS SHALL BE A NON-RETROREFLECTIVE COLOR AND NOT OVER 50 mm (2") IN HEIGHT.
4. PARTICULAR ATTENTION SHOULD BE GIVEN TO ASSURE THAT CHANNELIZING DEVICES ARE MAINTAINED AND KEPT CLEAN, VISIBLE AND PROPERLY POSTITIONED AT ALL TIMES. DEVICES SHALL BE REPLACED THAT ARE DAMAGED AND HAVE LOST A SIGNIFICANT AMOUNT OF THEIR RETROREFLECTIVITY AND EFFECTIVENESS.

CONES

CONES SHALL PREDOMINANTLY BE ORANGE, FLUORESCENT RED-ORANGE, OR FLUORESCENT YELLOW-ORANGE IN COLOR, NOT LESS THAN 70 mm (28") IN HEIGHT, AND SHALL BE MADE OF A MATERIAL THAT CAN BE STRUCK WITHOUT DAMAGING VEHICLES ON IMPACT. FOR NIGHT TIME USE, CONES SHALL BE RETROREFLECTIVE OR EQUIPPED WITH LIGHTING DEVICES FOR MAXIMUM VISIBLITY. RETROREFLECTION OF CONES SHALL BE PROVIDED BY A WHITE BOND 150 mm (6") WIDE, NO MORE THAN 75 TO 100 mm (3 TO 4") FROM THE TOP OF THE CONE, AND AN ADDITIONAL 100 mm (4") WHITE BAND A MINIMUM OF 50 mm (2") BELOW THE 150 mm (6") BAND. TRAFFIC CONES ARE NORMALLY USED FOR SHORT-TERM STATIONARY AND SHORT DURATION WORK. HOWEVER, CONES MAY BE USED FOR INTERMEDIATE-TERM STATIONARY WORK AT NIGHT, IF THE SITE IS CONTINUOUSLY MANNED.

TUBULAR MARKERS

TUBULAR MARKERS SHALL PREDOMINANTLY BE ORANGE IN COLOR, NOT LESS THAN 700 mm (28") IN HEIGHT , A MINIMUM 50 mm (2") WIDE WHEN FACING TRAFFIC AND MADE OF A MATERIAL THAT CAN BE STRUCK WITHOUT DAMAGING VEHICLES. FOR NIGHT TIME USE, TUBLULAR MARKERS SHALL BE RETROREFLECTIVE PROVIDED BY TWO (2) 75 mm (3") WIDE WHITE BANDS PLACED A MAXIMUM OF 50 mm (2") FROM THE TOP, WITH A MAXIMUM OF 150 mm (6") BETWEEN BANDS. TUBULAR MARKERS ARE NORMALLY USED FOR SHORT-TERM STATIONARY AND SHORT DURATION WORK. HOWEVER, TUBULAR MARKERS MAY BE USED FOR INTERMEDIATE-TERM STATIONARY WORK AT NIGHT, IF THE SITE IS CONTINUOUSLY MANNED.

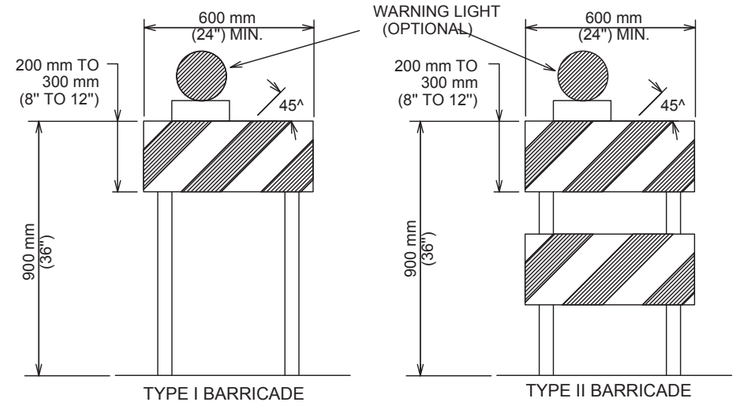
VERTICAL PANELS

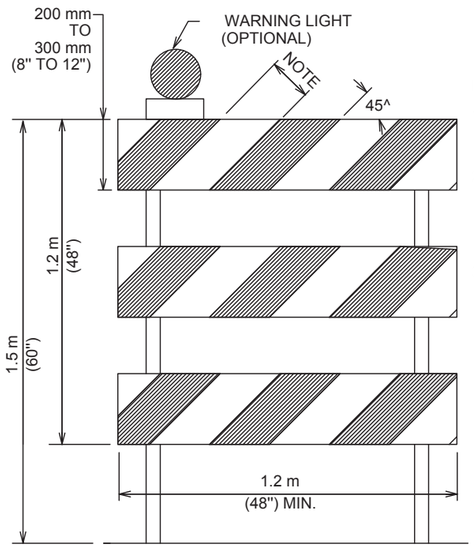
VERTICAL PANELS SHALL BE 200 TO 300 mm (8 TO 12") WIDE AND AT LEAST 600 mm (24") IN HEIGHT. THEY SHALL HAVE ORANGE AND WHITE STRIPES, AND BE RETROREFLECTIVE. PANEL STRIPE WIDTHS SHALL BE 150 mm (6") EXCEPT WHERE PANEL HEIGHTS ARE LESS THAN 900 mm (36"), WHEN 100 mm (4") STRIPES MAY BE USED. IF USED FOR TWO-WAY TRAFFIC, BACK-TO-BACK PANELS SHALL BE USED.

DRUMS

1. DRUMS USED FOR TRAFFIC WARNING OR CHANNELIZATION SHALL BE CONSTRUCTED OF LIGHT-WEIGHT FLEXIBLE AND DEFORMABLE MATERIALS AND BE A MINIMUM OF 900 mm (36") IN HEIGHT, AND HAVE AT LEAST 450 mm (18") MINIMUM WIDTH, REGARDLESS OF OREINTATION. STEEL DRUMS SHALL NOT BE USED. THE MARKINGS ON DRUMS SHALL BE HORIZONTAL, CIRCUNFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES 100 TO 200 mm (4 TO 8") WIDE. EACH DRUM SHALL HAVE A MINIMUM OF TWO (2) ORANGE AND TWO (2) WHITE STRIPES. ANY NON-RETROREFLECTIVE SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES, SHALL NOT EXCEED 50 mm (2") WIDE. DRUMS SHALL HAVE CLOSED TOPS THAT WILL NOT ALLOW COLLECTION OF ROADWORK OR OTHER DEBRIS.
2. DRUMS SHOULD NOT BE WEIGHTED WITH SAND, WATER OR ANY MATERIAL TO AN EXTENT THAT WOULD MAKE THE HAZARDOUS TO MOTORISTS, PEDESTRIANS OR WORKERS. WHEN THEY ARE USED IN REGIONS SUSCEPTIBLE TO FREEZING, THEY SHOULD HAVE DRAINAGE HOLES IN THE BOTTOM SO WATER WILL NOT ACCUMULATE AND FREEZE,CAUSING A HAZARD IF STRUCK BY A MOTORIST. BALLAST SHALL NOT BE PLACED ON TOP OF THE DRUM.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		CHANNELIZING DEVICES	
RECORD COPY SIGNED BY SAM ANGOORI	*01/04/10* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 2 OF 13





TYPE III BARRICADE

NOTES:

1. NOMINAL LUMBER DIMENSIONS ARE SATISFACTORY FOR BARRICADE RAIL WIDTH DIMENSIONS.
2. RAIL STRIPE WIDTHS SHALL BE 150 mm (6") EXCEPT WHERE RAIL LEGNTHS ARE LESS THAN 900 mm (36"), THEN 100 mm (4") WIDE STRIPES MAY BE USED.
3. THE SIDE OF BARRICADES FACING TRAFFIC SHALL HAVE RETRO-REFLECTIVE RAIL FACES.

SEE STANDARD 804S-5
SHEET 12 OF 13 AND SHEET 13 OF 13
FOR GENERAL NOTES AND DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		BARRICADES	
RECORD COPY SIGNED BY SAM ANGOORI	*01/04/10* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 3 OF 13

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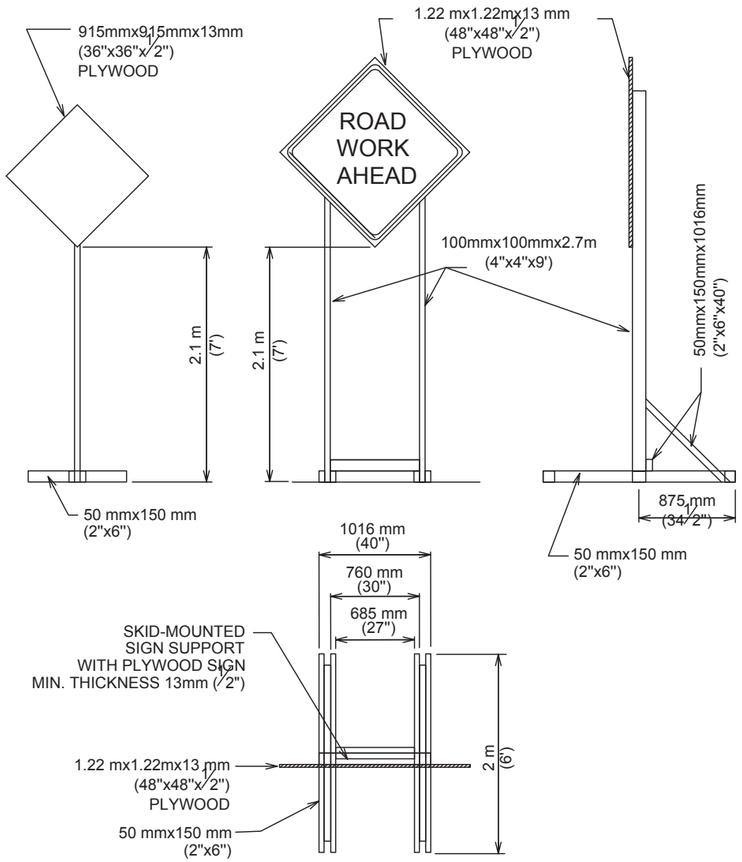
BARRICADES

1. BARRICADES SHALL BE OF THREE TYPES: TYPE I, TYPE II OR TYPE III.
2. STRIPES ON BARRICADE RAILS SHALL BE ALTERNATING ORANGE AND WHITE RETRO-REFLECTIVE STRIPES (SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS). THE STRIPES SHALL BE 150 mm (6") WIDE, EXCEPT WHERE RAIL LENGTHS ARE LESS THAN 900 mm (36"), WHEN 100 mm (4") WIDE STRIPES MAY BE USED.
3. WHERE A BARRICADE EXTENDS ENTIRELY ACROSS A ROADWAY, THE SURFACE STRIPES SHOULD SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN. WHERE BOTH RIGHT AND LEFT TURNS ARE PROVIDED, THE STRIPES MAY SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE OR BARRICADES. WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES.
4. BARRICADE RAILS SHOULD BE SUPPORTED IN A MANNER THAT WILL ALLOW THEM TO BE SEEN BY THE MOTORIST AND PROVIDE A STABLE SUPPORT NOT EASILY BLOWN OVER BY THE WIND OR TRAFFIC. FOR TYPE I BARRICADES, THE SUPPORT MAY INCLUDE OTHER UNSTRIPED HORIZONTAL PANELS NECESSARY TO PROVIDE STABILITY.
5. BARRICADES ARE LOCATED ADJACENT TO TRAFFIC AND ARE THEREFORE SUBJECT TO IMPACT WITH ERRANT VEHICLES. BECAUSE OF THEIR VULNERABLE POSITION AND THE HAZARD THEY COULD CREATE, THEY SHOULD BE CONSTRUCTED OF LIGHTWEIGHT MATERIALS AND HAVE NO RIGID STAY BRACING FOR A-FRAME DESIGNS. ALL BARRICADE SYSTEMS SHOULD BE CRASHWORTHY.
6. ON HIGH-SPEED EXPRESSWAYS OR IN OTHER SITUATION WHERE BARRICADES MAY BE SUSCEPTIBLE TO OVERTURING IN THE WIND, SANDBAGS SHOULD BE USED FOR BALLASTING. SANDBAGS MAY BE PLACED ON PARTS OF THE FRAME OR STAYS TO PROVIDE THE REQUIRED BALLAST BUT SHALL NOT BE PLACED ON TOP OF ANY STRIPED RAIL. BARRICADES SHALL NOT BE BALLASTED BY HEAVY OBJECTS SUCH AS ROCKS OR CHUNKS OF CONCRETE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		BARRICADES	
RECORD COPY SIGNED BY SAM ANGOORI	*01/04/10* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 4 OF 13



(LONG TERM AND INTERMEDIATE-TERM STATIONARY WORK)

TEMPORARY SIGN SUPPORT

SEE STANDARD 804S-5
SHEET 12 OF 13 AND SHEET 13 OF 13
FOR GENERAL NOTES AND DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TRAFFIC CONTROL SIGNS	
RECORD COPY SIGNED BY SAM ANGOORI	*01/04/10* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 5 OF 13

STATE OF TEXAS
ADITYA W. JATAR
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LICENSED
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8/8/2017

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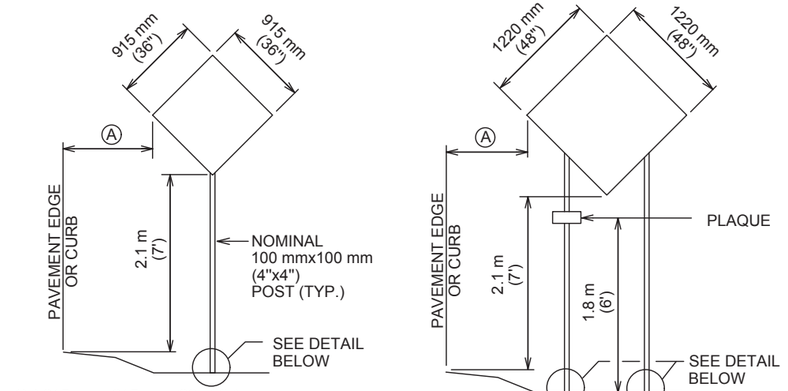
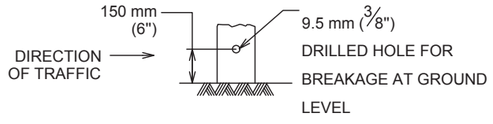


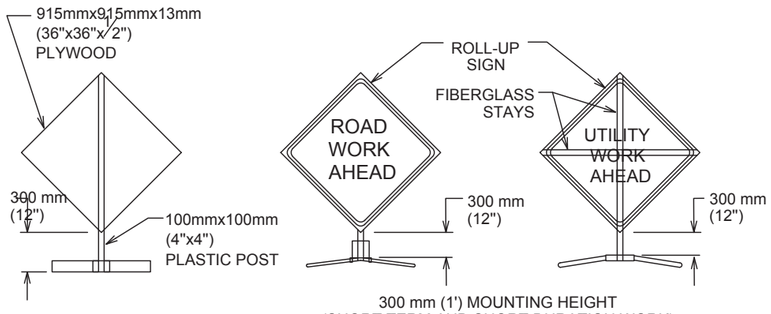
FOR 915 mmx 915 mm (36"x36") AND SMALLER WARNING SIGNS & OTHER SIGNS HAVING AN AREA NOT EXCEEDING 1 sm (10.7 sf).

Ⓐ 610 mm (2') MINIMUM (REFER TO TMUTCD)

FOR 1220 mm x 1220 mm (48"x48") WARNING SIGNS.



WOOD POST SIGN SUPPORT USED AS FIXED SIGN SUPPORTS



300 mm (1') MOUNTING HEIGHT (SHORT TERM AND SHORT DURATION WORK)

PORTABLE SIGN SUPPORT

SEE STANDARD 804S-5
SHEET 12 OF 13 AND
SHEET 13 OF 13 FOR
GENERAL NOTES AND DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TRAFFIC CONTROL SIGNS	
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ADOPTED			6 OF 13

1. WARNING SIGNS SHALL BE ORANGE, FLUORESCENT RED-ORANGE OR FLUORESCENT YELLOW-ORANGE IN COLOR. THE FLUORESCENT VERSIONS OF ORANGE PROVIDE HIGHER CONSPICUITY THAN STANDARD ORANGE, ESPECIALLY DURING TWILGHT. ALL SIGNS USED AT NIGHT SHALL BE EITHER RETRORE-FLECTIVE, WITH A MATERIAL THAT HAS A SMOOTH, SEALED OUTER SURFACE, OR ILLUMINATED TO SHOW SIMILAR SHAPE AND COLOR BOTH DAY AND NIGHT. SIGN ILLUMINATION MAY BE EITHER IN-TERNAL OR EXTERNAL. ROADWAY LIGHTING DOES NOT MEET THE REQUIREMENTS FOR SIGN ILLUMINATION.
2. TYPE A FLASHING WARNING LIGHTS MAY BE USED IN CONJUNCTION WITH SIGNS AT NIGHT. STANDARD ORANGE FLAGS MAY BE USED FOR DAY TIME OPERATIONS. HOWEVER, NEITHER LIGHTS NOR FLAGS MAY BLOCK THE SIGN LEGEND.
3. SIGNS SHOULD BE LOCATED ON THE RIGHT-HAND SIDE OF THE ROADWAY. WHEN SPECIAL EMPHASIS IS NEEDED, SIGNS MAY BE PLACE ON BOTH THE LEFT AND RIGHT SIDES OF ROADWAY. SIGNS SHALL BE PLACED ON BOTH THE LEFT AND RIGHT SIDES OF ONE-WAY OR DIVIDED ROADWAYS. SIGNS USED FOR LONG-TERM STATIONARY AND INTERMEDIATE-TERM STATIONARY WORK SHALL BE MOUNTED AT A HEIGHT OF AT LEAST 2.1 m (7'), MEASURED FROM THE BOTTOM OF THE SIGN. THE HEIGHT TO THE BOTTOM OF A SECONDARY SIGN MOUNTED BELOW ANOTHER SIGN MAY BE O.3 m (1') LESS THAN THE APPROPRIATE HEIGHT ABOVE.
4. SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, MOBILE CON-DITIONS AND EMERGENCIES. SIGNS MOUNTED ON PORTABLE SUPPORTS SHALL BE AT A HEIGHT OF AT LEAST 0.3 m (1'), MEASURED FROM THE BOTTOM OF THE SIGN.
5. ALL SIGN SYSTEMS SHOULD BE CRASHWORTHY. NO SIGN MOUNTS SHALL BLOCK OR IMPEDE SIDEALKS UNLESS NO OTHER OPTION IS AVAILABLE. ONLY SANDBAGS SHOULD BE USED FOR BALLASTING SIGN MOUNTS.

TABLE VI-3 TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING

Roadway Classification	Posted Speed	Sign Spacing ☆	Long-term Stationary Or Intermediate-term Stationary Approaching Warning Signs CW20 Series And CW22-1 Sign		Short-term Stationary Or Short Duration Approach Warning Signs CW22 Series		Other Warning Signs
			Standard	Minimum[4]	Standard	Minimum[4]	Standard
Conven.	KPH (MPH)	meter (feet)	mm (inches)	mm (inches)	mm (inches)	mm (inches)	mm (inches)
	50 (30)	40 (120)	1220x1220 (48x48)	915x915 (36x36)			
	55 (35)	50 (160)	↓	↓	915x915 (36x36)		915x915 (36x36)
	65 (40)	75 (240)	↓	↓	↓		↓
	70 (45)	100 (320)	↓	Use Standard Size	↓	Use Standard Size	↓
	80 (50)	120 (400)	↓	↓	↓	↓	↓
	90 (55)	150 (500) [2]	↓	↓	↓	↓	↓
	100 (60)	180 (600) [2]	↓	↓	1220x1220 (48x48)	↓	1220x1220 (48x48)
	105 (65)	210 (700) [2]	↓	↓	↓	↓	↓
	115 (70)	240 (800) [2]	↓	↓	↓	↓	↓
Exp. or Fwy	☆☆	☆☆ [3]	↓	↓	☆☆☆	☆☆☆	☆☆☆

☆ MINIMUM DISTANCE FROM WORK TO 1st ADVANCE WARNING SIGN AND/OR DISTANCE BETWEEN EACH ADDITIONAL SIGN.

☆☆ FOR TYPICAL SIGN SPACINGS ON EXPRESSWAYS AND FREEWAYS, REFER TO THE CURRENT ADDITION OF TMUTCD.

☆☆☆ SMALLER SIGN SIZES MAY BE USED WHERE SIGN DESIGNS HAVE NOT BEEN INCLUDED IN THE "STANDARD HIGHWAY SIGNS DESIGN MANUAL".

1. SPECIAL OR LARGER SIZE SIGNS MAY BE USED AS NECESSARY.
2. DISTANCE BETWEEN SIGNS SHOULD BE INCREASED AS REQUIRED TO HAVE 450 m (1500') OR MORE ADVANCE WARNING.
3. DISTANCE BETWEEN SIGNS SHOULD BE INCREASED AS REQUIRED TO HAVE A 0.8 km ($\frac{1}{2}$ MILE) OR MORE ADVANCE WARNING.
4. FOR USE ONLY ON SECONDARY ROADS OR CITY STREETS WHERE SPEEDS ARE LOW.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TRAFFIC CONTROL SIGNS	
RECORD COPY SIGNED BY SAM ANGOORI	*01/04/10*	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5
ADOPTED			7 OF 13

STATE OF TEXAS
ADITYA W. JATAR
117288
LICENSED
PROFESSIONAL ENGINEER
8/8/2017

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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TCP DETAIL 13

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				58

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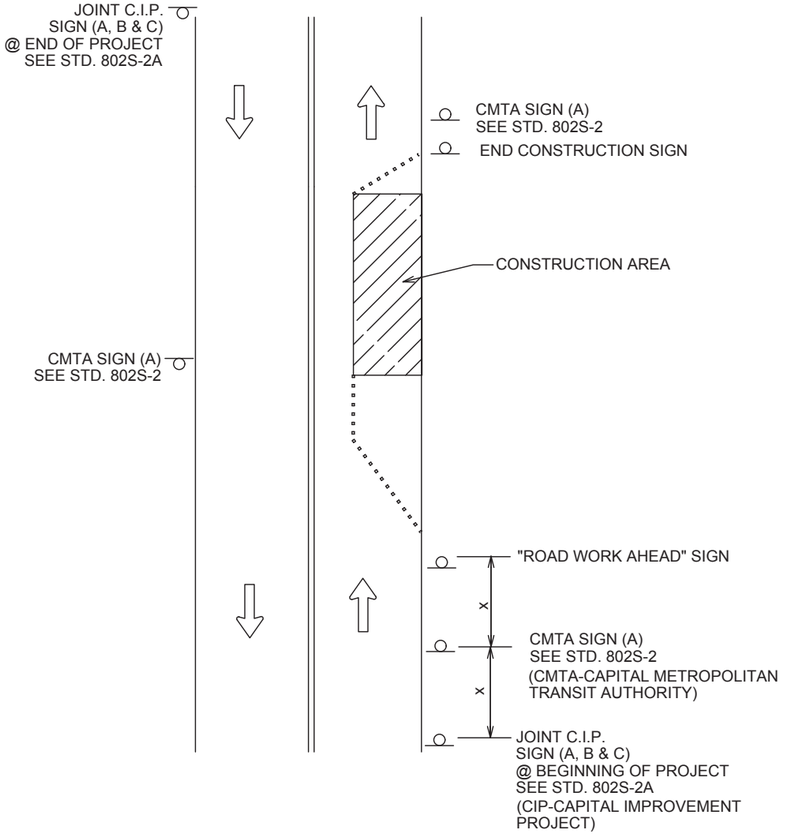
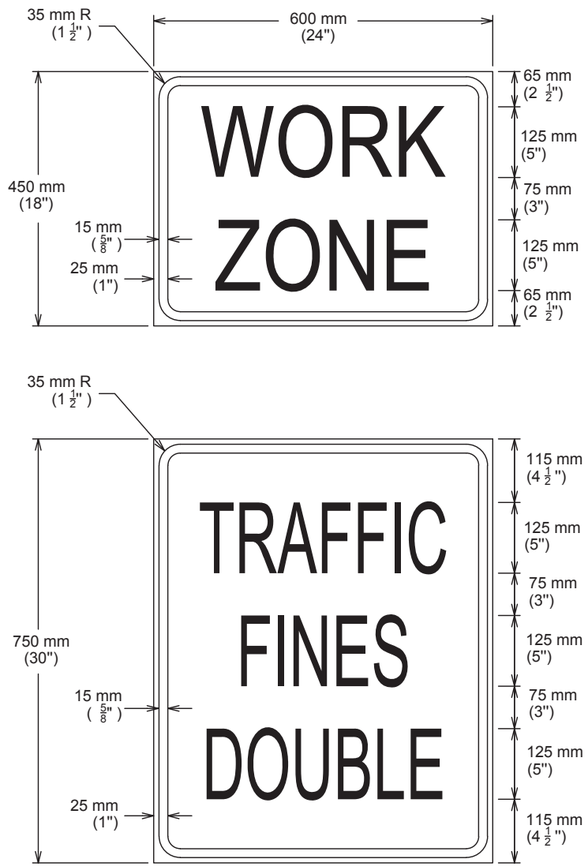


NOTES:

1. OTHER REQUIRED SIGNS NOT SHOWN FOR CLARITY.
2. "X" DISTANCES SAME AS STANDARD TABLE SHOWN ON SHEET 13 OF 13.

SEE STANDARD 804S-5
SHEET 12 OF 13 AND SHEET 13 OF 13
FOR GENERAL NOTES AND DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL CMTA/C.I.P. SIGN LOCATIONS	STANDARD NO.
RECORD COPY SIGNED BY SAM ANGOORI	*01/04/10*	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	804S-5
	ADOPTED		8 OF 13



LETTERS - BLACK
BORDER - BLACK
BACKGROUND - ORANGE
REFL.

LETTERS - BLACK
BORDER - BLACK
BACKGROUND - WHITE
REFL.

SEE STANDARD DETAIL 804S-5
SHEET 5 OF 13 FOR SKID-
MOUNTED SIGN SUPPORT.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SPECIAL WORK ZONE SIGNS	STANDARD NO.
RECORD COPY SIGNED BY SAM ANGOORI	*01/04/10*	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	804S-5
	ADOPTED		9 OF 13

STATE OF TEXAS
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8/8/2017

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TCP DETAIL 14

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				59

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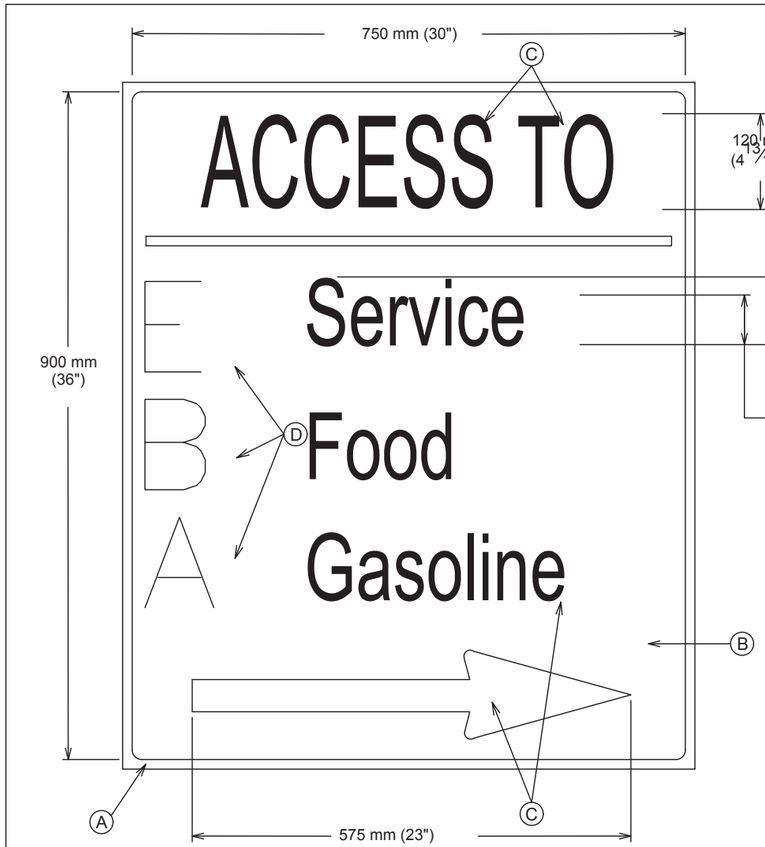
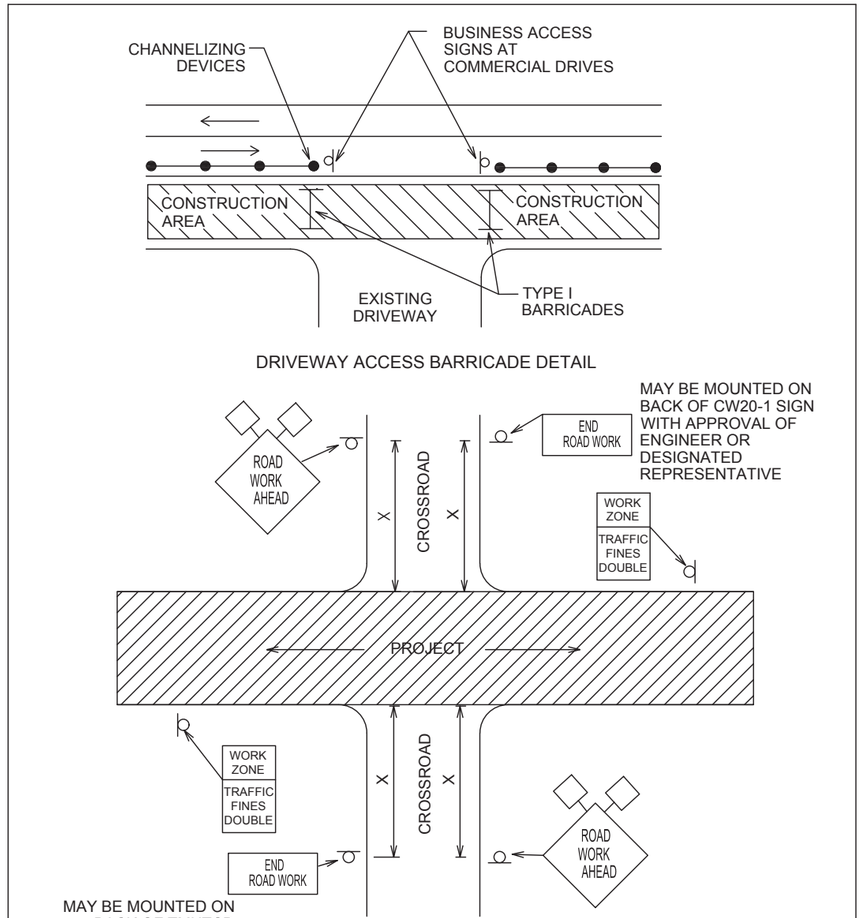


(A) 50 mm (1/2") WHITE RETROREFLECTIVE BORDER
(B) BLUE RETROFEFLECTIVE BACKGROUND
(C) WHITE RETRORFLECTIVE ARROW AND LETTERS
(D) WHITE RETRORFELCTIVE BUSINESS LOGO

NOTES:
1. CONTRACTORS CAN MAKE BUSINESS NAMES REMOVABLE/CHANGEABLE AS AN OPTION.
2. BUSINESS LOGO ARE OPTIONAL. IF USED LETTERING MUST BE MINIMIZED.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SPECIAL WORK ZONE SIGNS	
RECORD COPY SIGNED BY SAM ANGOORI *01/04/10* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 10 OF 13



DRIVEWAY ACCESS BARRICADE DETAIL

MAY BE MOUNTED ON BACK OF CW20-1 SIGN WITH APPROVAL OF ENGINEER OR DESIGNATED REPRESENTATIVE

MAY BE MOUNTED ON BACK OF TMUTCD CW20-1 SIGN WITH APPROVAL OF ENGINEER OR DESIGNATED REPRESENTATIVE (TMUTCD-TEXAS MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES)

CROSSROAD SIGNING AND BARRICADING

SEE STANDARD 804S-5
SHEET 12 OF 13 AND SHEET 13 OF 13
FOR GENERAL NOTES AND DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIGNING AND BARRICADING CROSSROAD & DRIVEWAY	
RECORD COPY SIGNED BY SAM ANGOORI *01/04/10* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 11 OF 13

STATE OF TEXAS
ADITYA W. JATAR
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8/8/2017

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TCP DETAIL 15

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				60

SP-2016-0186D

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1. ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES AND WARNING SIGNS SHALL BE FURNISHED, PLACED, CONSTRUCTED AND MAINTAINED IN THE APPROPRIATE TYPES AND SIZES AND FLAGGER OPERATIONS EXECUTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE TEXAS MANUAL ON UNIFORM CONTROL DEVICES (TMUTCD), THE CITY OF AUSTIN STANDARD SPECIFICATIONS SERIES 800 AND THE CITY OF AUSTIN TRANS-PORTATION CRITERIA MANUAL, OR AS DIRECTED BY THE ENGINEER OR DESIGNATED RE-PRESENTATIVE. IF A CONFLICT ARISES THEN THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL SHALL CONTROL UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
2. THE CONTRACTOR SHALL NOTIFY THE TRANSPORTATION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AT 974-7024 NO LATER THAN THE MONDAY OF THE WEEK DURING WHICH THE CONTRACTOR INTENDS TO SET UP BARRICADES TO START CONSTRUCTION.
3. PROPOSED CONSTRUCTION TRAFFIC MOVEMENTS MAY REQUIRE EXISTING SIGNAL HEADS TO BE RELOCATED. THE CITY OF AUSTIN WILL REVIEW SIGNAL HEAD LOCATIONS DURING CONSTRUCTION AND PERFORM THE REQUIRED ADJUSTMENTS. THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AT 974-7024, THREE (3) DAYS PRIOR TO PLACMENT ANY TRAFFIC CONTROLS WHICH MAY REQUIRE SIGNAL HEAD ADJUSTMENTS/RELOCATION.
4. THE CONTRACTOR SHALL PROVIDE ONE (1) FULL-TIME OFF-DUTY, UNIFORMED AUSTIN POLICE DEPARTMENT CERTIFIED PEACE OFFICER AND ONE (1) VEHICLE OF THE TYPE APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR TEMPORARY LANE CLOSURES WHEN UNDERSEALING, MILLING, PAVING AND WHEN WORKING IN INTERSECTIONS AS PART OF THE TRAFFIC CONTROL OPERATIONS. THE PEACE OFFICER SHALL BE ABLE TO SHOW PROOF OF CERTIFICATION BY THE TEXAS COMMISSION ON LAW ENFORCEMENT OFFICER STANDARDS.
5. THE CONTRACTOR SHALL NOTIFY ALL OTHER GOVERNMENTAL AGENCIES WHOSE RIGHTS-OF-WAY ARE AFFECTED BY HIS WORK ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT THEY MAY NEED.
6. THE CONTRACTOR SHALL MAINTAIN ONE (1) DUST-FREE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR APPROVED THE ENGINEER OR DESIGNATED REPRESENTATIVE.
7. THERE SHALL BE A MINIMUM OF THREE (3) METERS (10 FEET) CLEAR WIDTH FOR EACH LANE OF TRAFFIC IN CHANNELIZED AREAS, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
8. THE CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS AT ALL TIMES. IF ACCESS CANNOT BE MAINTAINED, THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER OR DESIGNATED REPRESENTATIVE SHALL PROVIDE AT LEAST 24 HOUR WRITTEN NOTICE OF LIMITED ACCESS TO AFFECTED PROPERTY OWNERS. THE CONTRACTOR SHALL PROVIDE BUSINESS ACCESS SIGNS AS NEEDED TO NFORM DRIVERS OF THE LOCATIONS OF ALL DRIVEWAYS.
9. TEMPORARY LANE CLOSURES IN THE CENTRAL BUSINESS DISTRICT (CBD) OR ON ARTERIAL STREETS SHALL NOT BE PERMITTED DURING THE HOURS OF 7 AM TO 9 AM AND 4 PM TO 6PM MONDAY THROUGH FRIDAY UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE TRANSPORTATION DIVISION.
10. TRAFFIC CONTROL SHOWN ON STANDARD DETAILS IS TYPICAL. ADDITIONAL SIGNING AND/OR BARRICADING, AS WELL AS TEMPORARY PAVEMENT MARKINGS AND OBLITERATION/RESTORATION OF EXISTING PAVEMENT MARKINGS, MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS. FIELD ADJUSTMENTS TO TRAFFIC CONTROLS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO ITEM NO. 803S "BARRICADES, SIGNS AND TRAFFIC HANDLING".
11. THE CONTRACTOR SHALL DESIGNATE A COMPETENT PERSON FOR TRAFFIC CONTROL. THE COMPETENT PERSON SHALL MAKE INSPECTIONS OF THE TRAFFIC CONTROL DEVICES AT LEAST TWO (2) TIMES A DAY (ONCE AT THE BEGINNING OF THE DAY AND ONCE AT THE END OF THE DAY), INCLUDING NON-WORKING DAYS, ENSURING THAT ALL DEVICES ARE IN THEIR PROPER PLACE AND ARE IN WORKING ORDER.
12. ALL DEVICES SHALL BE MADE USING MATERIALS LISTED ON THE TxDOT APPROVED PRODUCTS LIST.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	GENERAL TRAFFIC CONTROL NOTES	
RECORD COPY SIGNED BY SAM ANGOORI — *01/04/10* — ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 12 OF 13

13. ALL PERSONS WORKING WITHIN THE RIGHT-OF-WAY SHALL WEAR A BRIGHTLY COLORED SAFETY VEST. FOR NIGHTTIME WORK THE VEST SHALL BE RETROREFLECTIVE,
14. WHEN AN INTERSECTION IS CLOSED FOR CONSTRUCTION, THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION IN SUCH A MANNER THAT THE CLOSURE TIME IS MINIMIZED.
15. THE CONTRACTOR SHALL NOTIFY THE CAPITAL METRO DISPATCHER AT 385-4295 ONE (1) WEEK PRIOR TO LANE CLOSURES ADJACENT TO BUS STOPS.

DURATION OF WORK

WORK DURATION IS A MAJOR FACTOR IN DETERMINING THE NUMBER AND TYPES OF DEVICES USED IN TEMPORARY TRAFFIC ZONES. THE FIVE (5) CATEGORIES OF WORK DURATION AND THEIR TIME AT A LOCATION ARE AS FOLLOWS:

- LONG-TERM STATIONARY-WORK THAT OCCUPIES A LOCATION FOR MORE THAN 3 DAYS.
- INTERMEDIATE-TERM STATIONARY-WORK THAT OCCUPIES A LOCATION FROM OVERNIGHT TO 3 DAYS.
- SHORT-TERM STATIONARY-DAYTIME WORK THAT OCCUPIES A LOCATION FROM 1 TO 12 HOURS.
- SHORT-DURATION WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
- MOBILE-WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

Typical Transition Lengths and Suggested Maximum Spacing of Devices

Posted Speed KPH (MPH)	Formula	Minimum Desirable Taper Lengths (L) Meters (Feet) 3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)	Suggested Max. Device Spacing: On a taper Meters (feet)	On a tangent Meters (feet)	Suggested Sign Spacing Meters (Feet) "X" Dimension
50 (30)	$L=\frac{WS^2}{60}$	45 (150)	50 (165)	55 (180)	9 (30)	15-20 (60-75)	40 (120)
55 (35)		65 (205)	70 (225)	75 (245)	10 (35)	25-25 (70-90)	50 (160)
65 (40)		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
70 (45)	L=WS	135 (450)	(495)	165 (540)	13 (45)	25-30 (90-110)	100 (320)
80 (50)		150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-125)	120 (400)
90 (55)		165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-140)	150 (500)
100 (60)		180 (600)	200 (660)	220 (720)	18 (60)	40-45 (120-150)	180 (600)
105 (65)		195 (650)	215 (715)	235 (780)	19 (65)	40-50 (130-165)	210 (700)
115 (70)		215 (700)	235 (770)	255 (840)	21 (70)	45-55 (140-175)	240 (800)

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	GENERAL TRAFFIC CONTROL NOTES	
RECORD COPY SIGNED BY SAM ANGOORI — *01/04/10* — ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 13 OF 13

NOTES:

1. ANY DETAILS WHICH ARE NOT CITY OF AUSTIN STANDARDS HAVE BEEN PROVIDED BY THE ENGINEER AND ARE SIGNED AND SEALED BY ENGINEER FOR USE ON THIS PROJECT.

STATE OF TEXAS
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8/8/2017

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WILLIAMSON COUNTY 1848

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6	TEXAS	104023–10006	_	14	WILLIAMSON				61

SP-2016-0186D

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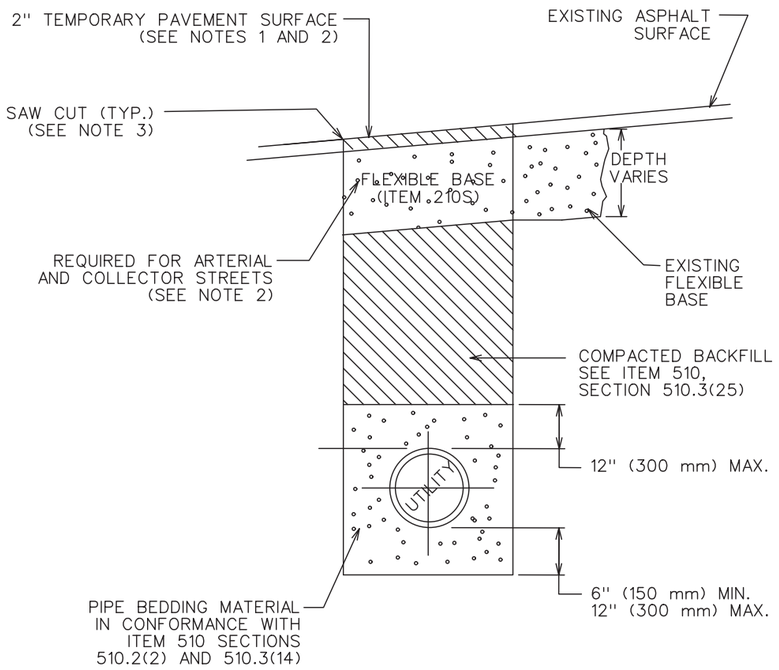
TEMPORARY TRENCH REPAIR IN ASPHALTIC SURFACE
ITEM 510 SECTION 510.3 (25)(h)



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TEMPORARY TRENCH REPAIR- ASPHALT SURFACE	
RECORD COPY SIGNED BY BILL GARDNER	*12/09/08* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-4 1 OF 2

1. TEMPORARY PAVEMENT REPAIRS SHALL BE ALLOWED NO LONGER THAN 90 DAYS AFTER PASSING THE WATER PRESSURE AND/OR WASTEWATER MANDREL TESTS. IF TEMPORARY PAVEMENT REPAIRS ARE TO REMAIN IN PLACE FOR A PERIOD EXCEEDING 90 DAYS, ON ANY SINGLE TRENCH LINE OR INDIVIDUAL STREET, SUCH TEMPORARY PAVEMENT SHALL BE HMAC, PLACED AND COMPACTED SUFFICENTLY TO WITHSTAND THE ANTICIPATED TRAFFIC LOADS OVER THE DURATION OF THE TEMPORARY REPAIR.
2. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE USING COLD MIX AC IN ACCORDANCE WITH TxDOT "DMS-9203, RAPID CURING ASPHALT CONCRETE PATCHING MATERIAL" OR TEMPORARY HMAC PER COA ITEM "340S HOT MIX ASPHALTIC CONCRETE PAVEMENT". A MINIMUM OF TWO INCHES (2") OF TEMPORARY COLD MIX OR HMAC SHALL BE PLACED OVER COMPACTED BACKFILL. FLEXIBLE BASE SHALL ALSO BE REQUIRED, FOR ALL COLLECTOR OR ARTERIAL STREETS.
3. THE EXISTING CONCRETE OR ASPHALT PAVING SURFACE SHALL BE SAW CUT. SAW CUTS SHALL BE IN A STRAIGHT LINE, ALONG THE SIDES OF THE TRENCH (OR MANHOLE EXCAVATION) AND SYMMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION. ANY DAMAGED EDGES SHALL BE RE-SAW CUT IF REQUIRED BY THE OWNER.
4. HMAC OR COLD MIX SHALL BE FREE OF CONTAMINATION, AS DETERMINED BY A VISUAL INSPECTION BY THE OWNER'S REPRESENTATIVE, REFERENCE ITEM 340S SECTION 340S.10 A.
5. TEMPORARY PAVING MATERIAL MUST BE COMPACTED WITH A SMOOTH DRUM VIBRATORY ROLLER.
6. THE FINISHED SURFACE SHALL BE MAINTAINED DUST FREE AND PROVIDE A SMOOTH AND SAFE RIDING SURFACE FOR ALL VEHICLES ALONG THE ROUTE, INCLUDING, BUT NOT LIMITED TO SMALL CARS, MOTORCYCLES, MOPEDS AND BICYCLES. THE TEMPORARY SURFACE SHALL BE MAINTAINED BY THE CONTRACTOR THE ENTIRE TIME THE TEMPORARY SURFACE IS IN PLACE. DAILY MAINTENANCE SHALL BE PERFORMED BASED ON FIELD CONDITIONS AND AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE, UNTIL THE FINAL PAVEMENT SURFACE IS PLACED.
7. THE TEMPORARY PAVEMENT SURFACE SHALL HAVE A MAXIMUM ALLOWABLE DEVIATION OF ¼" ABOVE OR BELOW THE EXISTING PAVEMENT SURFACE DIRECTLY ADJACENT TO THE PATCH.
8. ANY PORTIONS OF THE TEMPORARY PAVEMENT SURFACE THAT HAVE SETTLED, BECOME DAMAGED, OR DETERIORATED MUST BE REPAIRED BY REMOVING THE EXISTING TEMPORARY SURFACE MATERIAL TO A MINIMUM DEPTH OF 2" BELOW THE SURFACE ELEVATION PRIOR TO REPLACING AND RECOMPACTING NEW COLD MIX/HOT MIX IN THE EXCAVATION AREA.
9. IF IT IS DETERMINED DURING CORRECTIVE ACTION THAT SOFT, SATURATED AND/OR UNSTABLE SUBSURFACE SOILS ARE CONTRIBUTING TO THE FAILURE OF THE TEMPORARY PAVEMENT SECTION, THE UNSUITABLE MATERIALS MUST BE REMOVED AND REPLACED WITH BACKFILL SOILS FREE OF ORGANICS, STONES OR ROCKS OVER 8 INCHES, AND HAVING A PLASTICITY INDEX OF 20 OR LESS, AND SHALL HAVE A MC WITHIN 2% OF OPTIMUM, PRIOR TO REPLACING THE TEMPORARY PAVEMENT SURFACE.
10. CLASS "J" PC CONCRETE (ITEM 403S) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
11. ALL EXISTING ROADWAY STRIPING AND PAVEMENT MARKINGS REMOVED OR DAMAGED BY THE CONTRACTOR'S WORK SHALL BE RESTORED PRIOR TO OPENING THE STREET TO TRAFFIC.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TEMPORARY TRENCH REPAIR- ASPHALT SURFACE	
RECORD COPY SIGNED BY BILL GARDNER	*12/09/08* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-4 2 OF 2

NOTES:

1. ANY DETAILS WHICH ARE NOT CITY OF AUSTIN STANDARDS HAVE BEEN PROVIDED BY THE ENGINEER AND ARE SIGNED AND SEALED BY ENGINEER FOR USE ON THIS PROJECT.

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TCP DETAIL 17

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				62

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Lane Channelizing

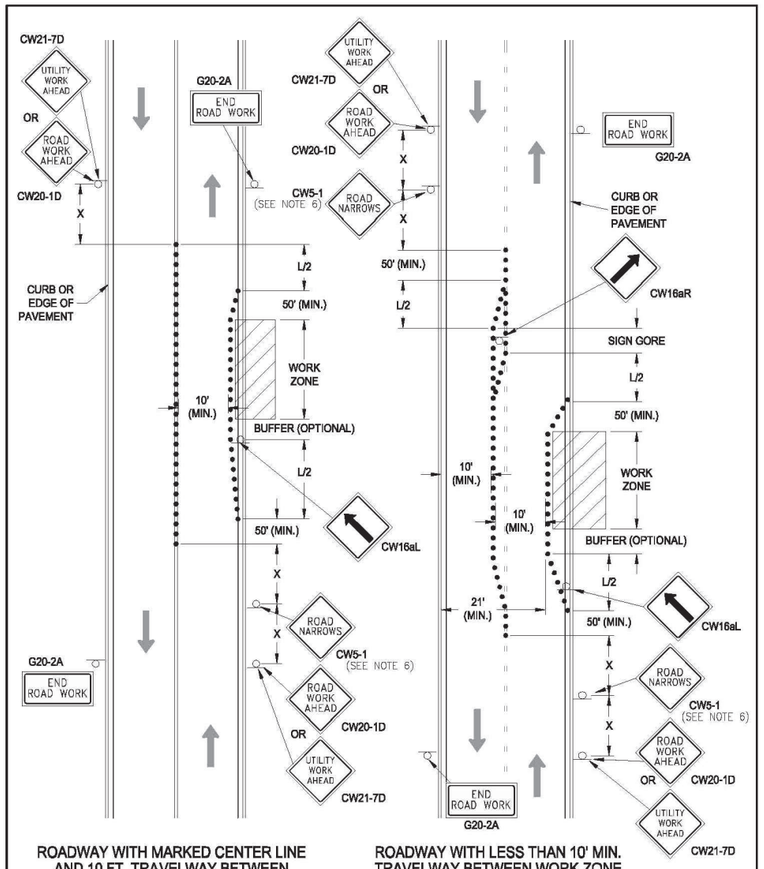
Standard:

1. **All traffic control devices shall be installed by a person trained in work zone traffic control. If requested, this person shall show proof of training certification. Training re-certification shall be required every four (4) years.**
2. **To maintain two way traffic, the total usable roadway surface shall not be less than 21 ft. in width at any time.**
3. **A minimum usable lane width of 10 ft. in each direction shall be provided at all times.**
4. **Conflicting pavement markings shall be covered, removed or obliterated for any work zone lasting 72 hours (3 days) or longer (Long-term stationary duration). See 804S-3.**
5. **For roadways with a posted speed limit of 35 mph or higher, a second ROAD NARROWS (CW5-1) sign shall be added to the advance warning sign string.**

Guidance:

6. Where bike lanes are present, see standard detail 804S-1, 7 of 16 for closure requirements.
7. Curve warning signs may be required depending on field conditions.

LANE CHANNELIZING



ROADWAY WITH MARKED CENTER LINE AND 10 FT. TRAVELWAY BETWEEN WORK ZONE AND CENTER LINE.

ROADWAY WITH LESS THAN 10' MIN. TRAVELWAY BETWEEN WORK ZONE AND CENTER LINE. CENTER LINE PAVEMENT MARKINGS MAY OR MAYNOT BE PRESENT.

LANE CHANNELIZING

NOTES:

1. ANY DETAILS WHICH ARE NOT CITY OF AUSTIN STANDARDS HAVE BEEN PROVIDED BY THE ENGINEER AND ARE SIGNED AND SEALED BY ENGINEER FOR USE ON THIS PROJECT.

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117288
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PROFESSIONAL ENGINEER
8/8/2017

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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TCP DETAIL 18

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				63

SP-2016-0186D

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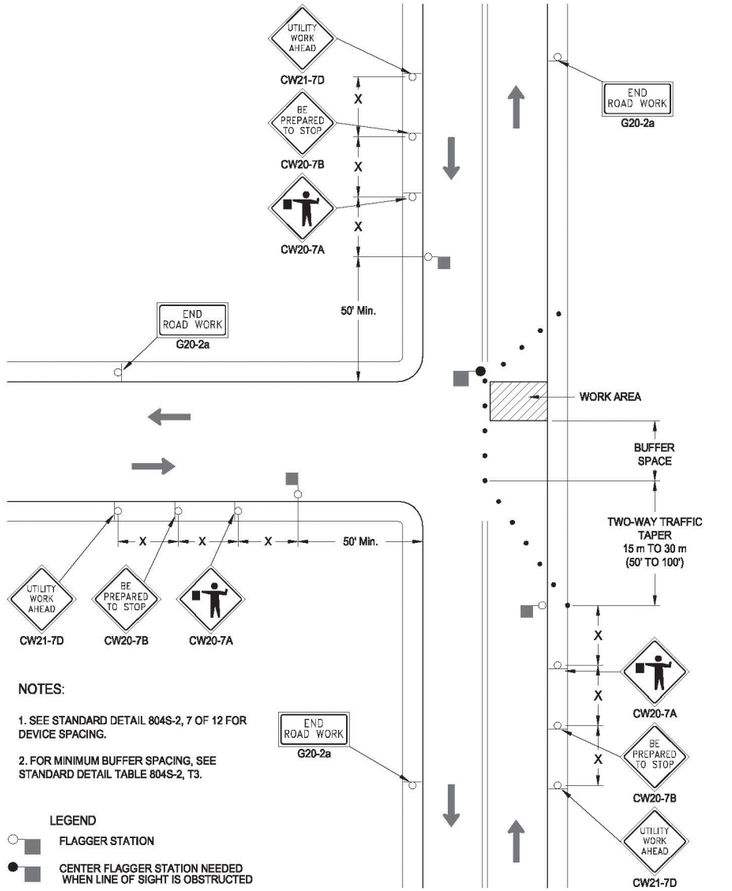

3 APPROACH INTERSECTION FLAGGING OPERATIONS

3 Approach Intersection Flagging Operations

Standard:

1. **Flagger stations shall be located such that approaching road users will have sufficient distance to stop at the intended stopping point.**
2. **All flagger personnel shall follow standard detail 804S-2, 1 & 2 of 11 when conducting flagging operations.**
3. **All flaggers shall have good visual contact or two-way radio contact with each other.**
4. **Flagger stations shall be located far enough in advance of the work space so that approaching road users will have sufficient distance to stop before entering the work space.**

Guidance:

5. Floodlights should be provided as needed to mark flagger stations at night.
6. Table 804S-2, T3:

MINIMUM FLAGGER STATION BUFFER

Speed (mph)	Distance (ft.)
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335

Standard:

7. **An Austin Police Officer shall be present for flagging operations performed at a traffic signal controlled intersection.**

3 APPROACH INTERSECTION FLAGGING OPERATIONS

NOTES:

1. ANY DETAILS WHICH ARE NOT CITY OF AUSTIN STANDARDS HAVE BEEN PROVIDED BY THE ENGINEER AND ARE SIGNED AND SEALED BY ENGINEER FOR USE ON THIS PROJECT.

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Bike Lane Closure

Definitions:

Bicycle Lane A portion of a roadway that has been designated by signs and pavement markings for preferential or exclusive use by bicycles.

Bicycle Lane Transition, (L_b) The bicycle lane transition length based on a 7 ft. wide bike lane and an assumed bicycle speed of 10mph.

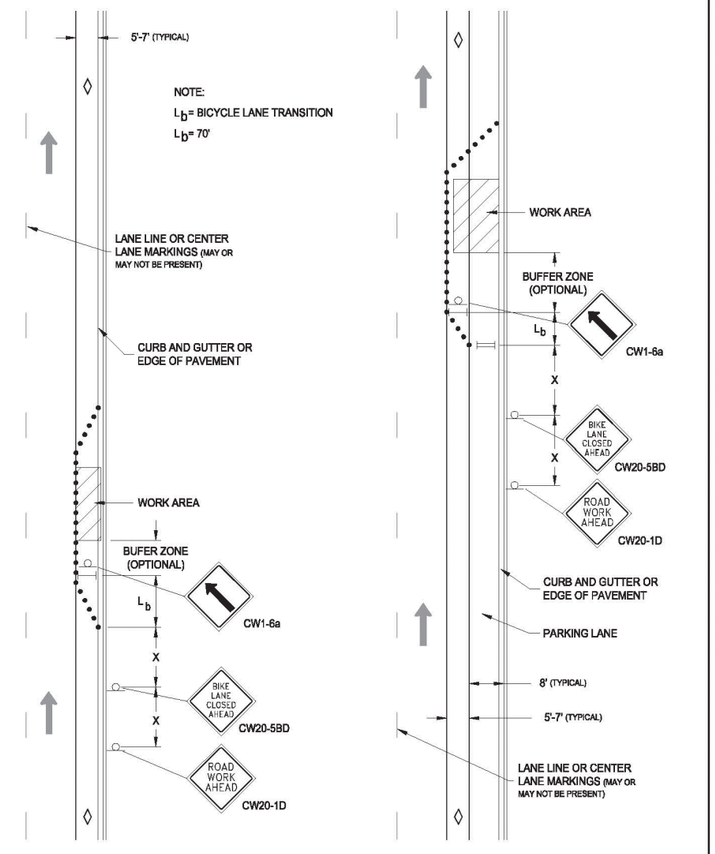
Standard:

1. **A bike lane closure shall be used anytime work activity encroaches into a portion of or closes a bicycle lane.**
2. **Advance warning signs for a bicycle lane closure shall consist of a Road Work/Utility Work Ahead sign and a Bike Lane Closed sign.**
3. **Where signs serve both bicyclists and other road users, vertical mounting height and lateral placement shall be as specified in 804S-5, 6 & 7 of 13.**
4. **If a sign applies to motorists and bicyclists, then the size shall be as shown for conventional roads in 804S-5, 6 & 7 of 13.**
5. **A type-I barricade shall be set at the end of the bike lane transition area to physically close the bike lane to prevent bicyclist's entry into the work zone.**
6. **A CW1-6a (Slant Arrow) sign shall be placed behind the type-I barricade to inform road users of the shared pathway around the work area.**

Guidance:

7. Where work activity is expected to block a traffic lane of a roadway with a bicycle lane, a Bike Lane Closure should be set prior to the traffic lane closure.

BIKE LANE CLOSURE



BIKE LANE CLOSURE

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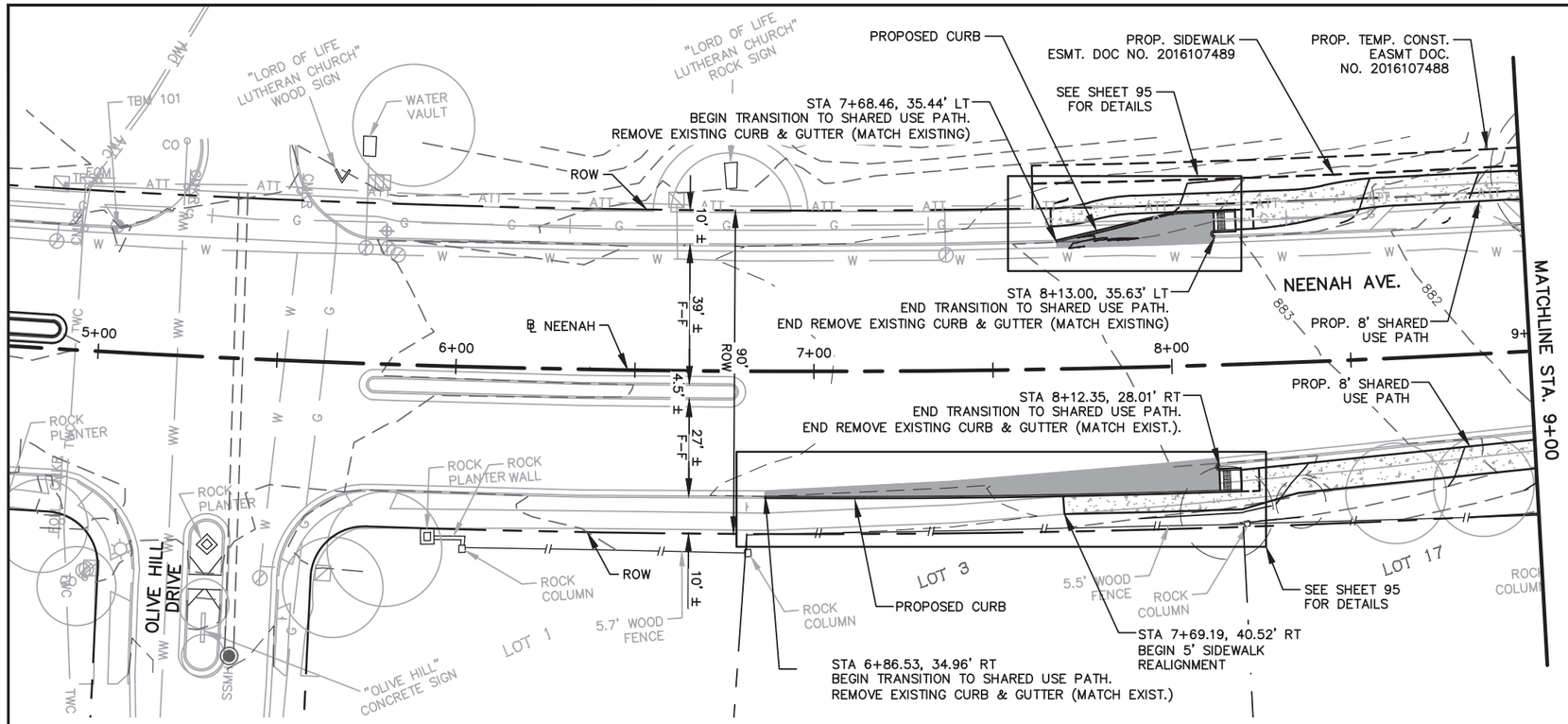

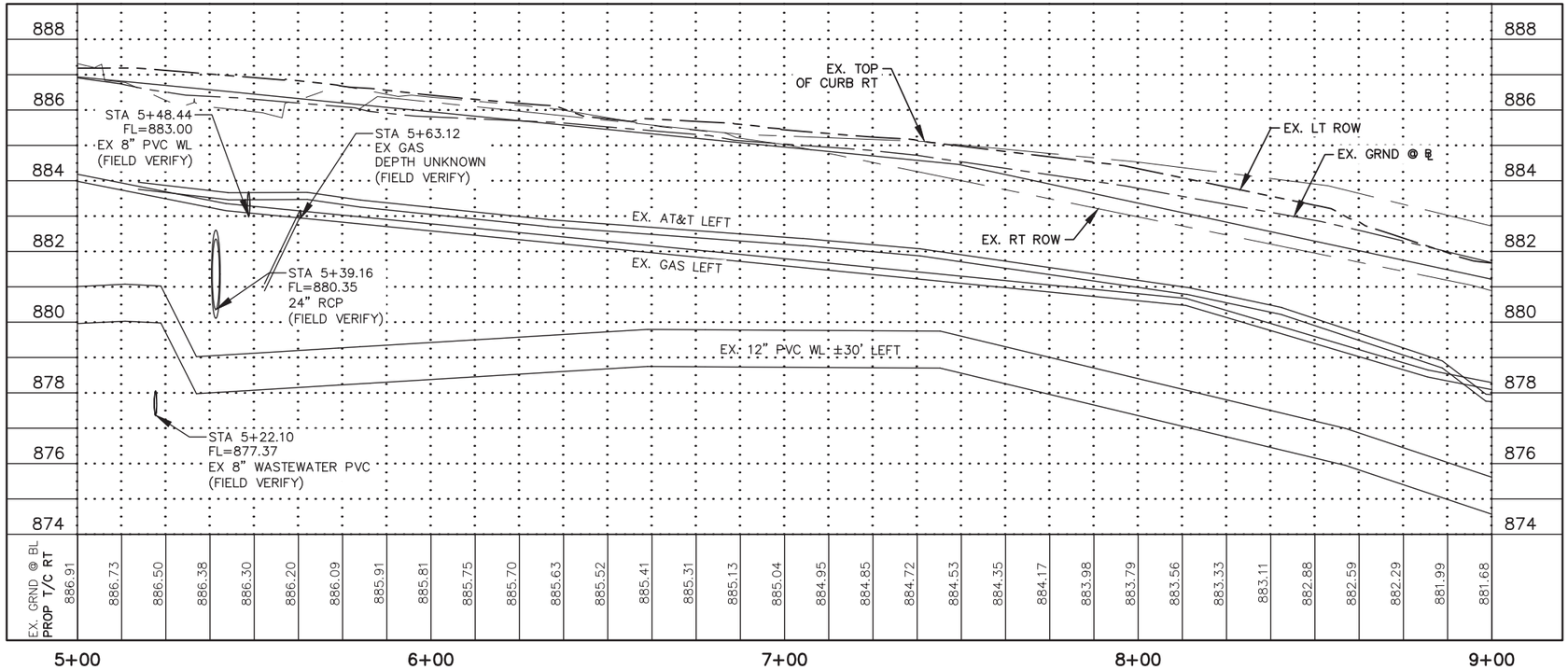

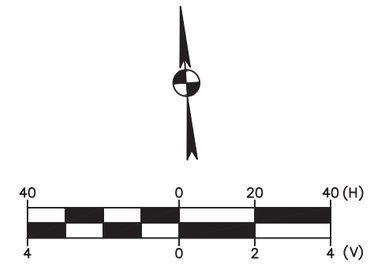

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8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
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Stephanie D Blew

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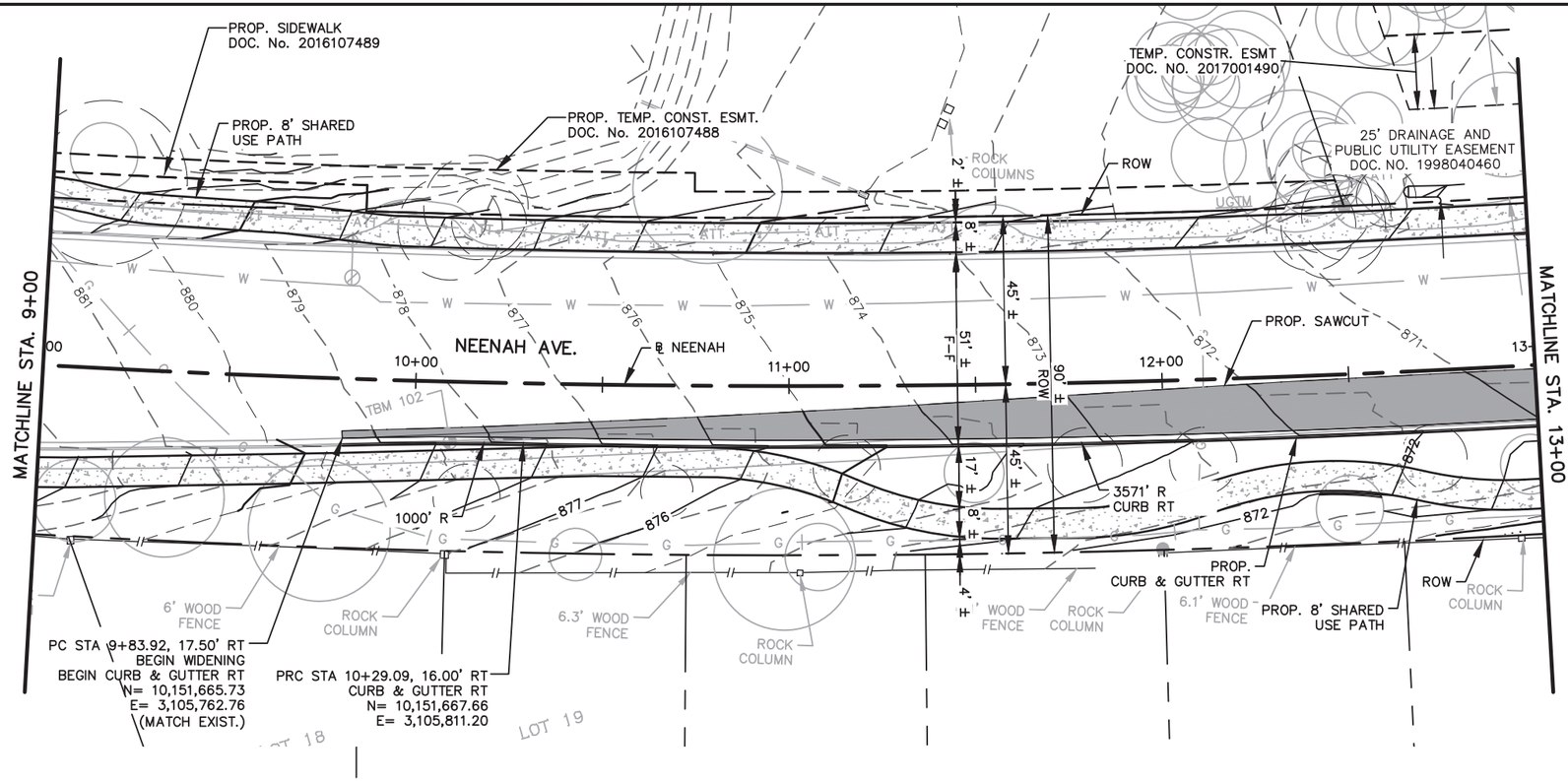

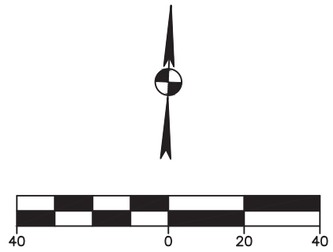

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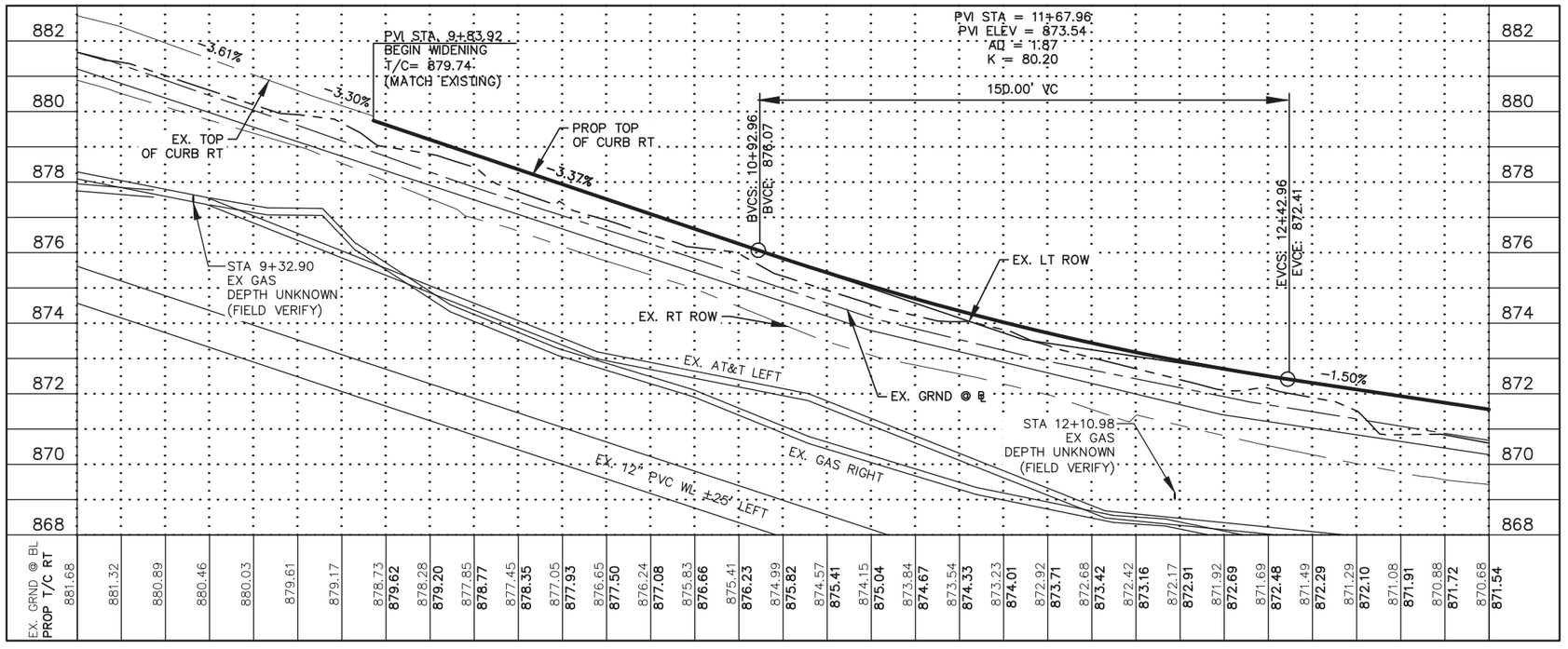

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SHEET 67 OF 273

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6	TEXAS	104023–10006	_	14	WILLIAMSON				67

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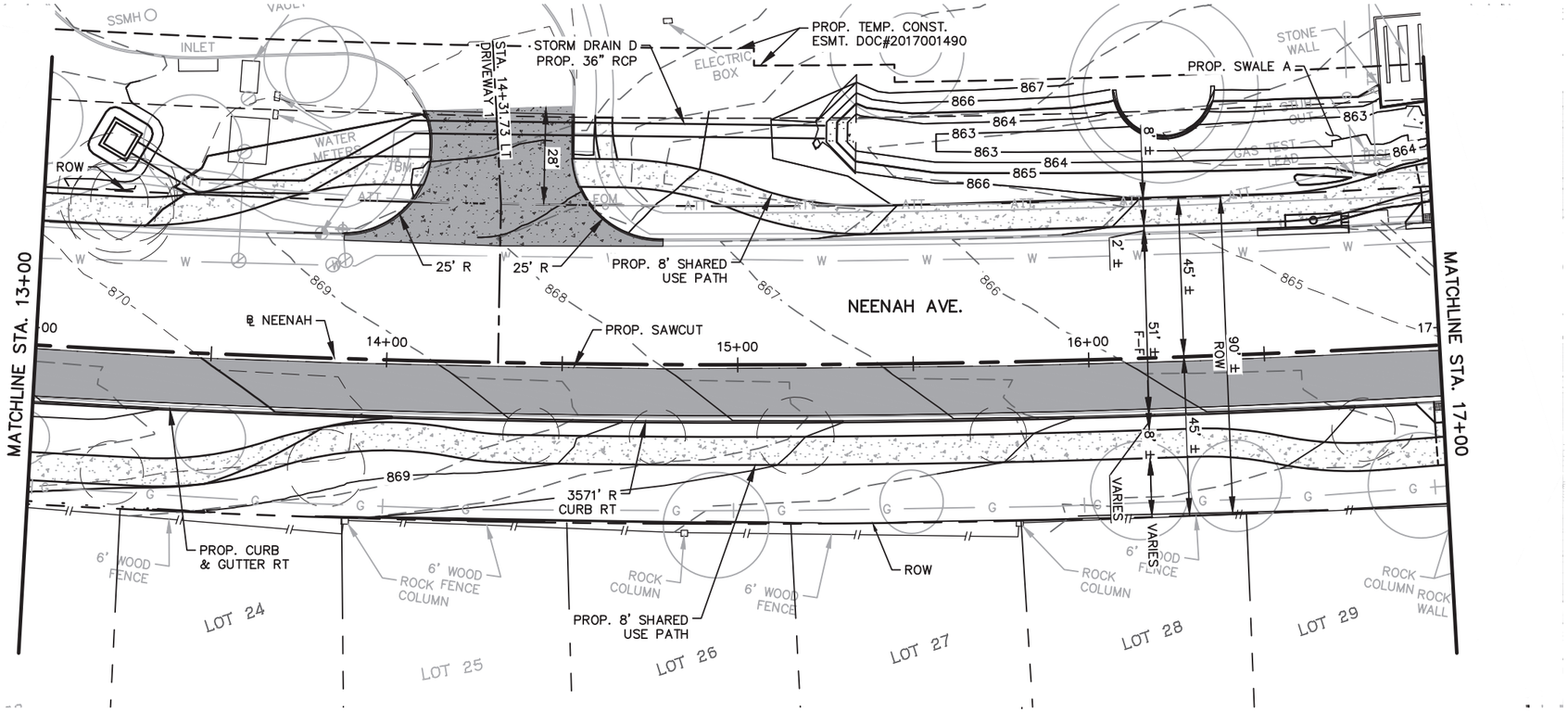

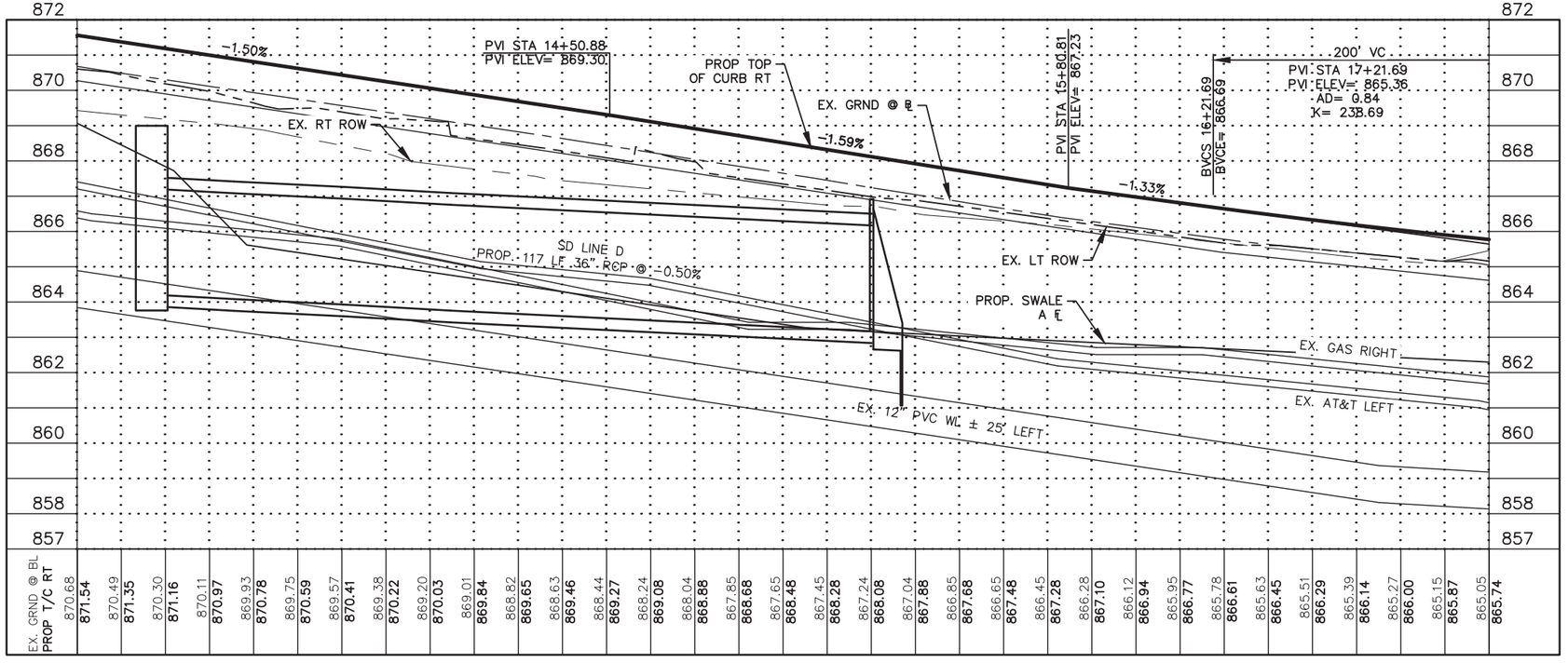

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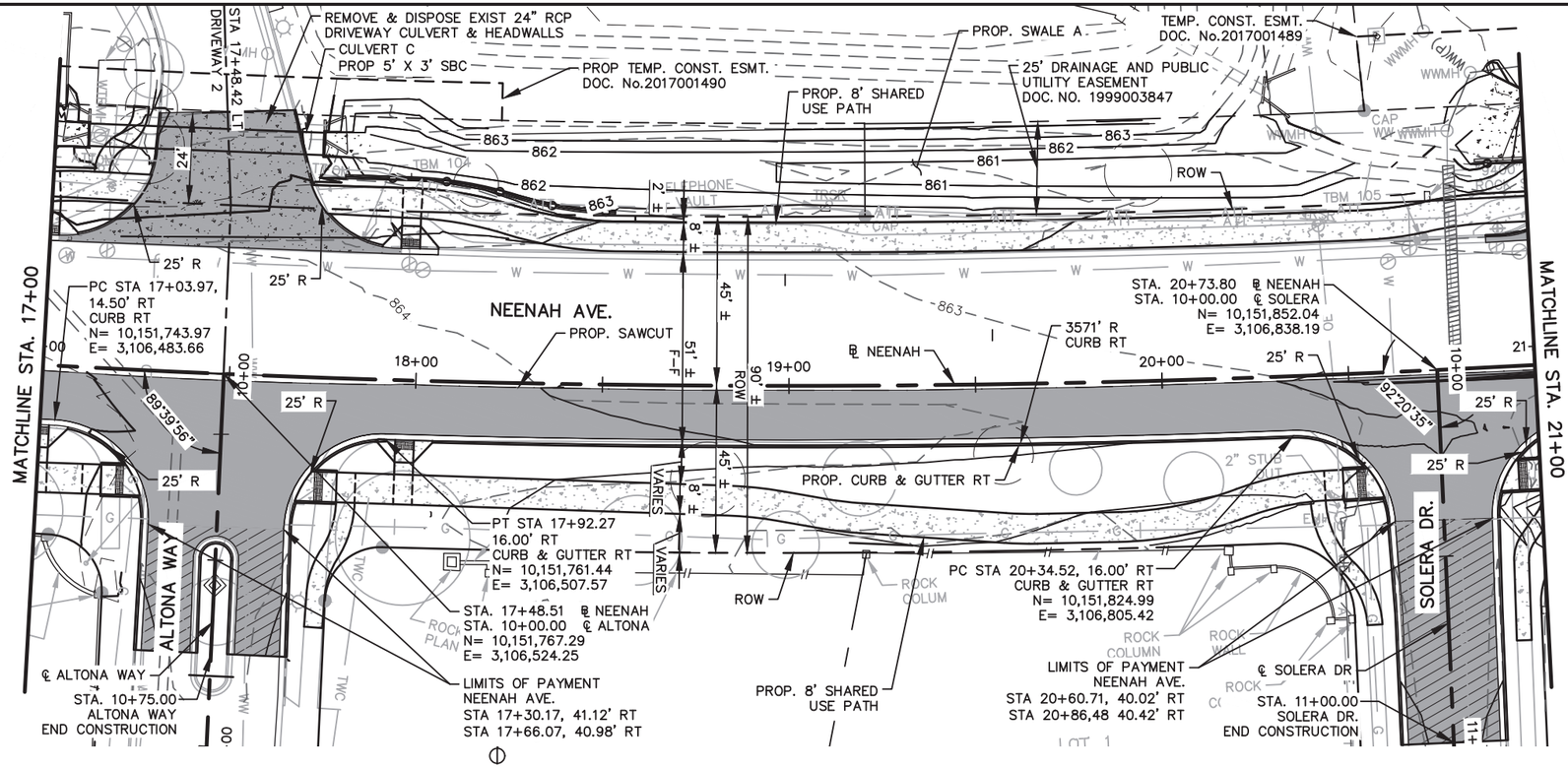

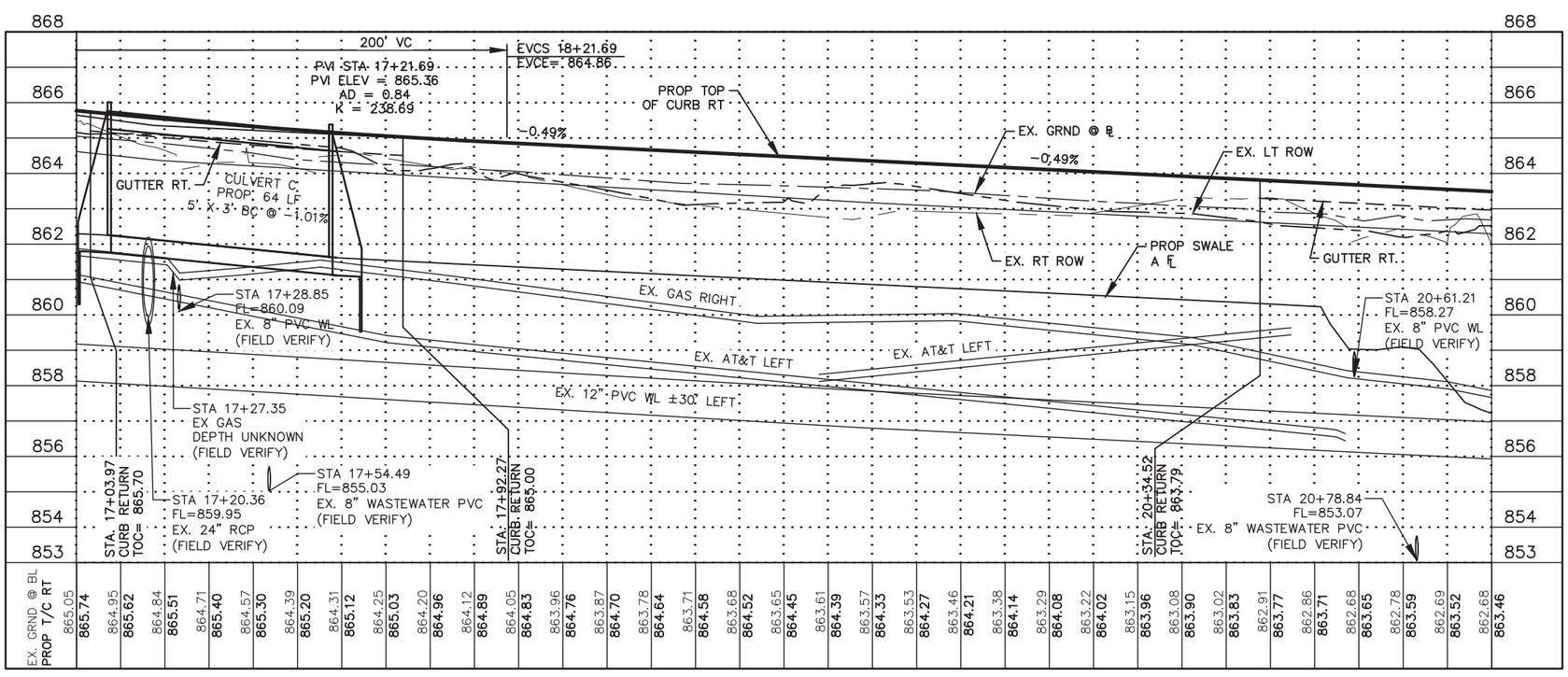

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6	TEXAS	104023-10006	_	14	WILLIAMSON				69

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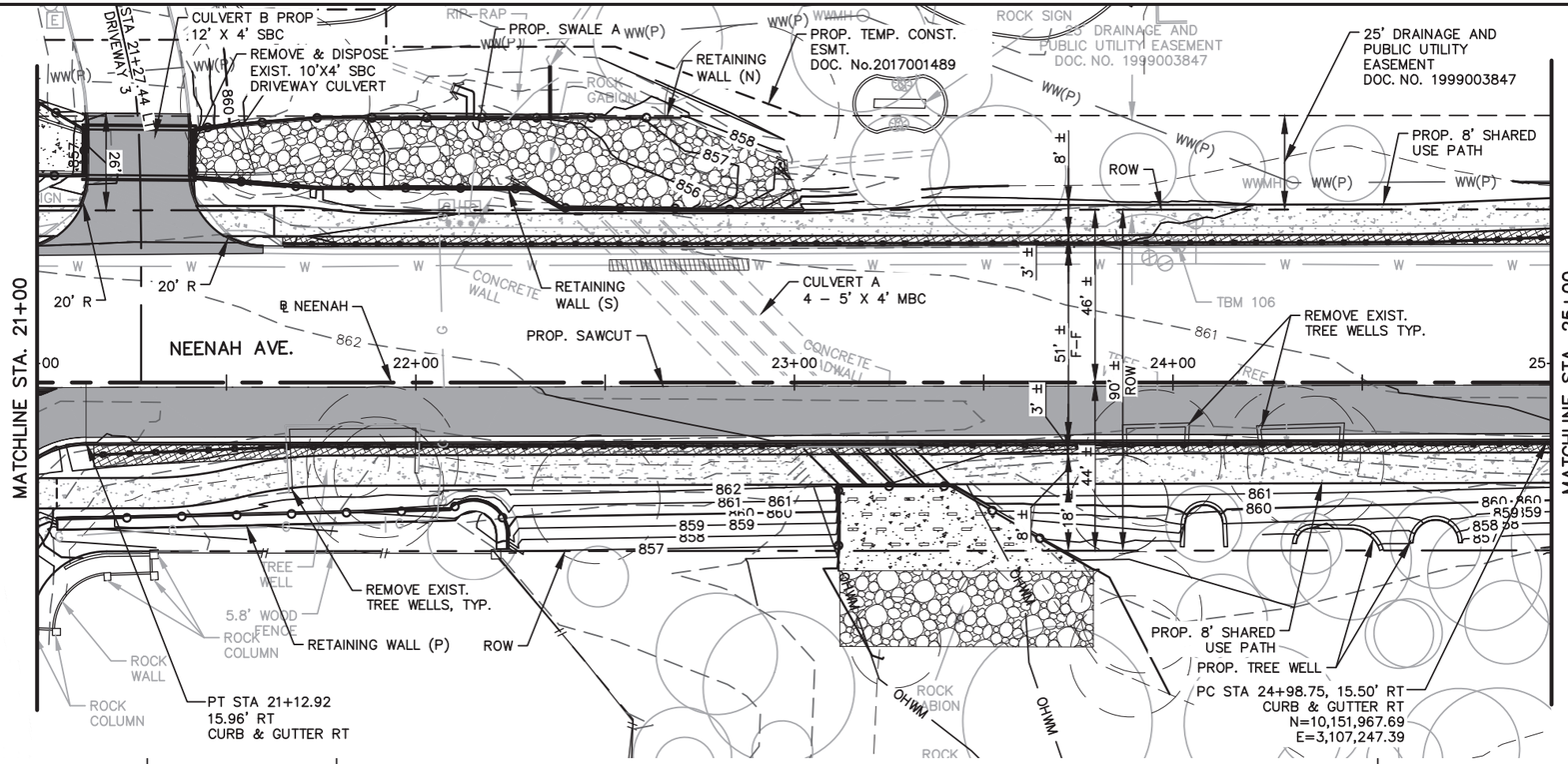

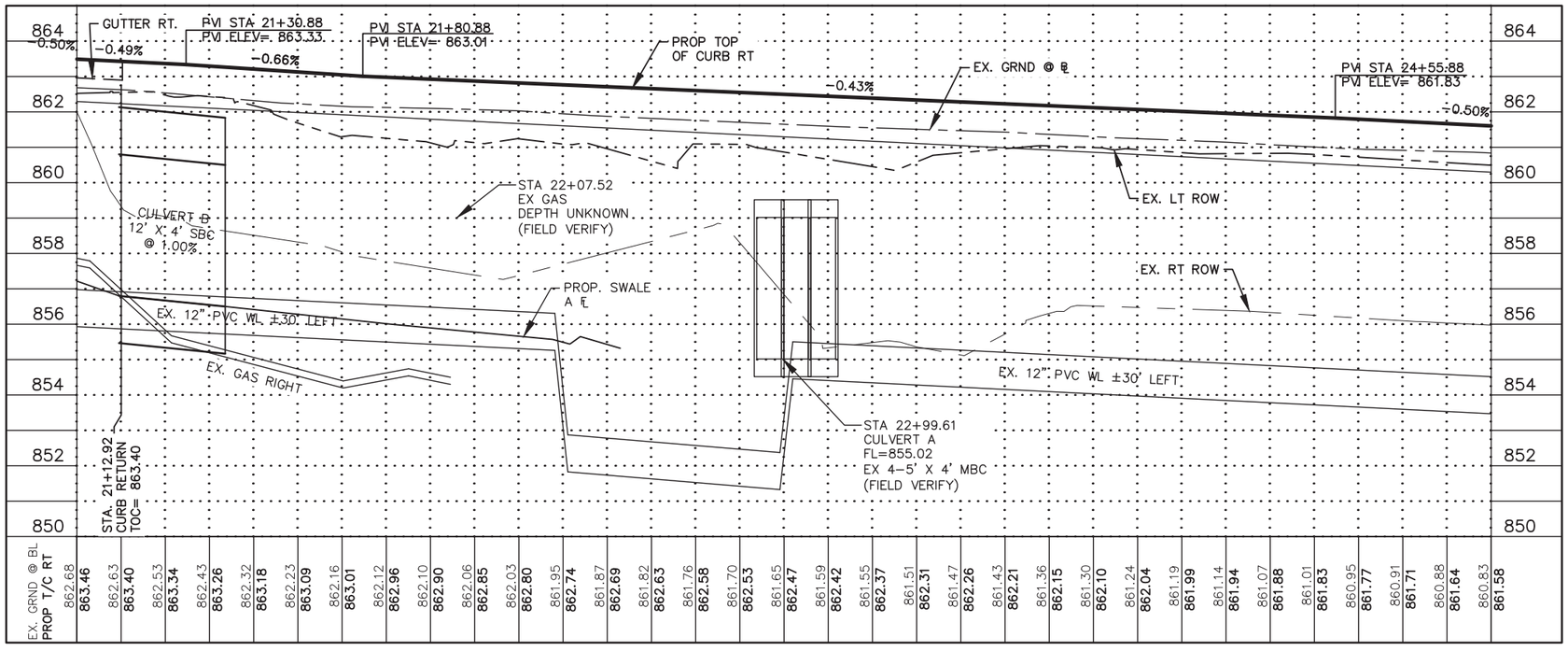

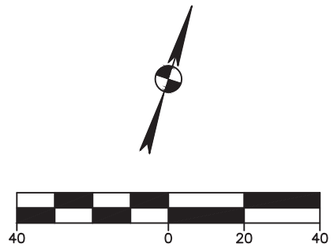

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SHEET 70 OF 273

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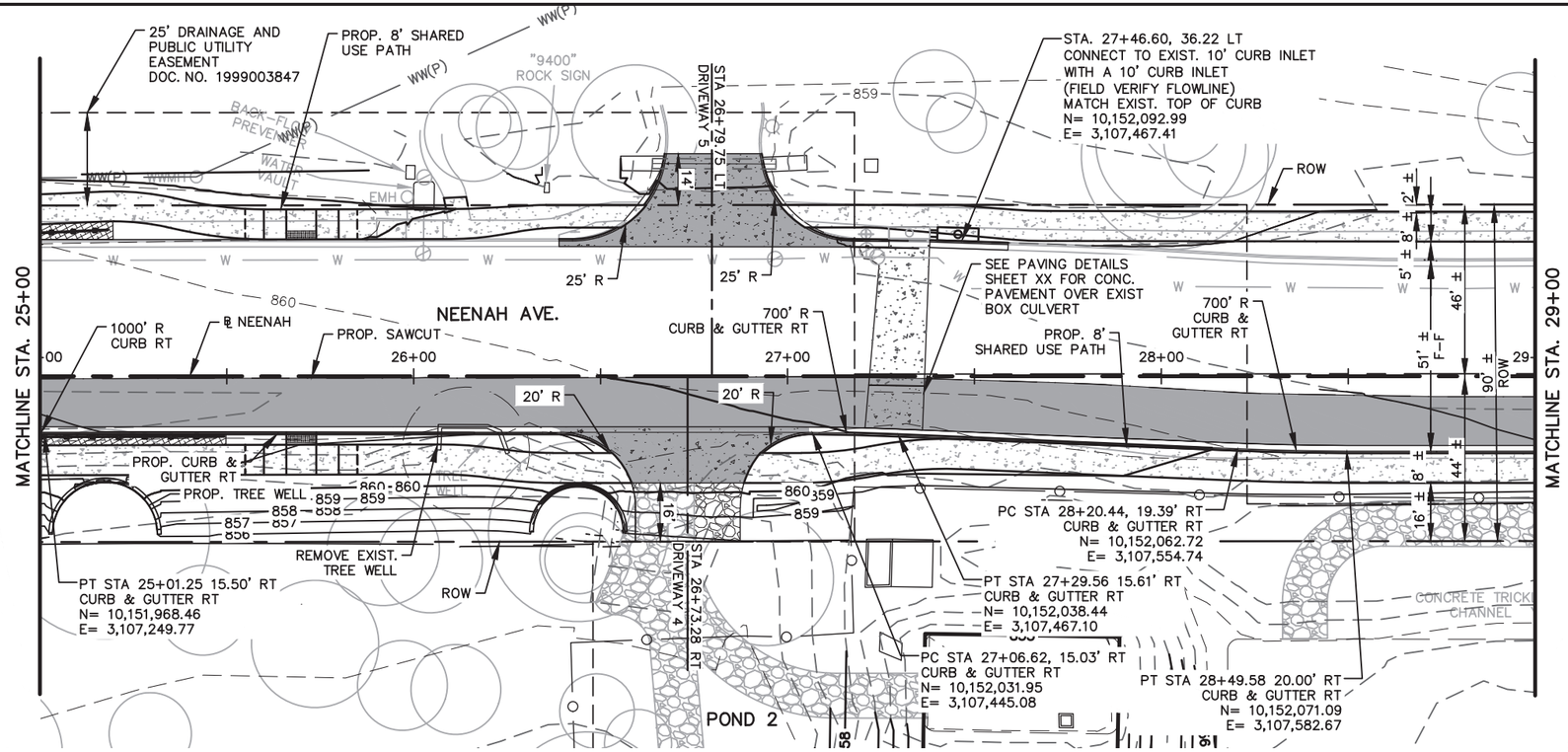

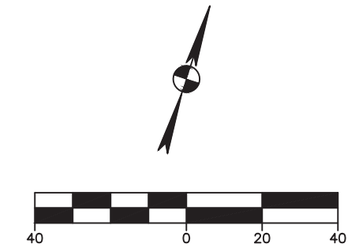

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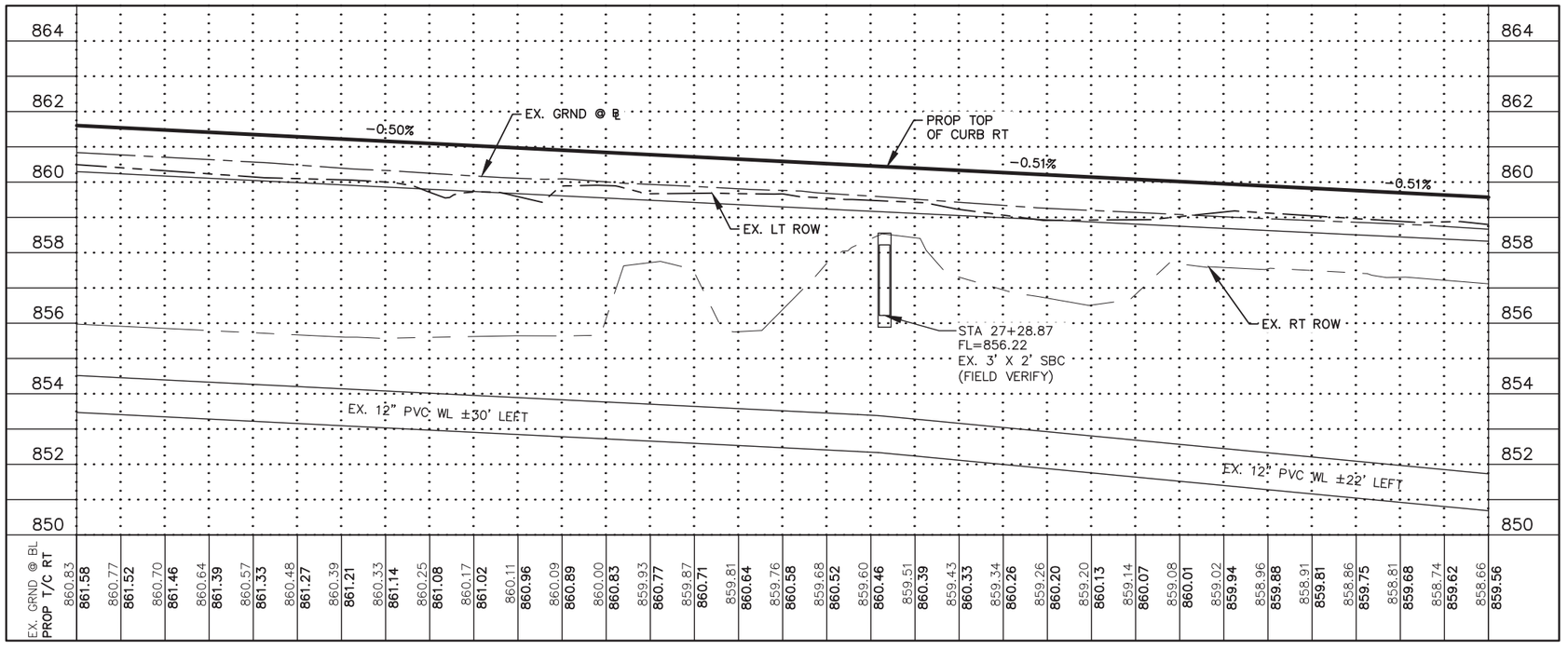

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SHEET 71 OF 273

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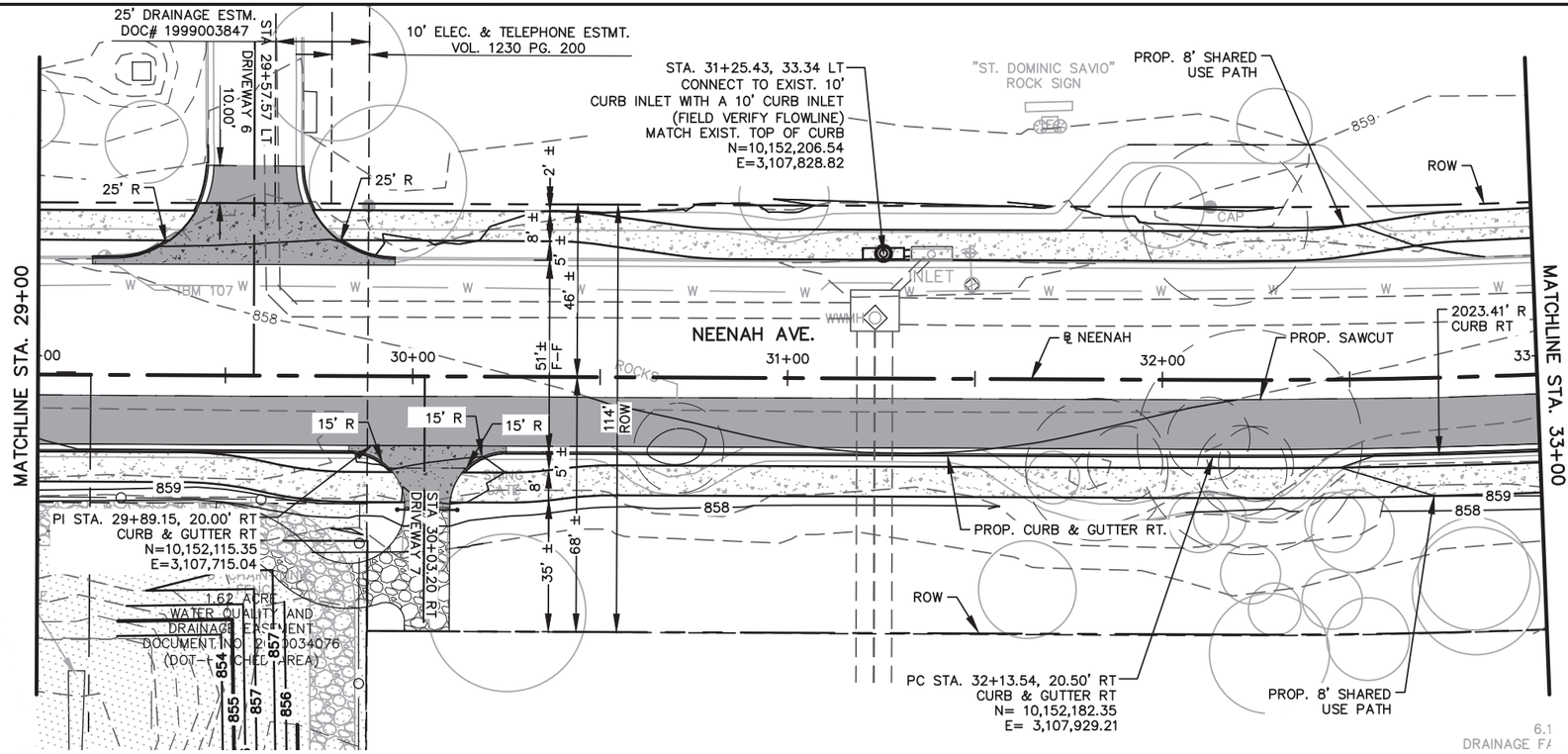
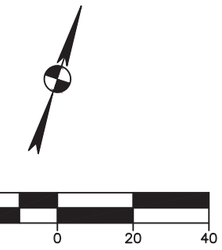
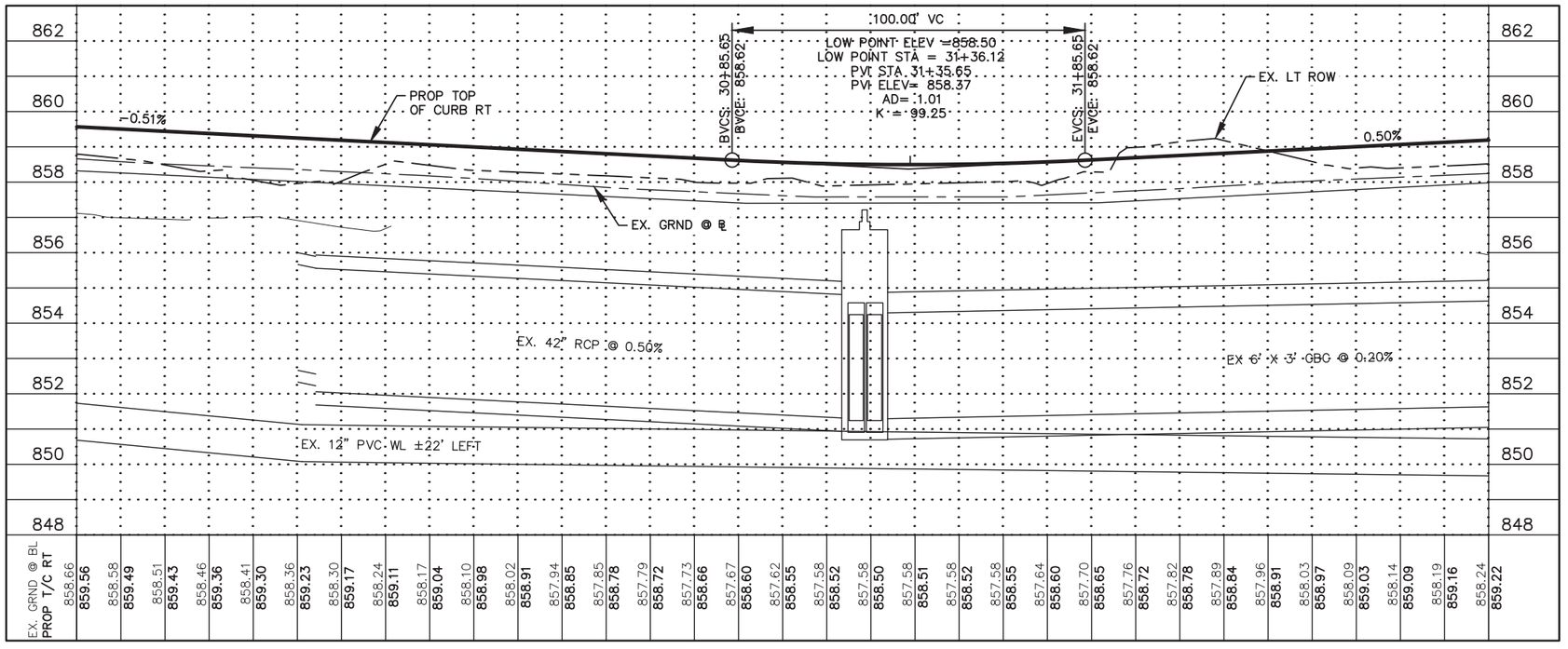
SP-2016-0186D





NOTES:

1. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
2. REFER TO INTERSECTION LAYOUT SHEETS FOR MORE INFORMATION.
3. REFER TO HORIZONTAL ALIGNMENT DATA SHEET FOR MORE INFORMATION.
4. REFER TO SIGNING AND PAVEMENT MARKING LAYOUT SHEETS FOR MORE INFORMATION AND GUARD FENCE PLACEMENT.
5. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
6. MATCH EXIST X-SLOPES AT TIE-IN LOCATIONS.
7. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
8. SAWCUT, REMOVE AND DISPOSE EXISTING PAVEMENT EDGE AND SOUTH CURB & GUTTER.
9. REMOVE AND DISPOSE EXISTING SIDEWALKS AND CURB RAMPS WITHIN SHARED USE PATH LIMITS.
10. THE WIDTH OF PROPOSED PAVEMENT VARIES ALONG THE LENGTH OF THE PROJECT.
11. ALL EXISTING STORM DRAIN IS TO REMAIN, UNLESS OTHERWISE NOTED.
12. REFER TO PROJECT CONTROL LAYOUT SHEET 2 FOR HORIZONTAL ALIGNMENT OF SHARED USE PATHS.



8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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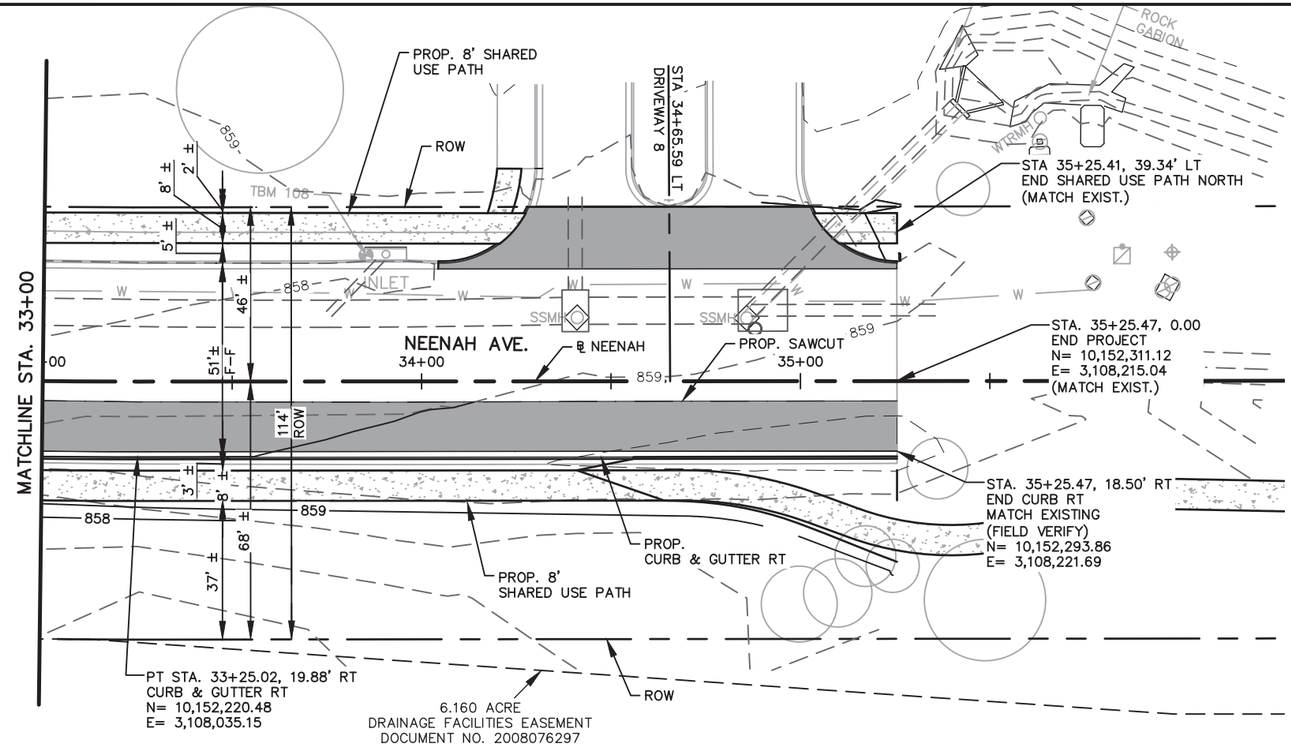
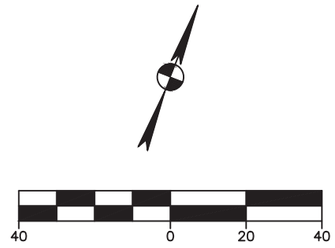
NEENAH AVE. PLAN AND PROFILE
STA. 29+00 TO STA. 33+00

SHEET 72 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				72

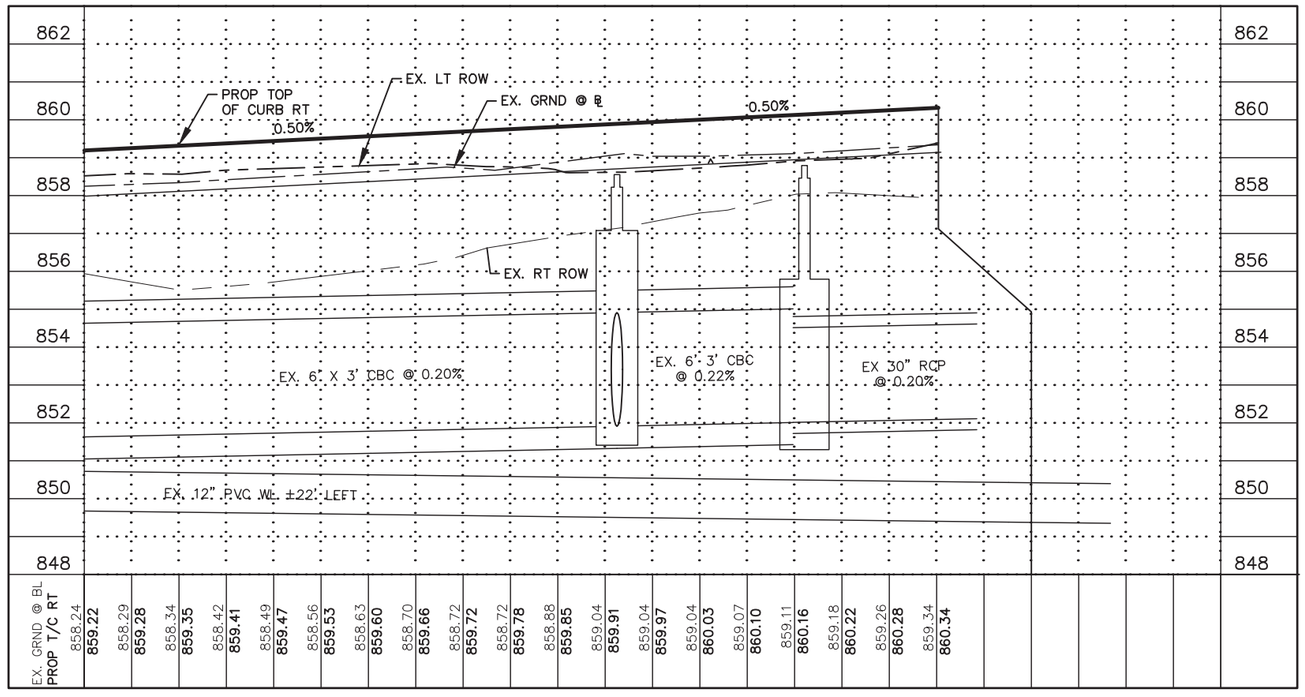
SP-2016-0186D





NOTES:

1. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
2. REFER TO INTERSECTION LAYOUT SHEETS FOR MORE INFORMATION.
3. REFER TO HORIZONTAL ALIGNMENT DATA SHEET FOR MORE INFORMATION.
4. REFER TO SIGNING AND PAVEMENT MARKING LAYOUT SHEETS FOR MORE INFORMATION AND GUARD FENCE PLACEMENT.
5. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
6. MATCH EXIST X-SLOPES AT TIE-IN LOCATIONS.
7. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
8. SAWCUT, REMOVE AND DISPOSE EXISTING PAVEMENT EDGE AND SOUTH CURB & GUTTER.
9. REMOVE AND DISPOSE EXISTING SIDEWALKS AND CURB RAMPS WITHIN SHARED USE PATH LIMITS.
10. THE WIDTH OF PROPOSED PAVEMENT VARIES ALONG THE LENGTH OF THE PROJECT.
11. ALL EXISTING STORM DRAIN IS TO REMAIN, UNLESS OTHERWISE NOTED.
12. REFER TO PROJECT CONTROL LAYOUT SHEET 2 FOR HORIZONTAL ALIGNMENT OF SHARED USE PATHS.
13. THE EXTENSION OF NEENAH AVE IS UNDER CONSTRUCTION. CONTRACTOR TO VERIFY ELEVATIONS AT PROJECT END AND MATCH EXISTING PAVEMENT.



8.4.17

STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER

Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
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NEENAH AVE. PLAN AND PROFILE STA. 33+00 TO END

SHEET 73 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				73

SP-2016-0186D

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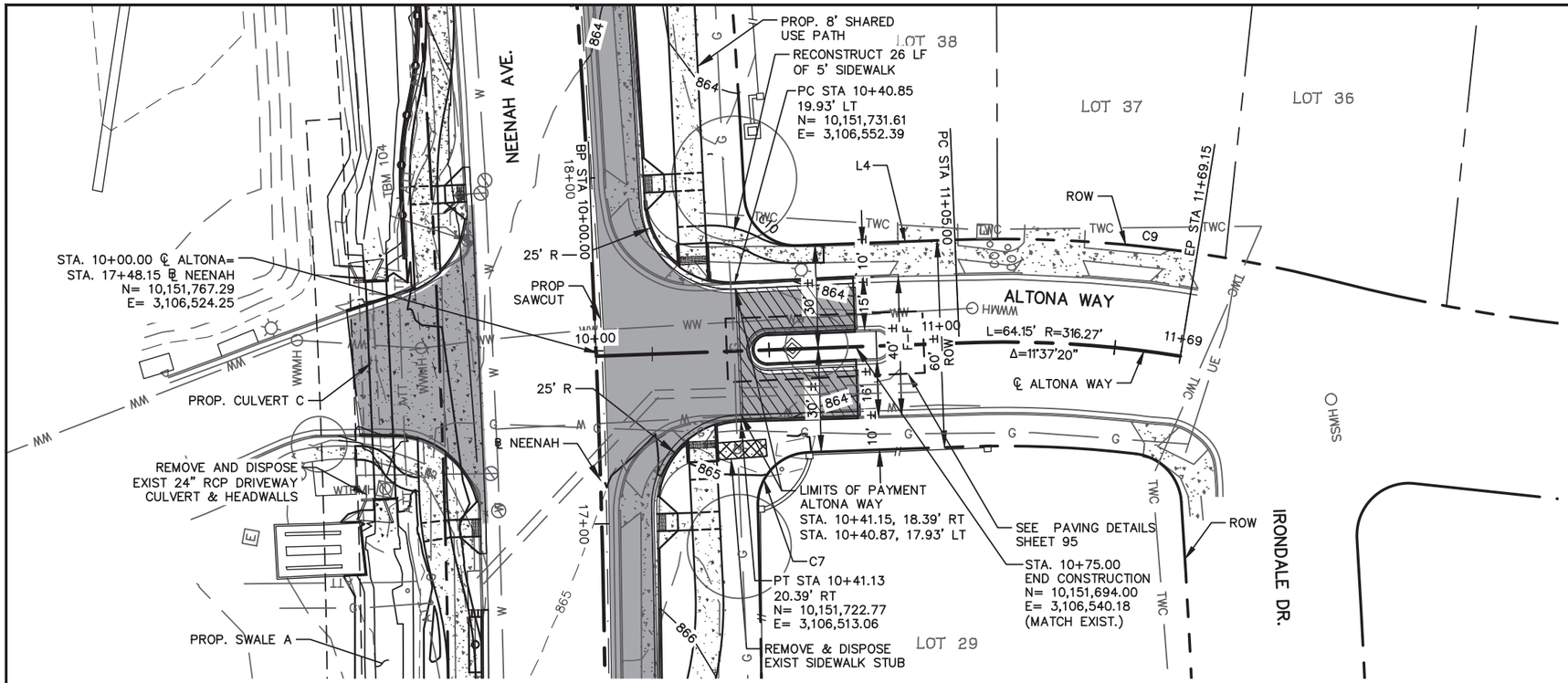

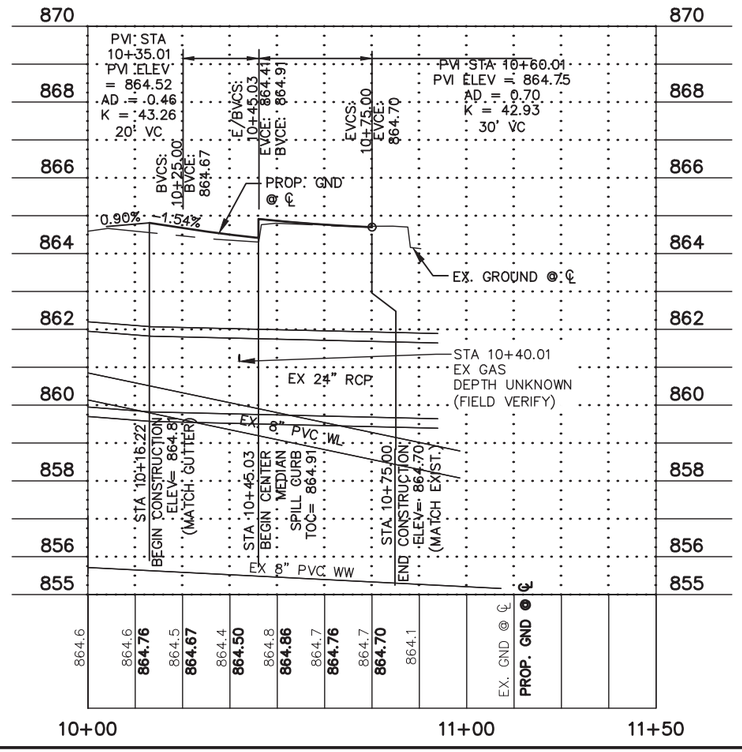

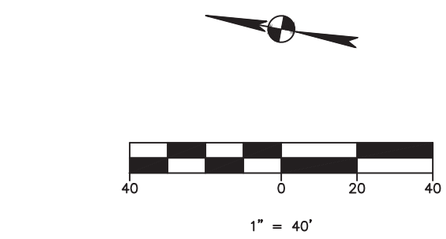

NOTES:

1. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED ALTONA CENTERLINE, UNLESS OTHERWISE NOTED IN THE PLANS.
2. REFER TO INTERSECTION LAYOUT SHEETS FOR MORE INFORMATION.
3. REFER TO HORIZONTAL ALIGNMENT DATA SHEET FOR MORE INFORMATION.
4. REFER TO SIGNING AND PAVEMENT MARKING LAYOUT SHEETS FOR MORE INFORMATION AND GUARD FENCE PLACEMENT.
5. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
6. MATCH EXIST X–SLOPES AT TIE–IN LOCATIONS.
7. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
8. SAWCUT, REMOVE AND DISPOSE EXISTING PAVEMENT EDGE AND SOUTH CURB & GUTTER.
9. REMOVE AND DISPOSE EXISTING SIDEWALKS AND CURB RAMPS WITHIN SHARED USE PATH LIMITS.
10. ALL EXISTING STORM DRAIN IS TO REMAIN, UNLESS OTHERWISE NOTED.
11. CONTRACTOR SHALL PROTECT EXISTING SIDEWALKS NOT SHOWN FOR RECONSTRUCTION.
12. CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS WITHIN CENTER MEDIAN.
13. REFER TO INTERSECTION PLANS FOR CURB RAMP AND SIDEWALK INFORMATION.
14. MILL BUTT JOINT AT 1"(V):40'(H) TAPER TO ACHIEVE MINIMUM LEVEL–UP THICKNESS OF 1.5" AT STA. 10+75.00.

LEGEND:

MILL & LEVEL UP

8.4.17

STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER

Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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ALTONA WAY PLAN AND PROFILE
STA. 10+00 TO STA. 12+00

SHEET 74 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				74

SP-2016-0186D

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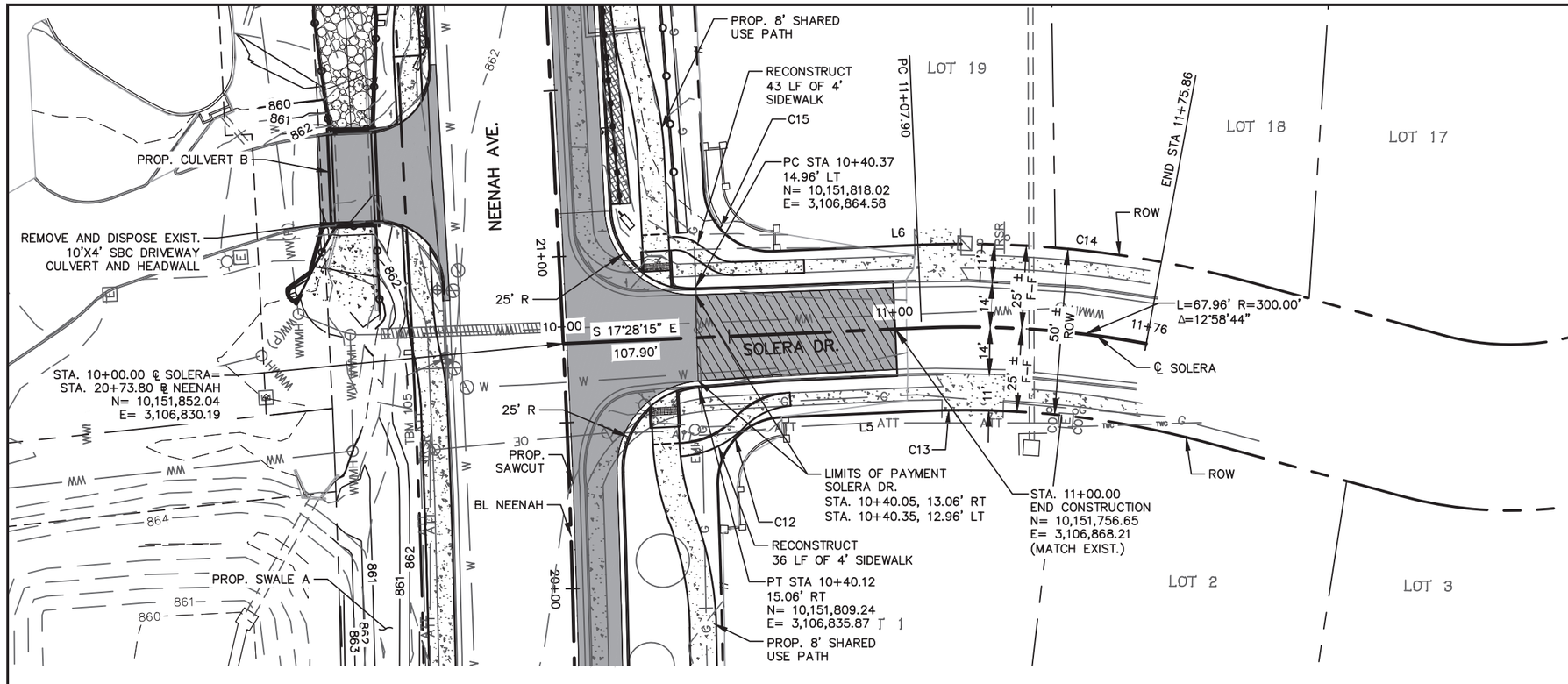

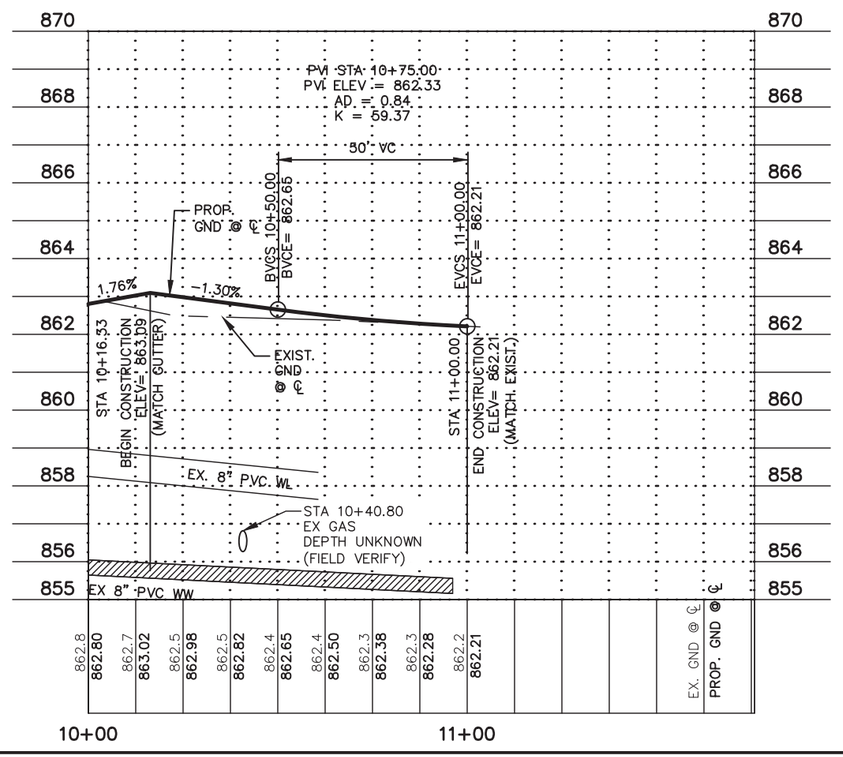

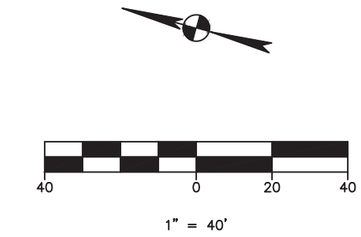

NOTES:

1. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED SOLERA CENTERLINE, UNLESS OTHERWISE NOTED IN THE PLANS.
2. REFER TO INTERSECTION LAYOUT SHEETS FOR MORE INFORMATION.
3. REFER TO HORIZONTAL ALIGNMENT DATA SHEET FOR MORE INFORMATION.
4. REFER TO SIGNING AND PAVEMENT MARKING LAYOUT SHEETS FOR MORE INFORMATION AND GUARD FENCE PLACEMENT.
5. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
6. MATCH EXIST X-SLOPES AT TIE-IN LOCATIONS.
7. REFER TO UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
8. SAWCUT, REMOVE AND DISPOSE EXISTING PAVEMENT EDGE AND SOUTH CURB & GUTTER.
9. REMOVE AND DISPOSE EXISTING SIDEWALKS AND CURB RAMPS WITHIN SHARED USE PATH LIMITS.
10. ALL EXISTING STORM DRAIN IS TO REMAIN UNLESS OTHERWISE NOTED.
11. CONTRACTOR SHALL PROTECT EXISTING SIDEWALKS NOT SHOWN FOR RECONSTRUCTION.
12. REFER TO INTERSECTION PLANS FOR CURB RAMP AND SIDEWALK INFORMATION.
13. MILL BUTT JOINT AT 1"(V):40'(H) TAPER TO ACHIEVE MINIMUM LEVEL-UP THICKNESS OF 1.5" AT STA. 11+00.00.

LEGEND:

MILL & LEVEL UP

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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SOLERA DR. PLAN AND PROFILE
STA. 10+00 TO STA. 12+00

SHEET 75 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				75

SP-2016-0186D

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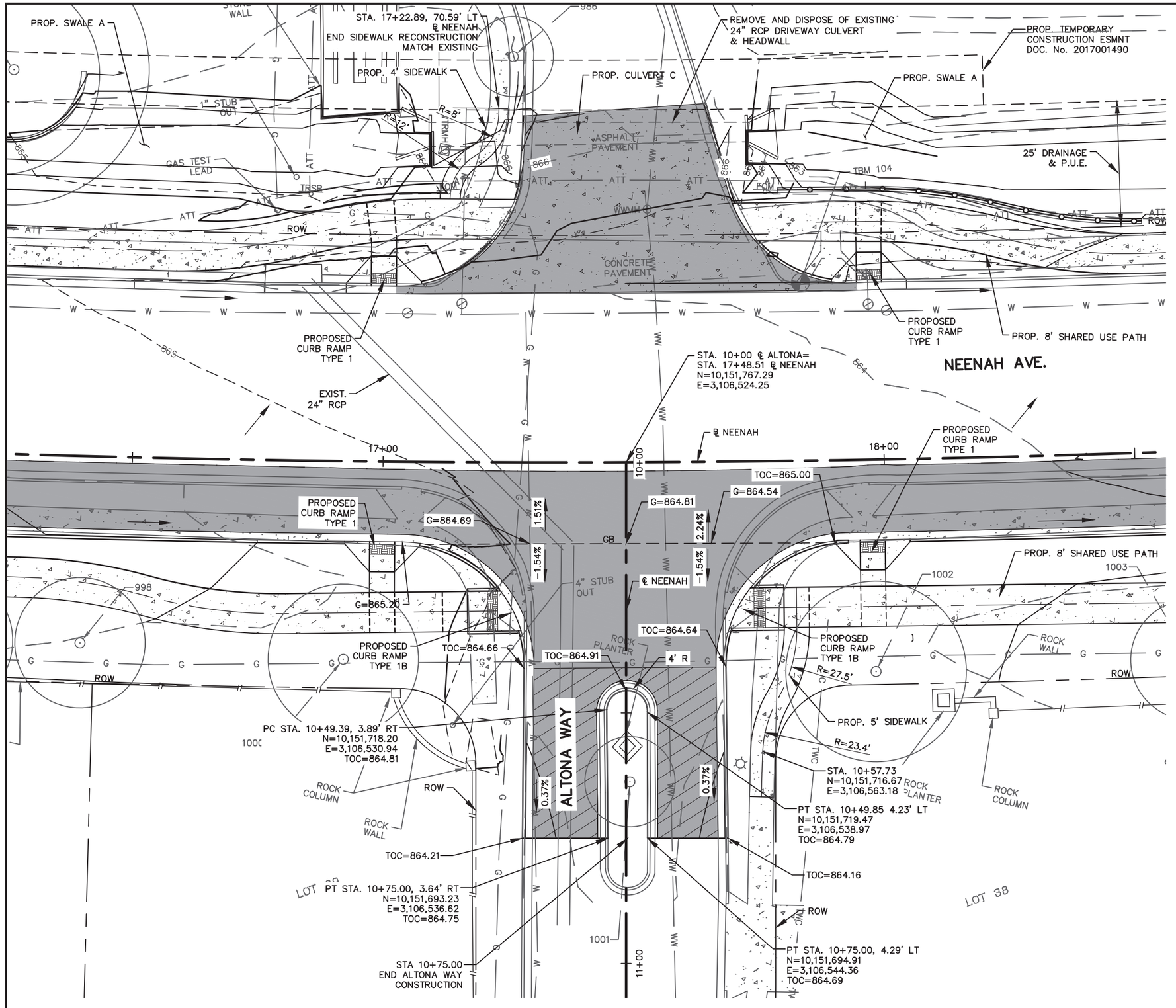

20 0 10 20

1" = 20'

NOTES:
1. REFER TO ROADWAY PLAN AND PROFILE SHEETS FOR MORE INFORMATION.
2. REFER TO SIGNAGE AND PAVEMENT MARKING LAYOUT SHEETS FOR MORE INFORMATION AND GUARD FENCE.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED ALTONA CENTERLINE UNLESS OTHERWISE NOTED.
4. MILL BUTT JOINT USING 1"(V):40'(H) TAPER TO ACHIEVE MINIMUM LEVEL-UP THICKNESS OF 1.5" AT STA. 10+75.00.
5. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

LEGEND

→	FLOW ARROW
ROW	ROW
859	PROP. CONTOURS
860	EXIST. CONTOURS
W W	EXIST. WOOD FENCE
GB	GRADE BREAK
TOC =	PROP. TOP OF CURB ELEV.
G =	PROP. GUTTER ELEV.
TOP =	PROP. TOP OF PAVEMENT ELEV.
	MILL & LEVEL UP

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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INTERSECTION PLAN
ALTONA WAY

SHEET 76 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				76

SP-2016-0186D

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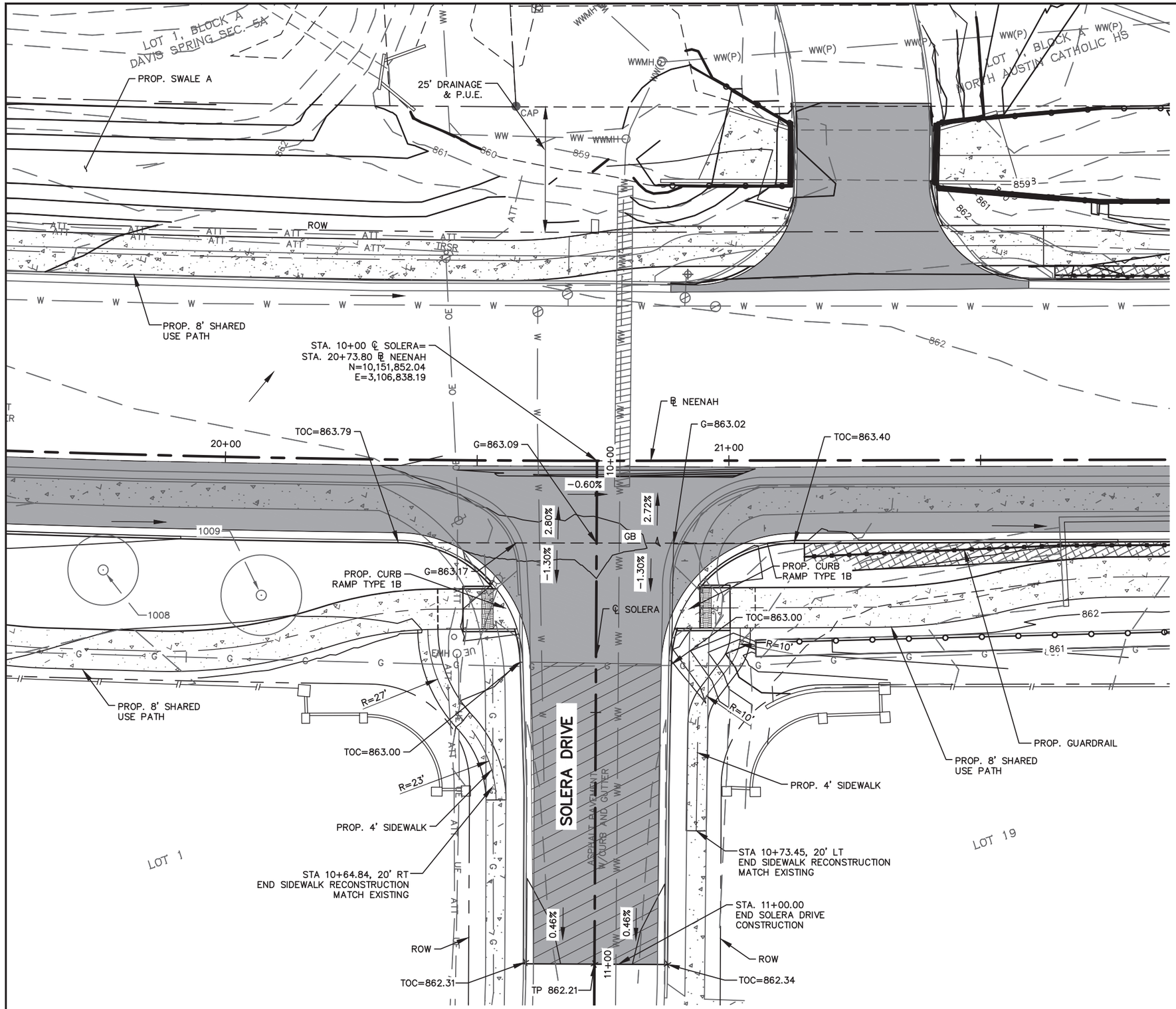

20 0 10 20

1" = 20'

NOTES:

1. REFER TO ROADWAY PLAN AND PROFILE SHEETS FOR MORE INFORMATION.
2. REFER TO SIGNAGE AND PAVEMENT MARKING LAYOUT SHEETS FOR MORE INFORMATION AND GUARD FENCE.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED SOLERA CENTERLINE UNLESS OTHERWISE NOTED.
4. MILL BUTT JOINT USING 1"(V): 40'(H) TAPER TO ACHIEVE MINIMUM LEVEL-UP THICKNESS OF 1.5" AT STA. 11+00.00.
5. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

LEGEND

→	FLOW ARROW
———	ROW
859	PROP. CONTOURS
860	EXIST. CONTOURS
	EXIST. WOOD FENCE
GB	GRADE BREAK
TOC =	PROP. TOP OF CURB ELEV.
G =	PROP. GUTTER ELEV.
TOP =	PROP. TOP OF PAVEMENT ELEV.
	MILL & LEVEL UP

8-4-17

STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER

Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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INTERSECTION PLAN
SOLERA DR.

SHEET 77 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				77

SP-2016-0186D

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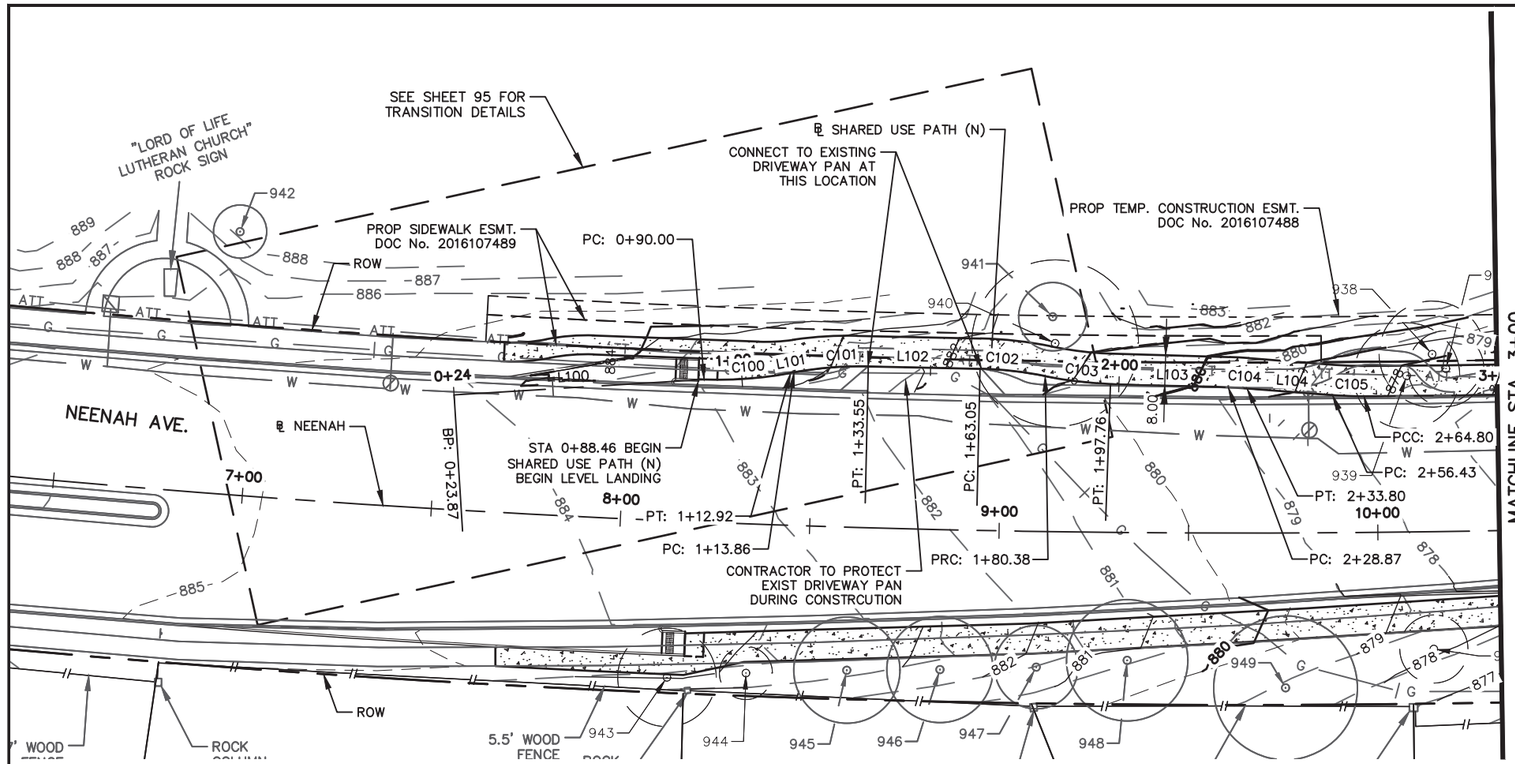
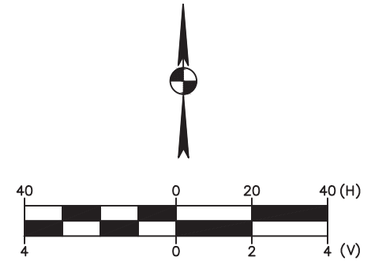
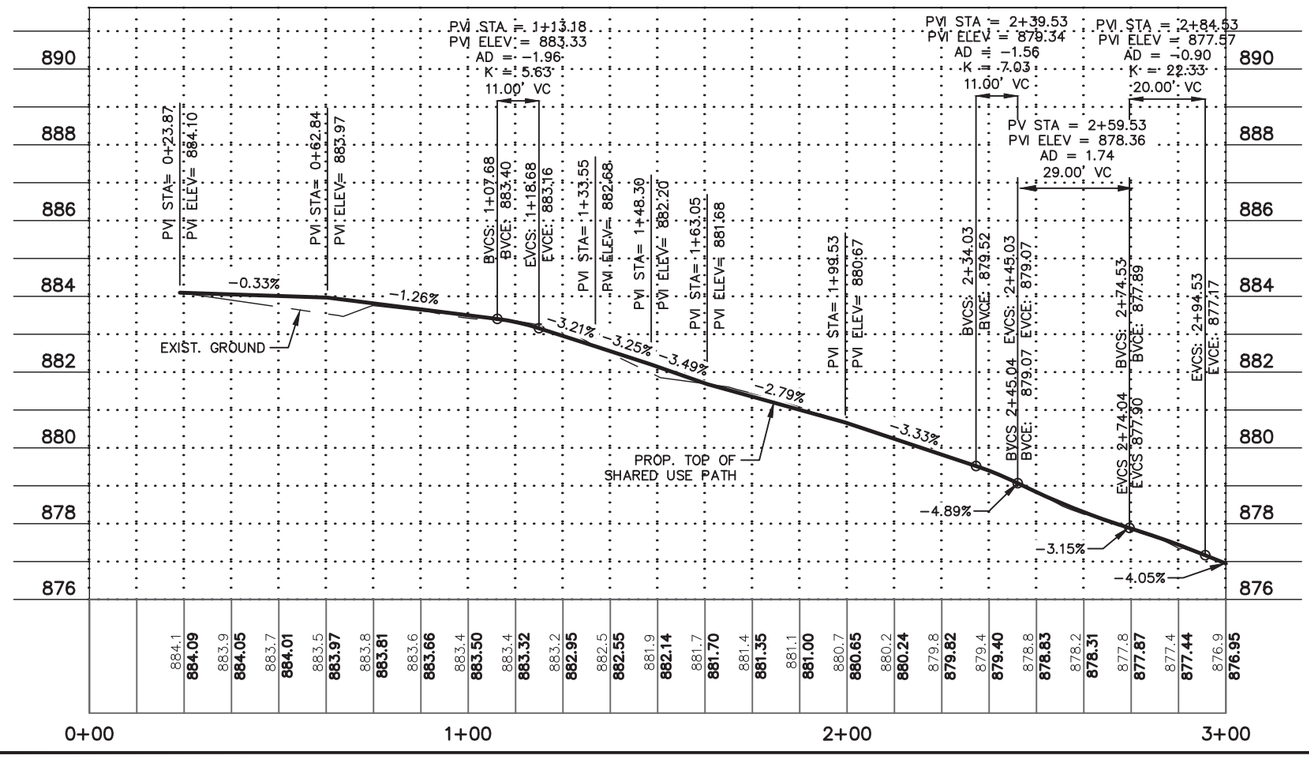




NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 2 FOR LINE AND CURVE TABLE DATA FOR THE NORTH SHARED USE PATH.
2. SEE DETAIL SHEET 95 FOR SHARED USE PATH TRANSITION DETAILS.
3. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.
4. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
5. CROSS SLOPE SHALL BE 1.5% FOR THE SHARED USE PATH AND SIDEWALKS.
6. REFER TO PROPOSED TYPICAL SECTIONS SHARED USE PATH FOR ADDITIONAL INFORMATION INCLUDING LIMITS OF CONSTRUCTION WITHIN ½ CRZ.



8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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SHARED USE PATH (N) PLAN AND PROFILE STA. 1+00 TO STA. 3+00

SHEET 78 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				78

SP-2016-0186D

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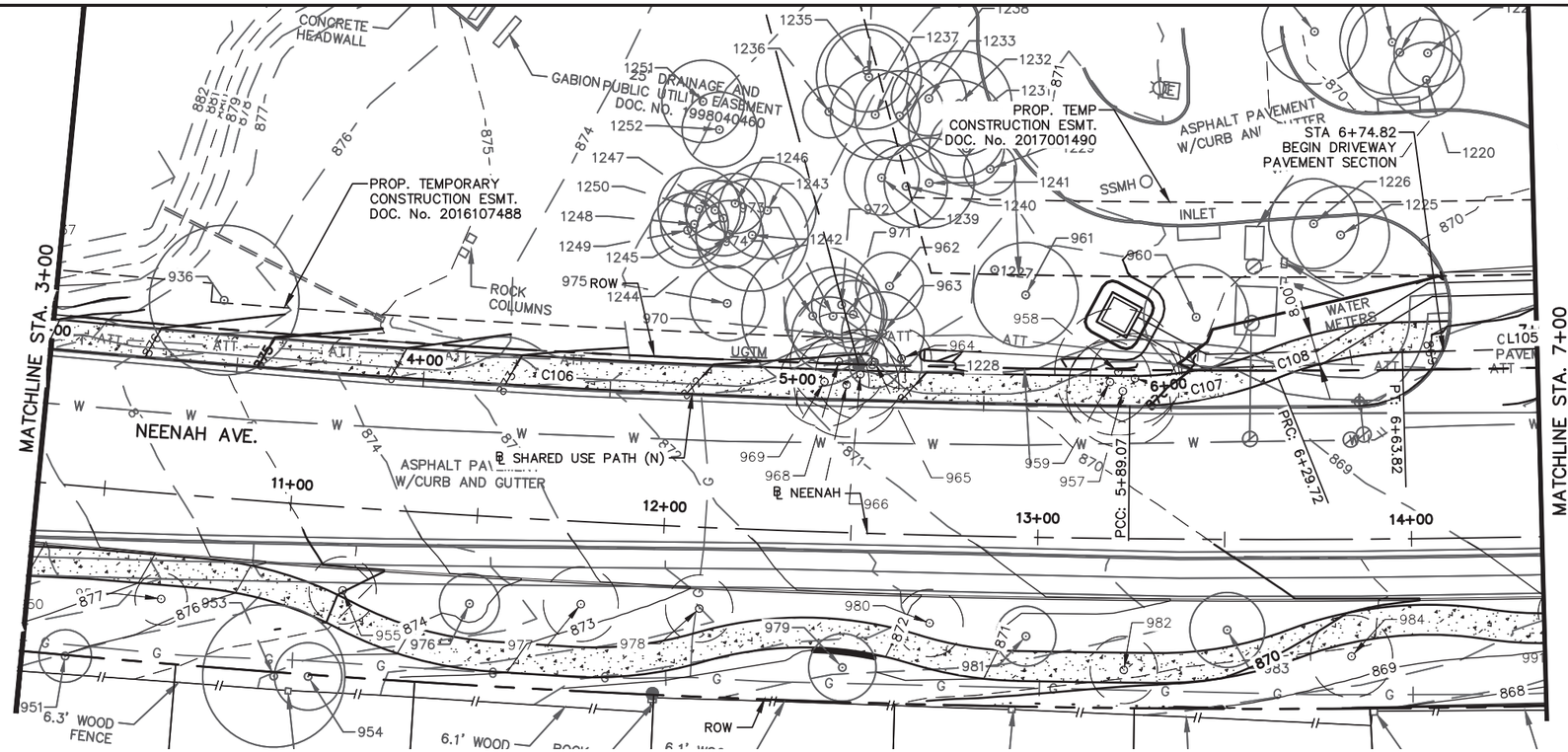

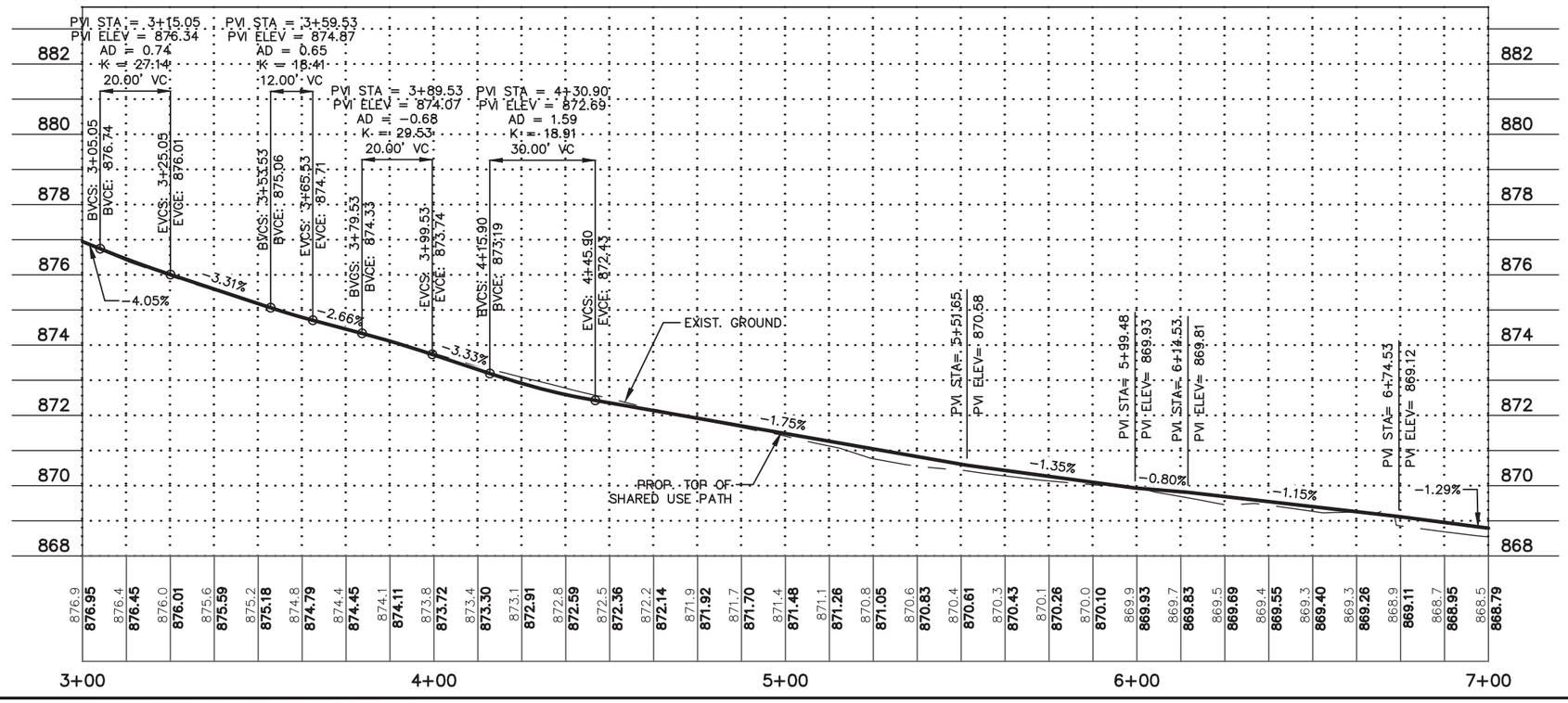

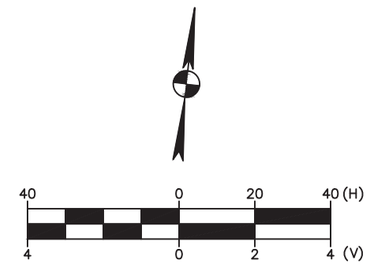

NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 2 FOR LINE AND CURVE TABLE DATA FOR THE NORTH SHARED USE PATH.
2. SEE DETAIL SHEET 95 FOR SHARED USE PATH TRANSITION DETAILS.
3. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.
4. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
5. CROSS SLOPE SHALL BE 1.5% FOR THE SHARED USE PATH AND SIDEWALKS.
6. REFER TO PROPOSED TYPICAL SECTIONS SHARED USE PATH FOR ADDITIONAL INFORMATION INCLUDING LIMITS OF CONSTRUCTION WITHIN ½ CRZ.

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

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WILLIAMSON COUNTY
1848

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SHARED USE PATH (N) PLAN AND PROFILE STA. 3+00 TO STA. 7+00

SHEET 79 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				79

SP-2016-0186D

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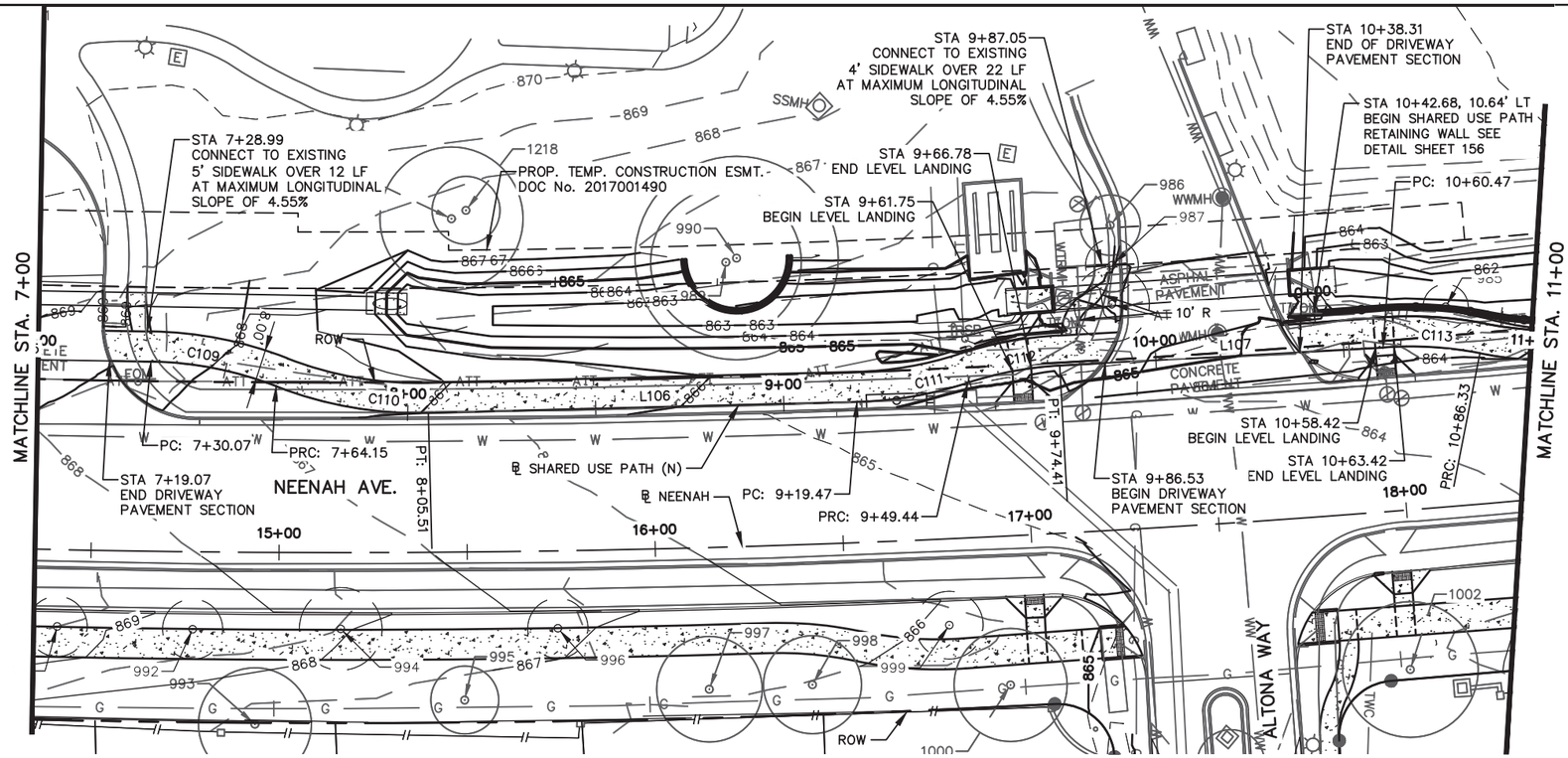
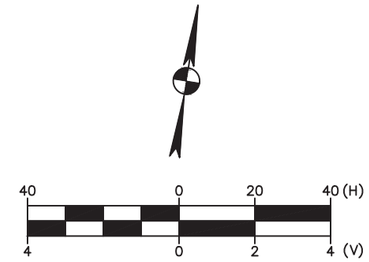
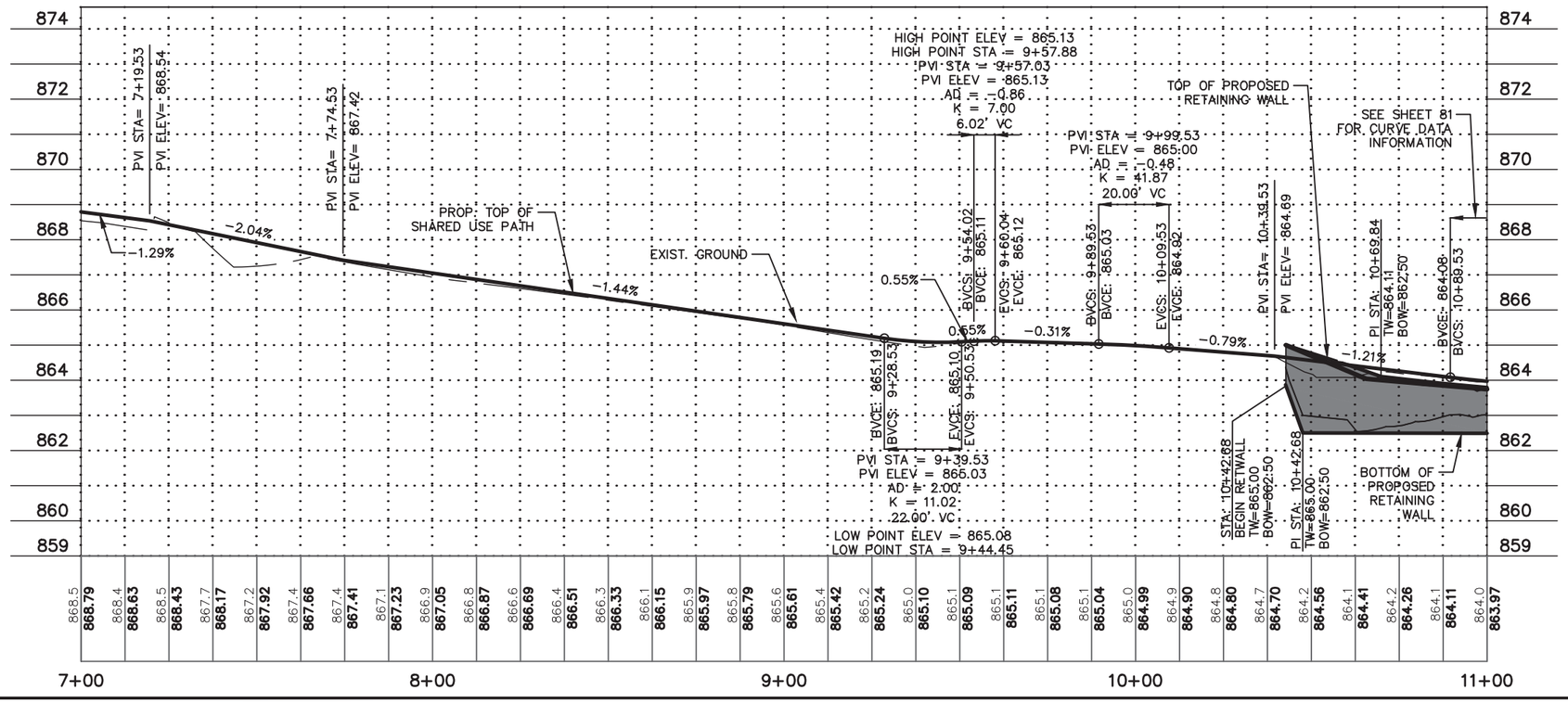




NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 2 FOR LINE AND CURVE TABLE DATA FOR THE NORTH SHARED USE PATH.
2. SEE DETAIL SHEET 95 FOR SHARED USE PATH TRANSITION DETAILS.
3. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.
4. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
5. CROSS SLOPE SHALL BE 1.5% FOR THE SHARED USE PATH AND SIDEWALKS.
6. REFER TO PROPOSED TYPICAL SECTIONS SHARED USE PATH FOR ADDITIONAL INFORMATION INCLUDING LIMITS OF CONSTRUCTION WITHIN ½ CRZ.



8.4.17
STATE OF TEXAS
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Stephanie D Blew

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SHARED USE PATH (N) PLAN AND PROFILE STA. 7+00 TO STA. 11+00

SHEET 80 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				80

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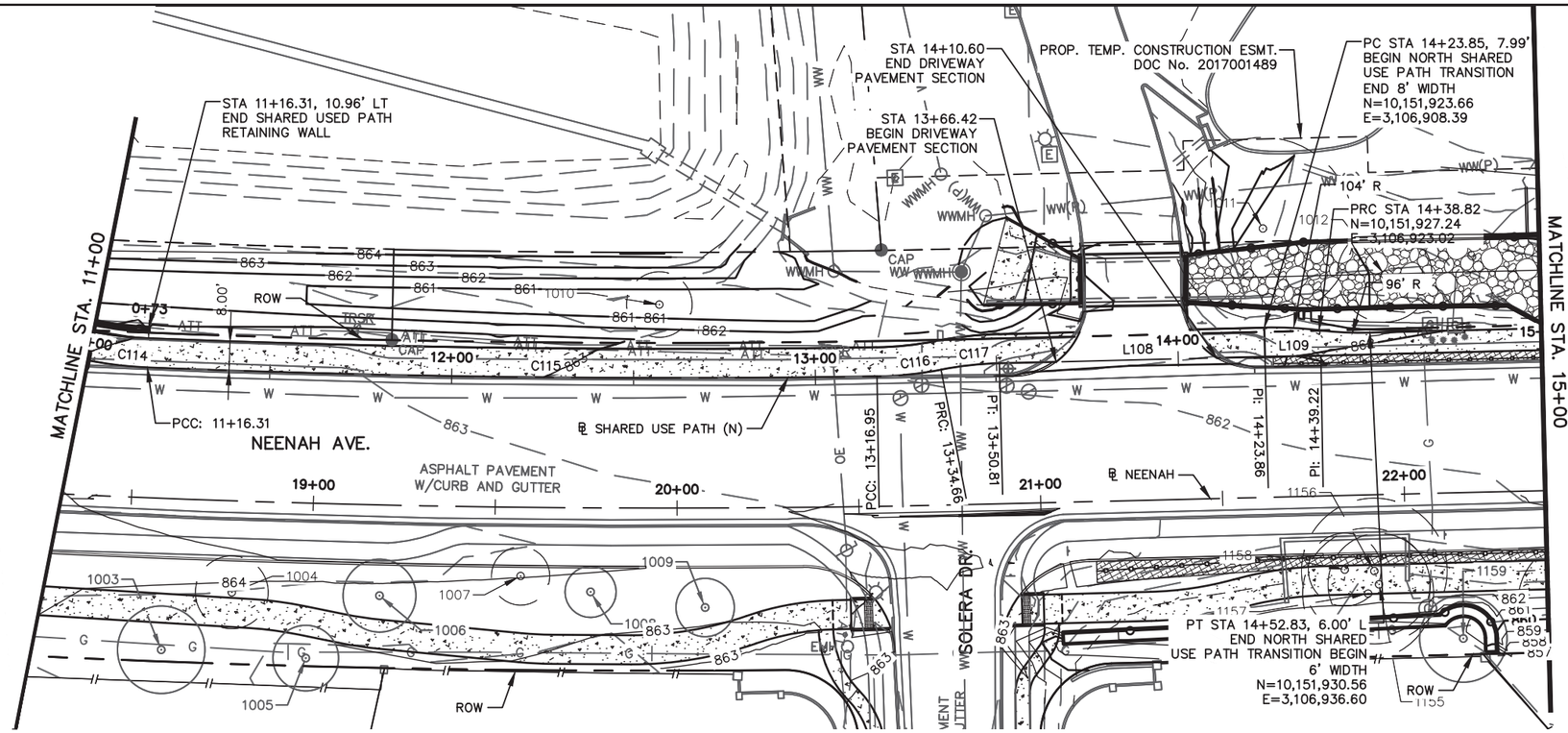

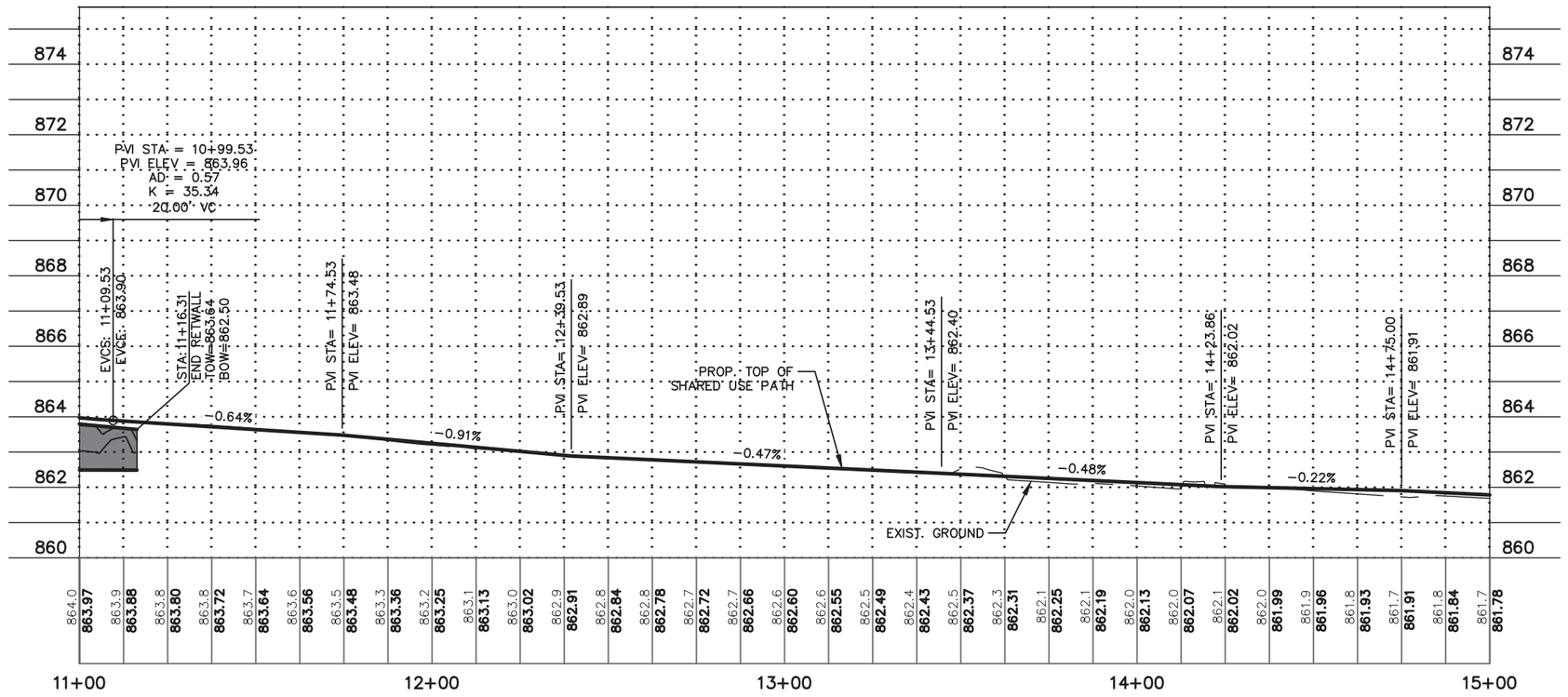

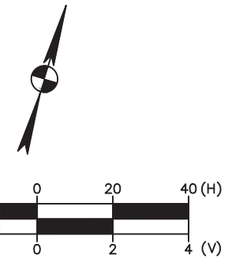

NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 2 FOR LINE AND CURVE TABLE DATA FOR THE NORTH SHARED USE PATH.
2. SEE DETAIL SHEET 95 FOR SHARED USE PATH TRANSITION DETAILS.
3. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.
4. SEE SIGNAGE AND PAVEMENT MARKING SHEETS FOR GUARDRAIL INFORMATION.
5. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
6. CROSS SLOPE SHALL BE 1.5% FOR THE SHARED USE PATH AND SIDEWALKS.
7. REFER TO PROPOSED TYPICAL SECTIONS SHARED USE PATH FOR ADDITIONAL INFORMATION INCLUDING LIMITS OF CONSTRUCTION WITHIN ½ CRZ.

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SHARED USE PATH (N) PLAN AND PROFILE STA. 11+00 TO STA. 15+00

SHEET 81 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				81

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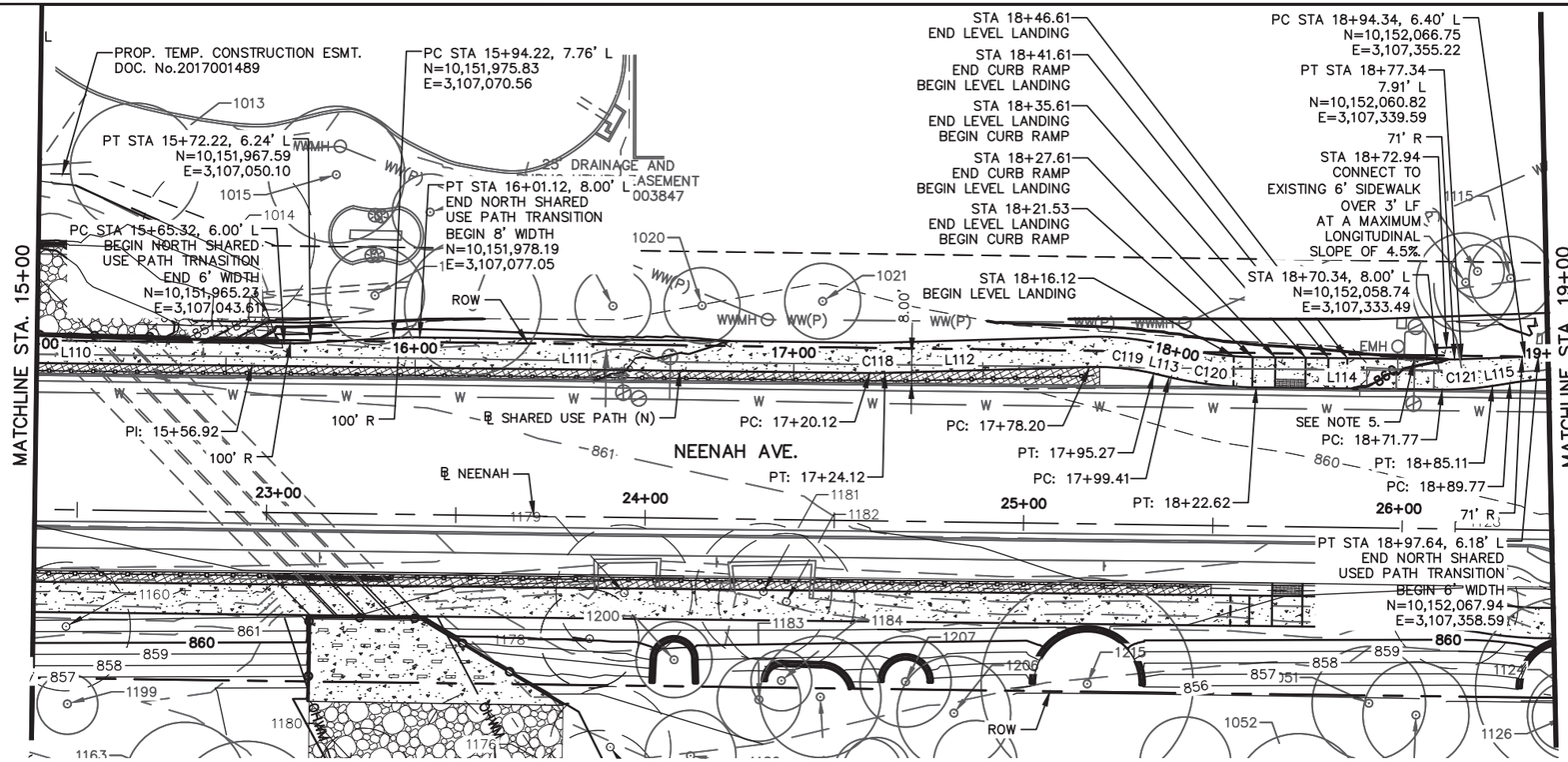

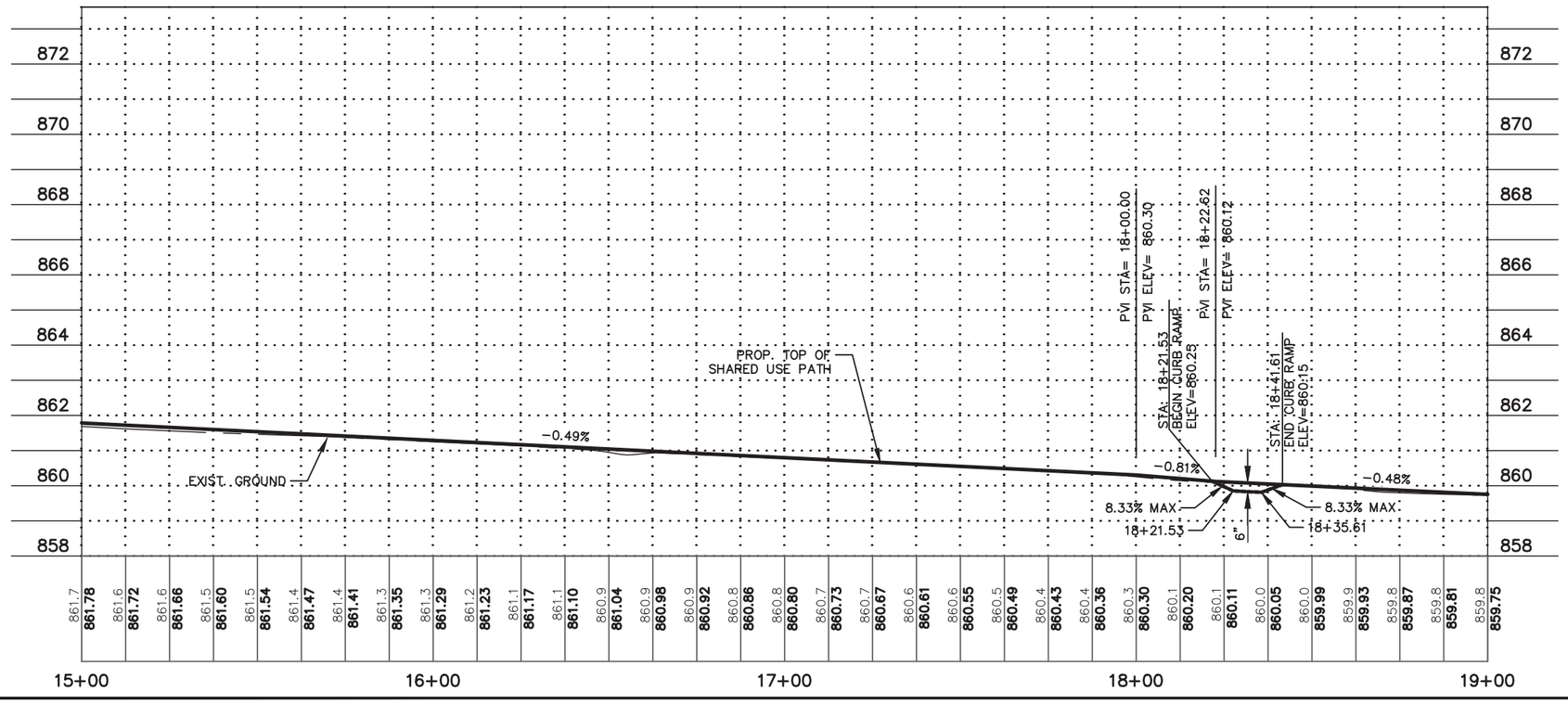

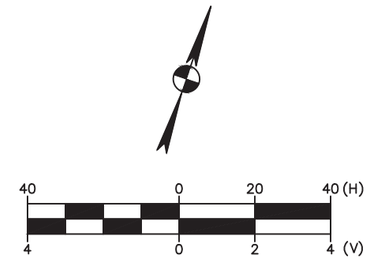

NOTES:

1. REFER TO PROJECT CONTROL DATA SHEET 2 FOR LINE AND CURVE TABLE DATA FOR THE NORTH SHARED USE PATH.
2. SEE DETAIL SHEET 95 FOR SHARED USE PATH TRANSITION DETAILS.
3. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.
4. SEE SIGNAGE AND PAVEMENT MARKING SHEETS FOR GUARDRAIL INFORMATION.
5. CONTRACTOR TO PROTECT EXISTING WATER VAULT DURING CONSTRUCTION. ADJUST SHARED USE PATH WIDTH AND ELEVATION IN THE FIELD. CROSS SLOPE SHALL NOT EXCEED 1.5% AND ELEVATION DIFFERENCE BETWEEN THE TOP OF PATH AND TOP OF VAULT SHALL NOT EXCEED TWO INCHES.
6. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
7. CROSS SLOPE SHALL BE 1.5% FOR THE SHARED USE PATH AND SIDEWALKS.
8. REFER TO PROPOSED TYPICAL SECTIONS SHARED USE PATH FOR ADDITIONAL INFORMATION INCLUDING LIMITS OF CONSTRUCTION WITHIN ½ CRZ.

8.4.17
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SHARED USE PATH (N) PLAN AND PROFILE STA. 15+00 TO STA. 19+00

SHEET 82 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				82

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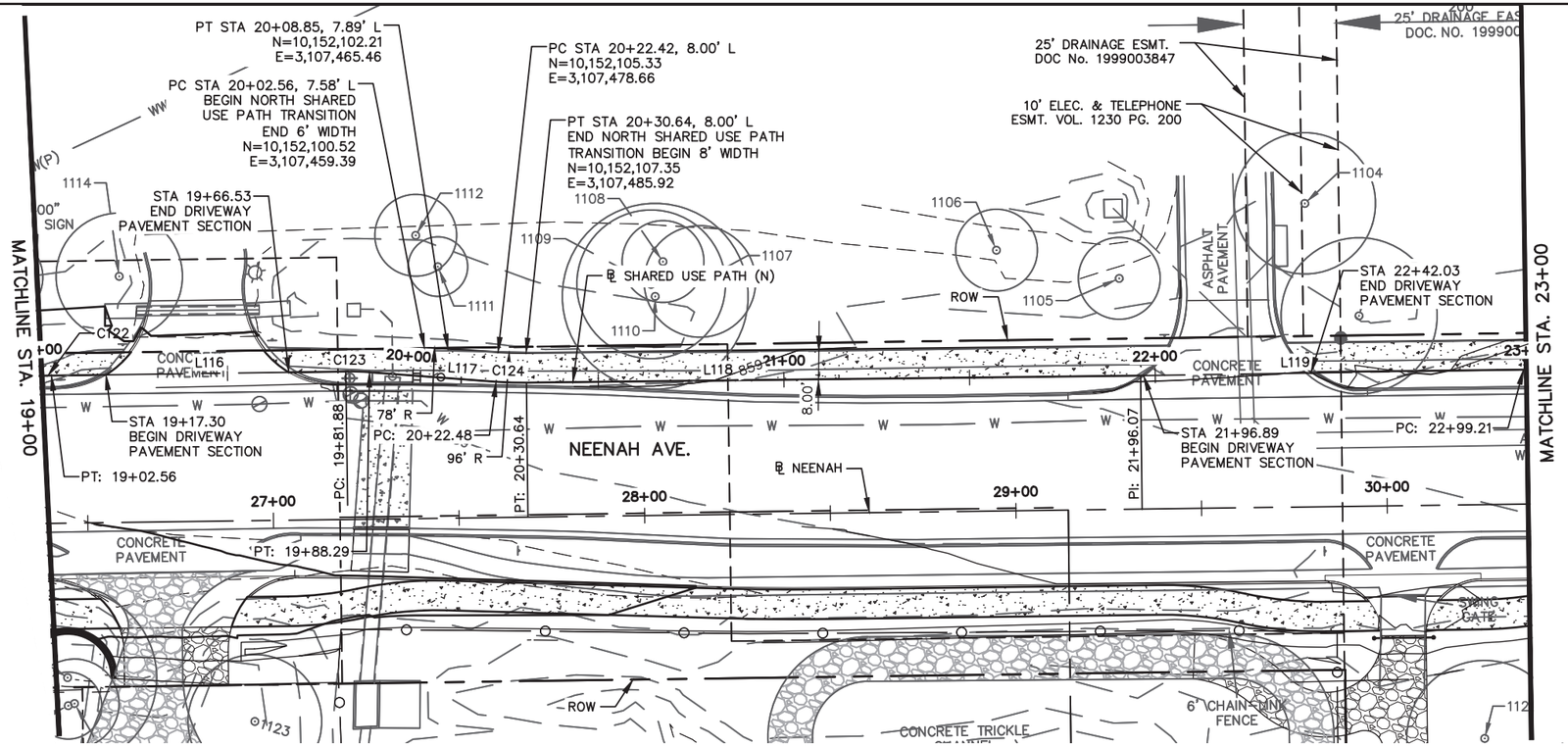

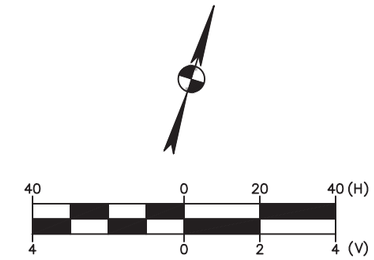

NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 2 FOR LINE AND CURVE TABLE DATA FOR THE NORTH SHARED USE PATH.
2. SEE DETAIL SHEET 95 FOR SHARED USE PATH TRANSITION DETAILS.
3. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.
4. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
5. CROSS SLOPE SHALL BE 1.5% FOR THE SHARED USE PATH AND SIDEWALKS.
6. REFER TO PROPOSED TYPICAL SECTIONS SHARED USE PATH FOR ADDITIONAL INFORMATION INCLUDING LIMITS OF CONSTRUCTION WITHIN ½ CRZ.

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SHARED USE PATH (N) PLAN AND PROFILE STA. 19+00 TO STA. 23+00

SHEET 83 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				83

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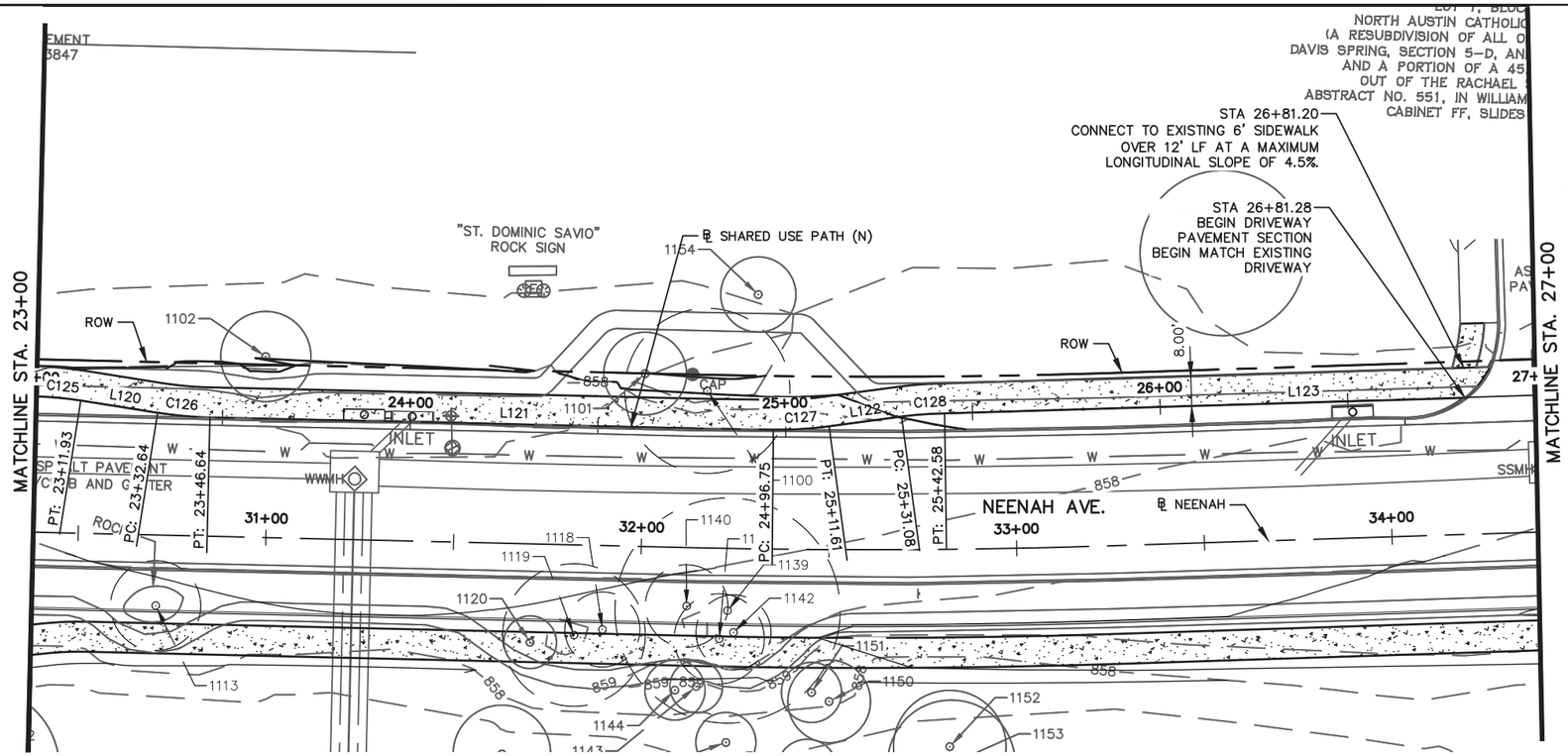

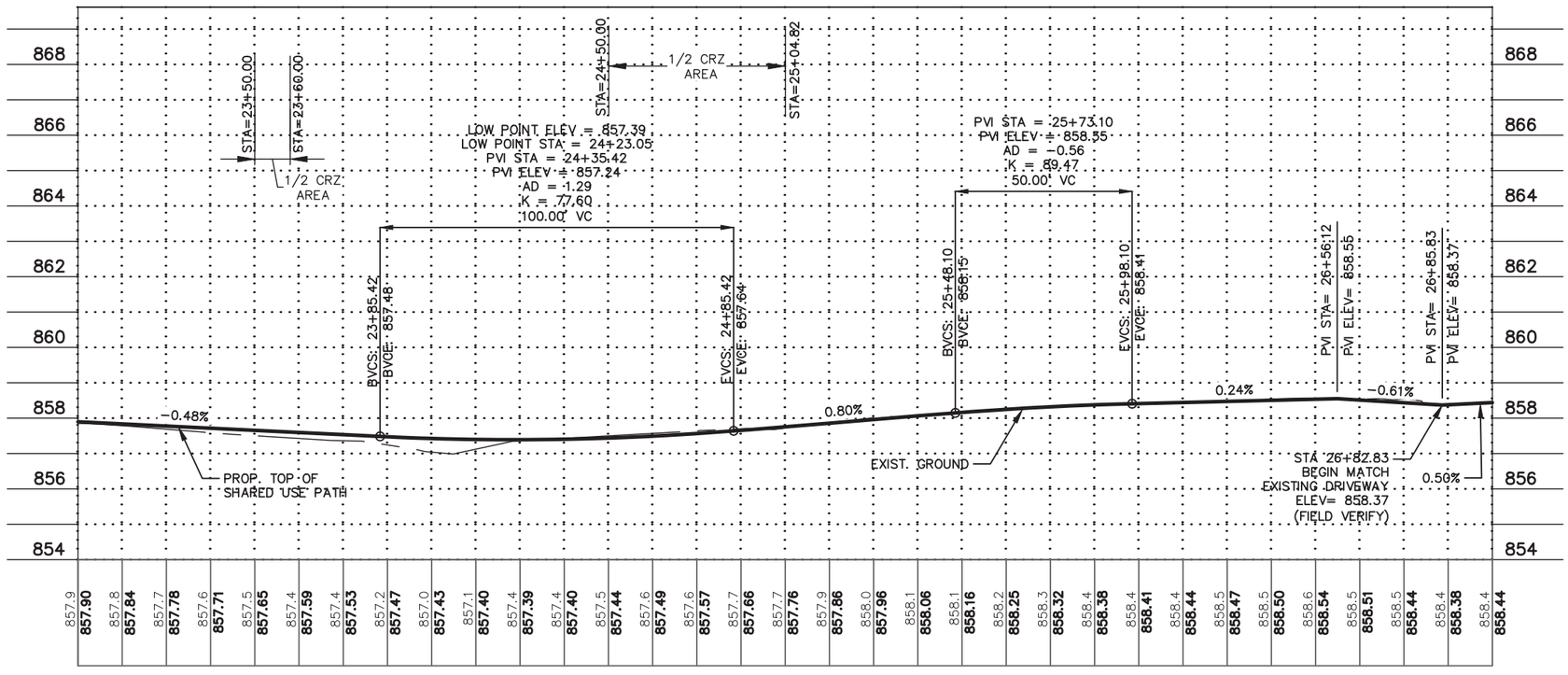

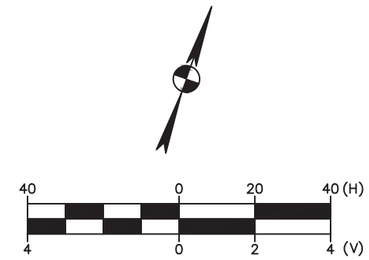

NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 2 FOR LINE AND CURVE TABLE DATA FOR THE NORTH SHARED USE PATH.
2. SEE DETAIL SHEET 95 FOR SHARED USE PATH TRANSITION DETAILS.
3. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.
4. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
5. CROSS SLOPE SHALL BE 1.5% FOR THE SHARED USE PATH AND SIDEWALKS.
6. REFER TO PROPOSED TYPICAL SECTIONS SHARED USE PATH FOR ADDITIONAL INFORMATION INCLUDING LIMITS OF CONSTRUCTION WITHIN ½ CRZ.

8.4.17
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SHARED USE PATH (N) PLAN AND PROFILE STA. 23+00 TO STA. 27+00

SHEET 84 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				84

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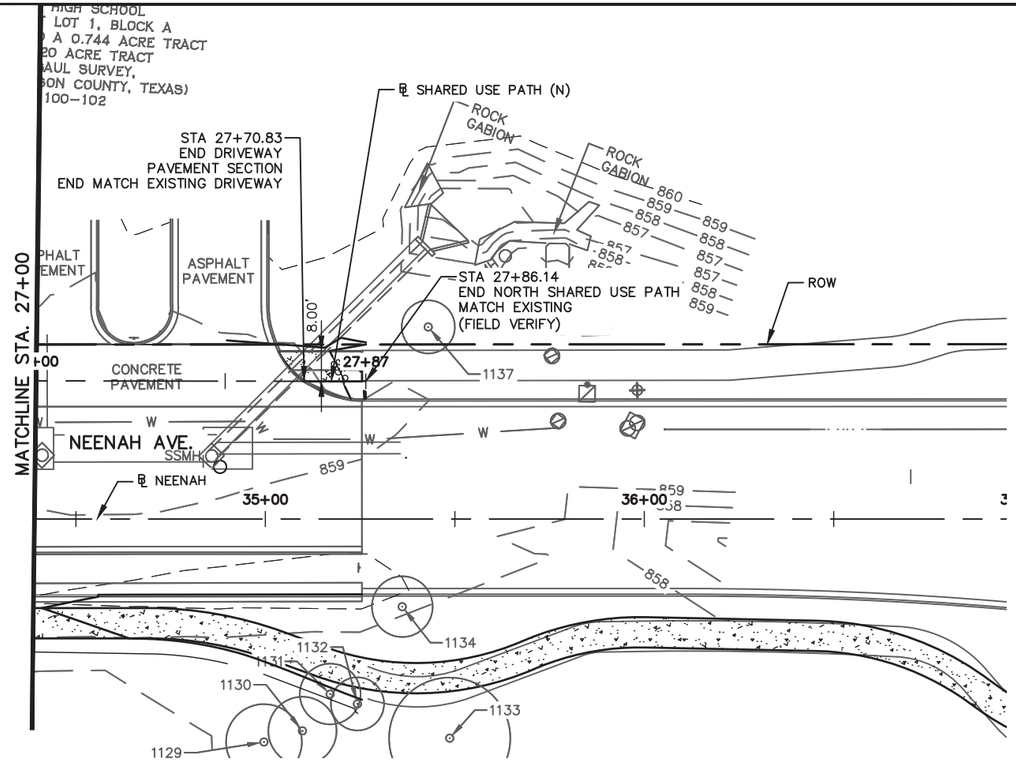
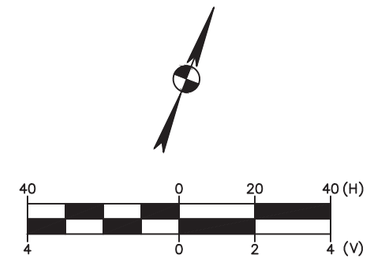
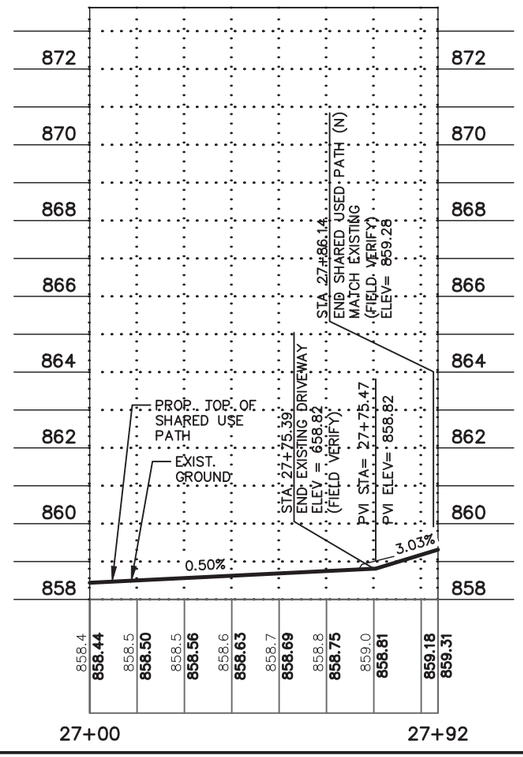




NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 2 FOR LINE AND CURVE TABLE DATA FOR THE NORTH SHARED USE PATH.
2. SEE DETAIL SHEET 95 FOR SHARED USE PATH TRANSITION DETAILS.
3. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.
4. THE NEENAH AVE. EXTENSION PROJECT WAS CONSTRUCTED AFTER SURVEY WAS PERFORMED ON THIS PROJECT. CONTRACTOR TO PROTECT ALL EXISTING INFRASTRUCTURE.
5. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
6. CROSS SLOPE SHALL BE 1.5% FOR THE SHARED USE PATH AND SIDEWALKS.
7. REFER TO PROPOSED TYPICAL SECTIONS SHARED USE PATH FOR ADDITIONAL INFORMATION INCLUDING LIMITS OF CONSTRUCTION WITHIN ½ CRZ.



8.4.17
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SHARED USE PATH (N) PLAN AND PROFILE STA. 27+00 TO END

SHEET 85 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				85

SP-2016-0186D

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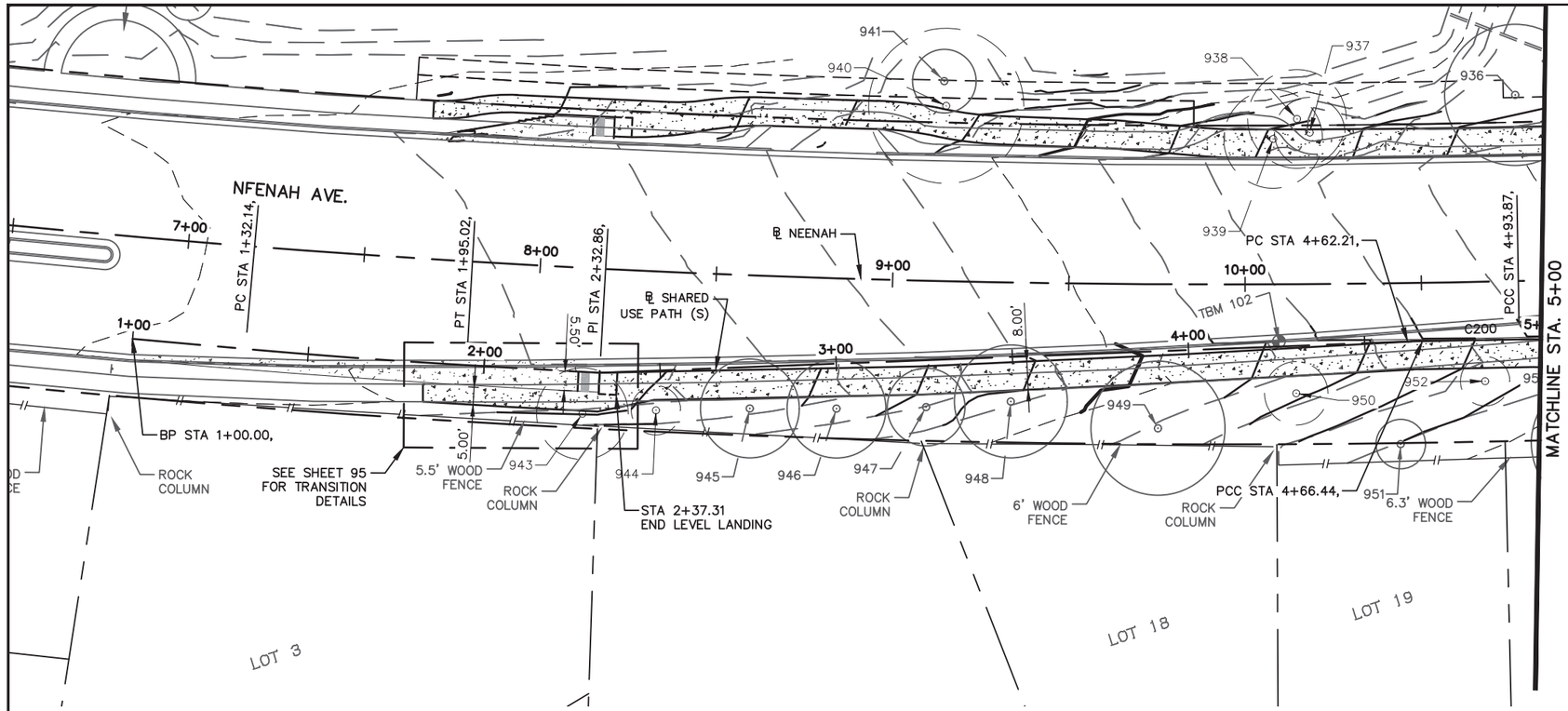

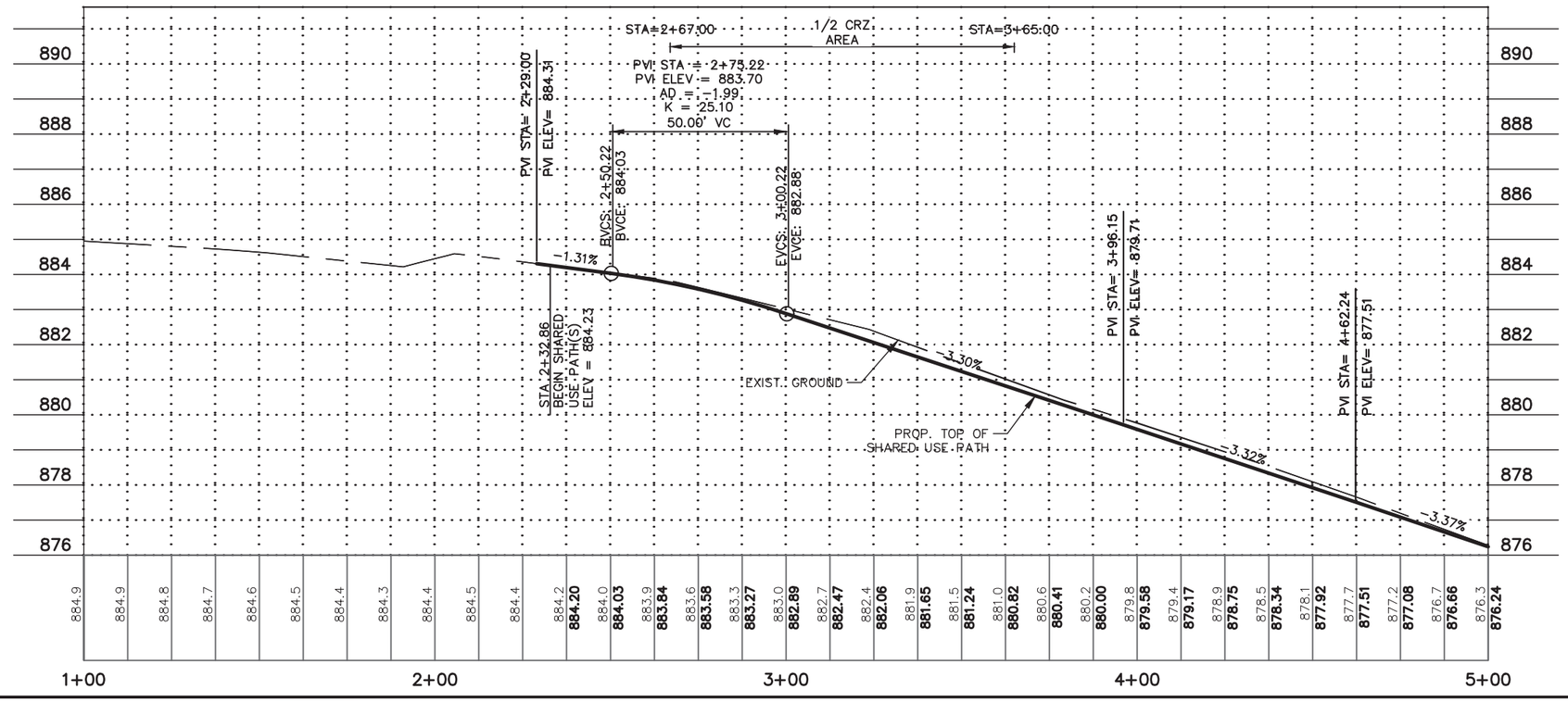

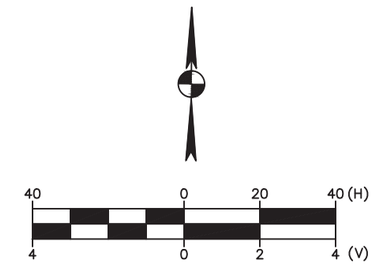

NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 3 FOR LINE AND CURVE TABLE DATE FOR THE SOUTH SHARED USE PATH.
2. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

8.4.17
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SHARED USE PATH (S) PLAN AND PROFILE STA. 1+00 TO STA. 5+00

SHEET 86 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				86

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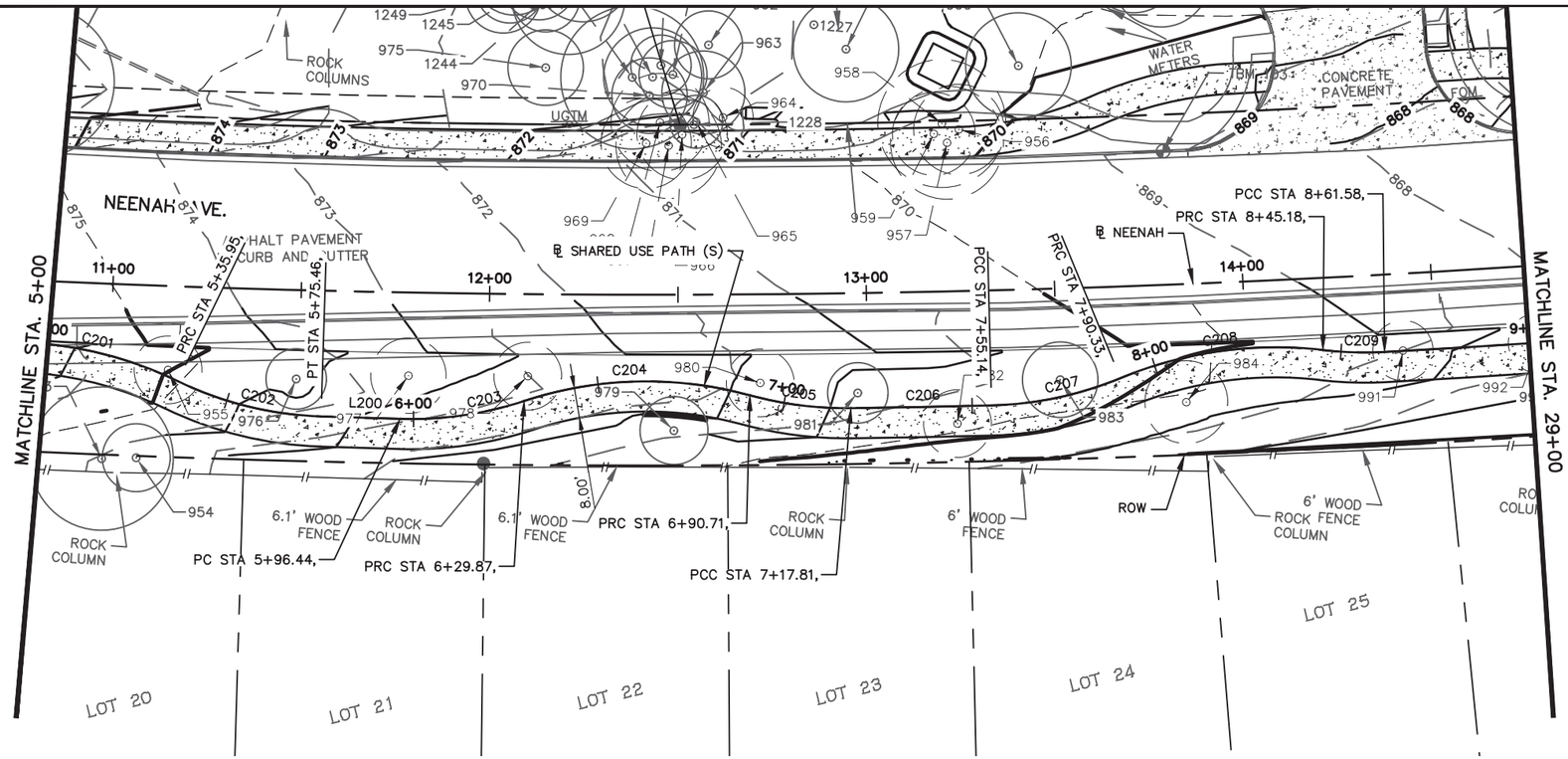

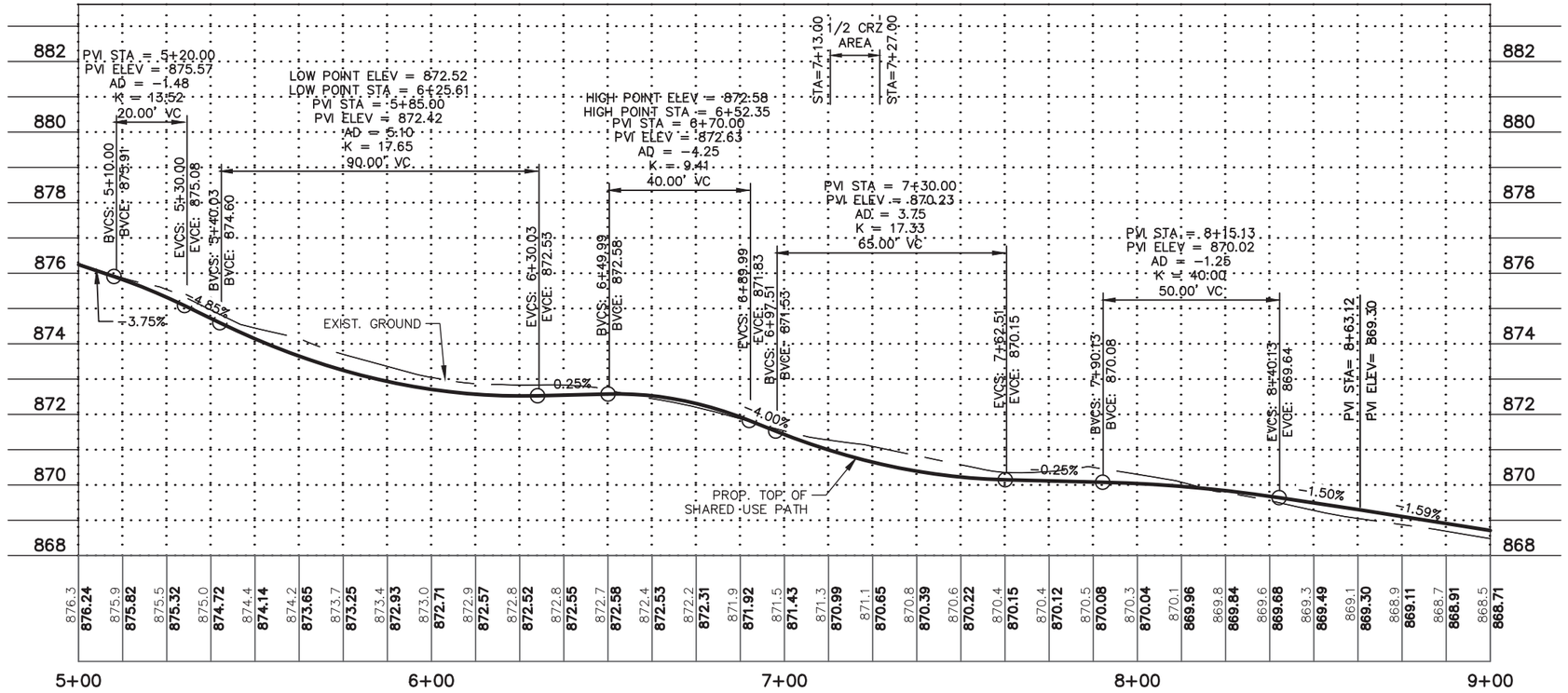

NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 3 FOR LINE AND CURVE TABLE DATE FOR THE SOUTH SHARED USE PATH.
2. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

8.4.17
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SHARED USE PATH (S) PLAN AND PROFILE STA. 5+00 TO STA. 9+00

SHEET 87 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				87

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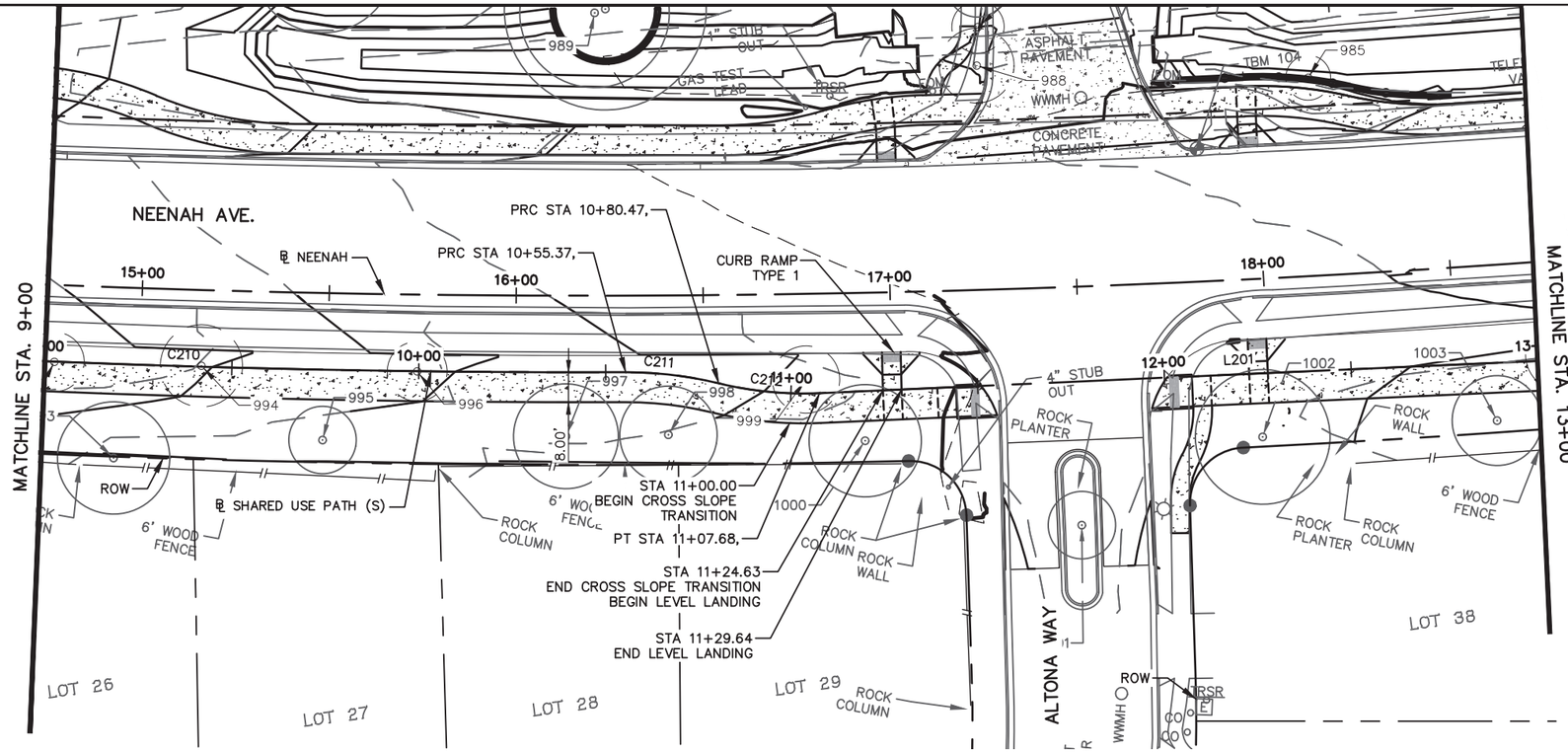

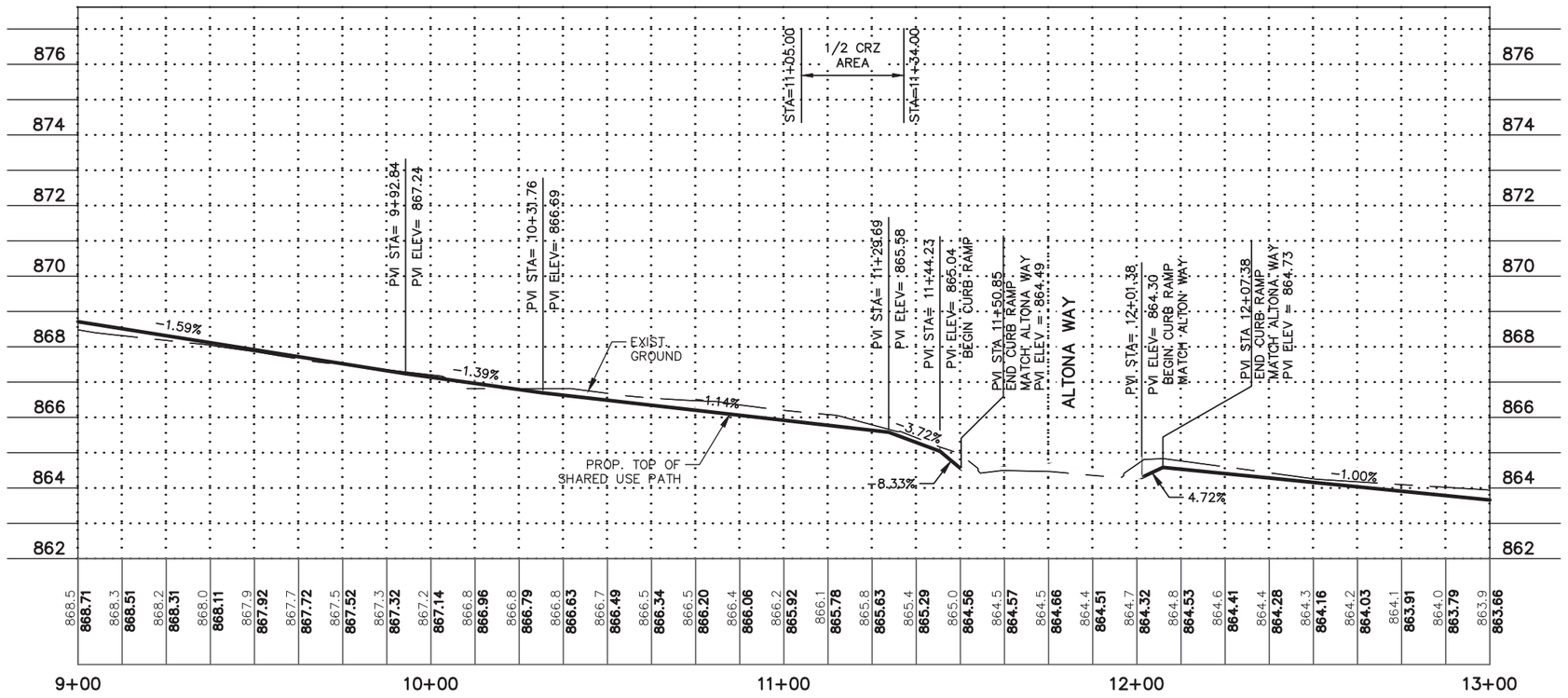

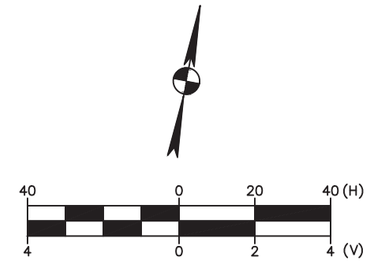

NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 3 FOR LINE AND CURVE TABLE DATE FOR THE SOUTH SHARED USE PATH.
2. REFER TO ALTONA WAY PLAN AND PROFILE SHEET FOR SIDEWALK INFORMATION.
3. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

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SHARED USE PATH (S) PLAN AND PROFILE STA. 9+00 TO STA. 13+00

SHEET 88 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				88

SP-2016-0186D

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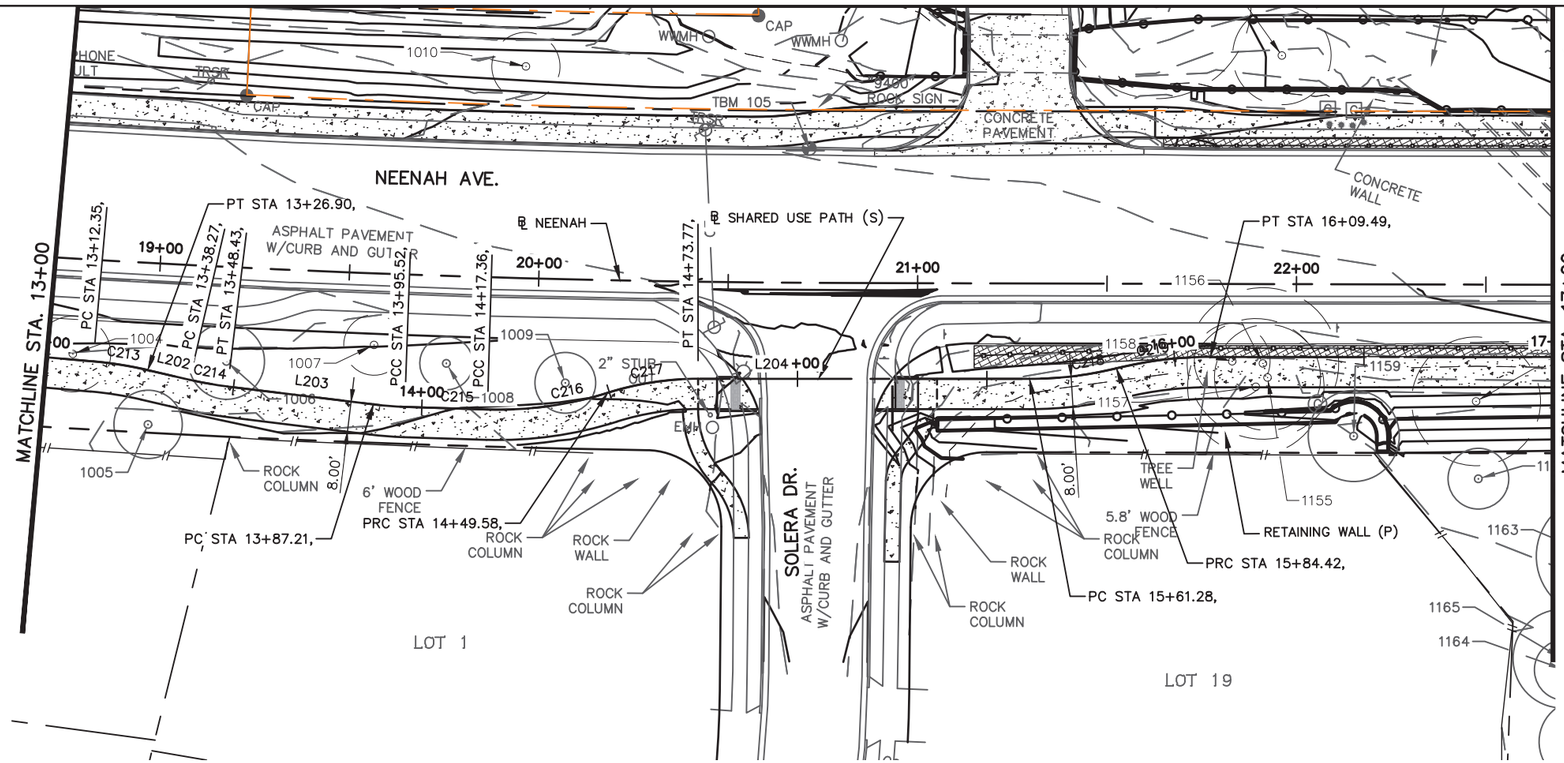

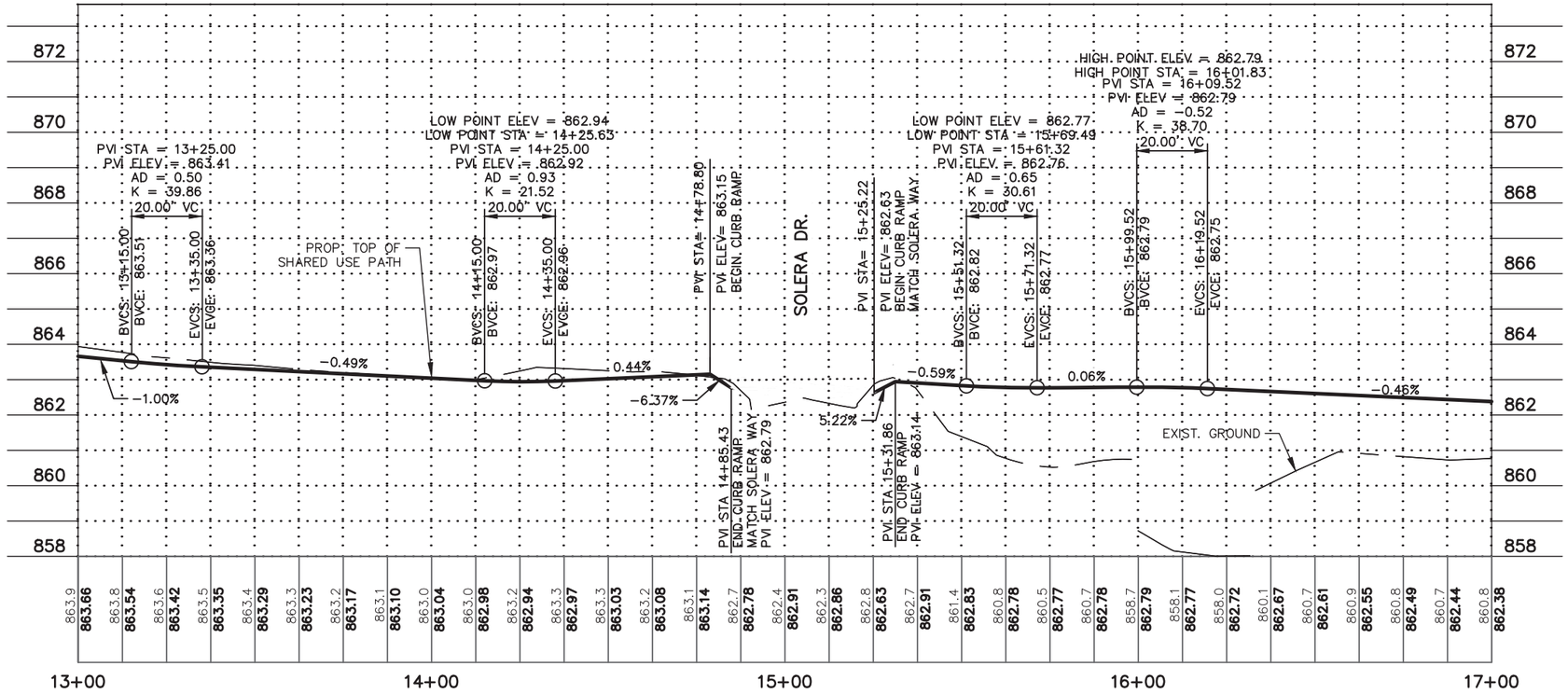

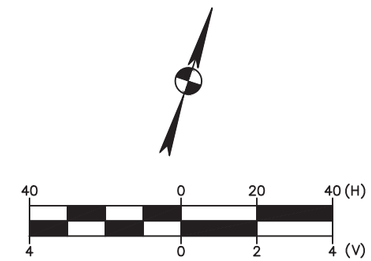

NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 3 FOR LINE AND CURVE TABLE DATE FOR THE SOUTH SHARED USE PATH.
2. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

8-4-17
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SHARED USE PATH (S) PLAN AND PROFILE STA. 13+00 TO STA. 17+00

SHEET 89 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				89

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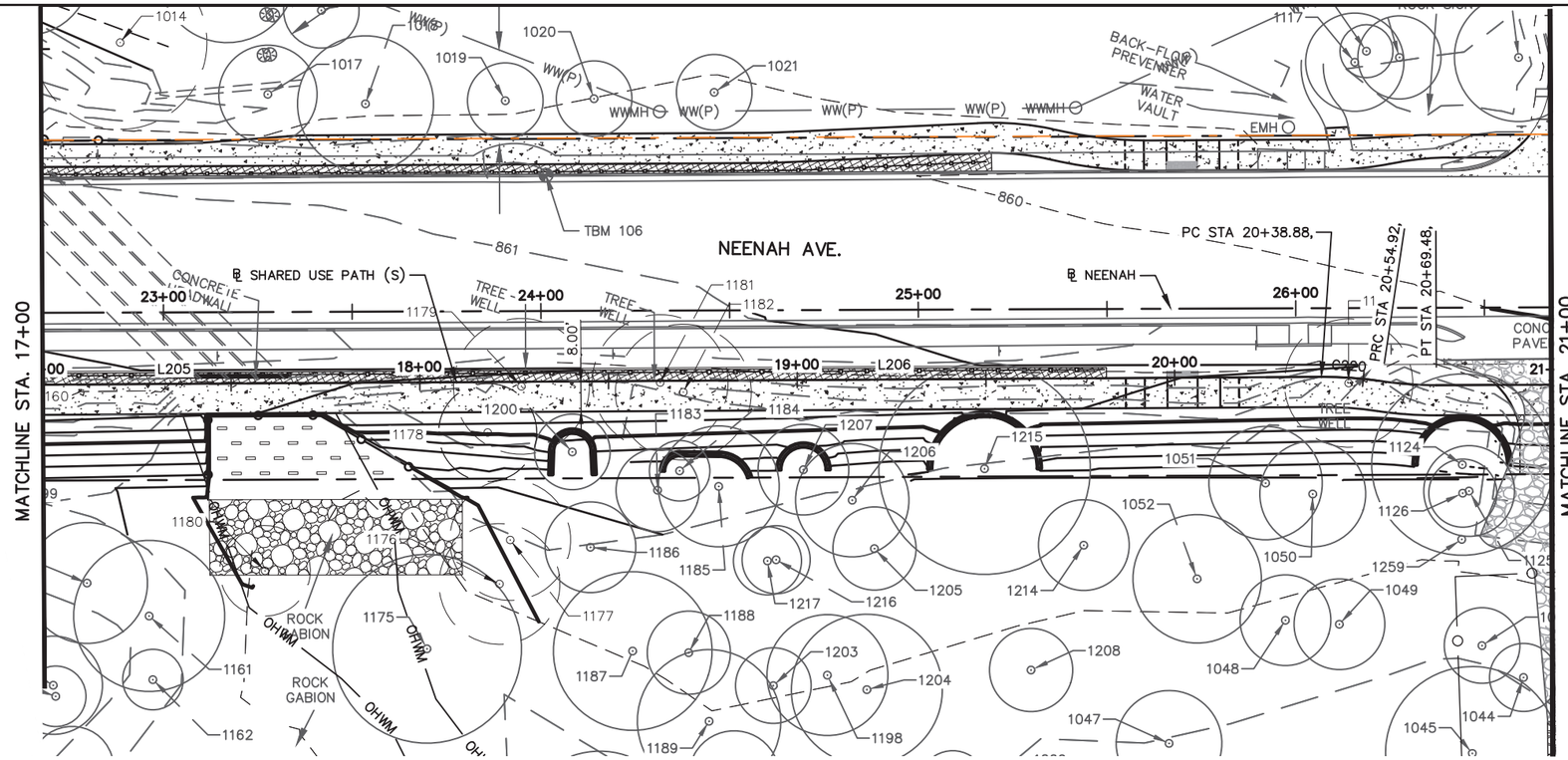
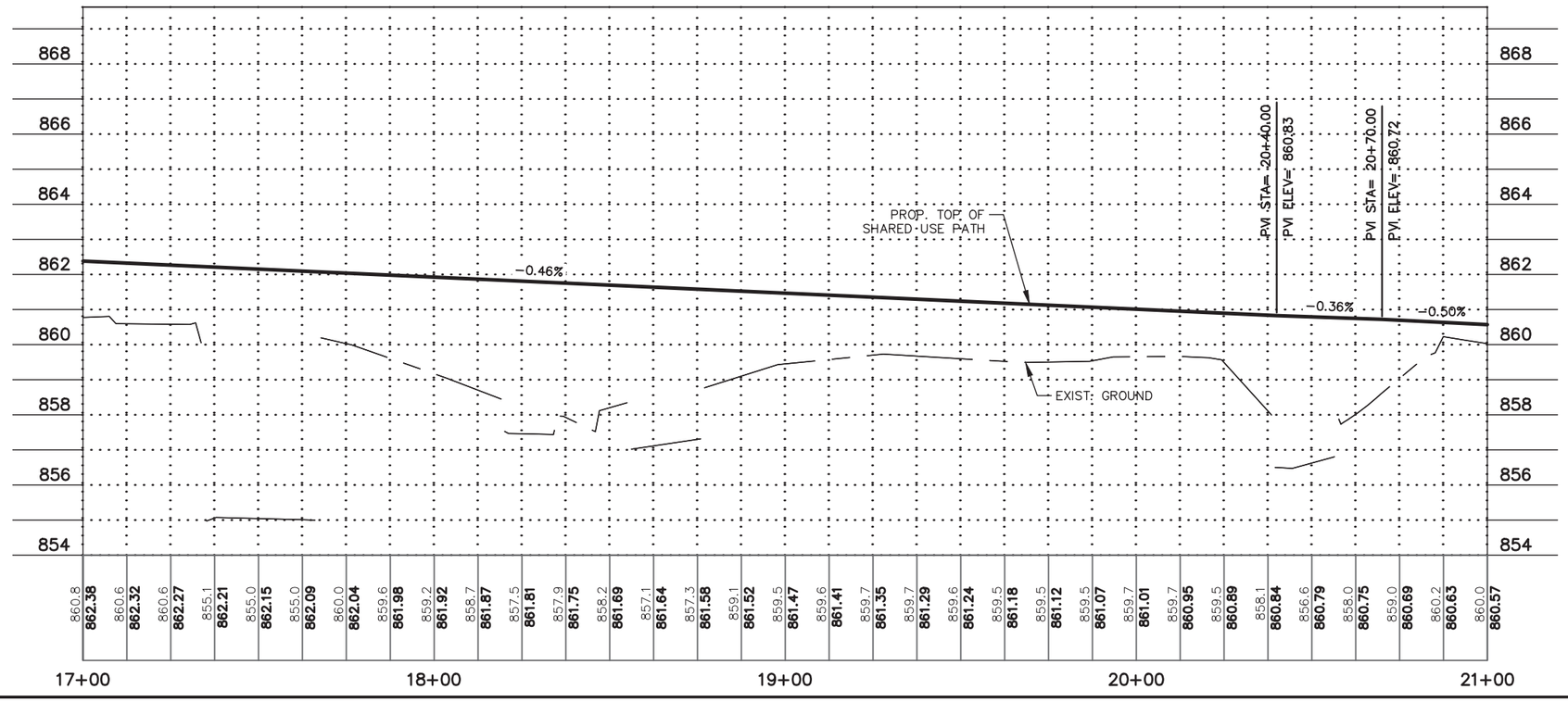
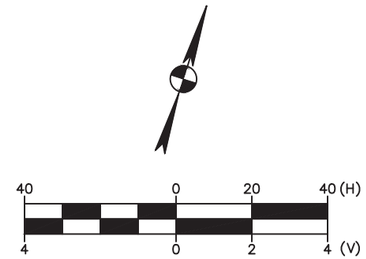
SP-2016-0186D







NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 3 FOR LINE AND CURVE TABLE DATE FOR THE SOUTH SHARED USE PATH.
2. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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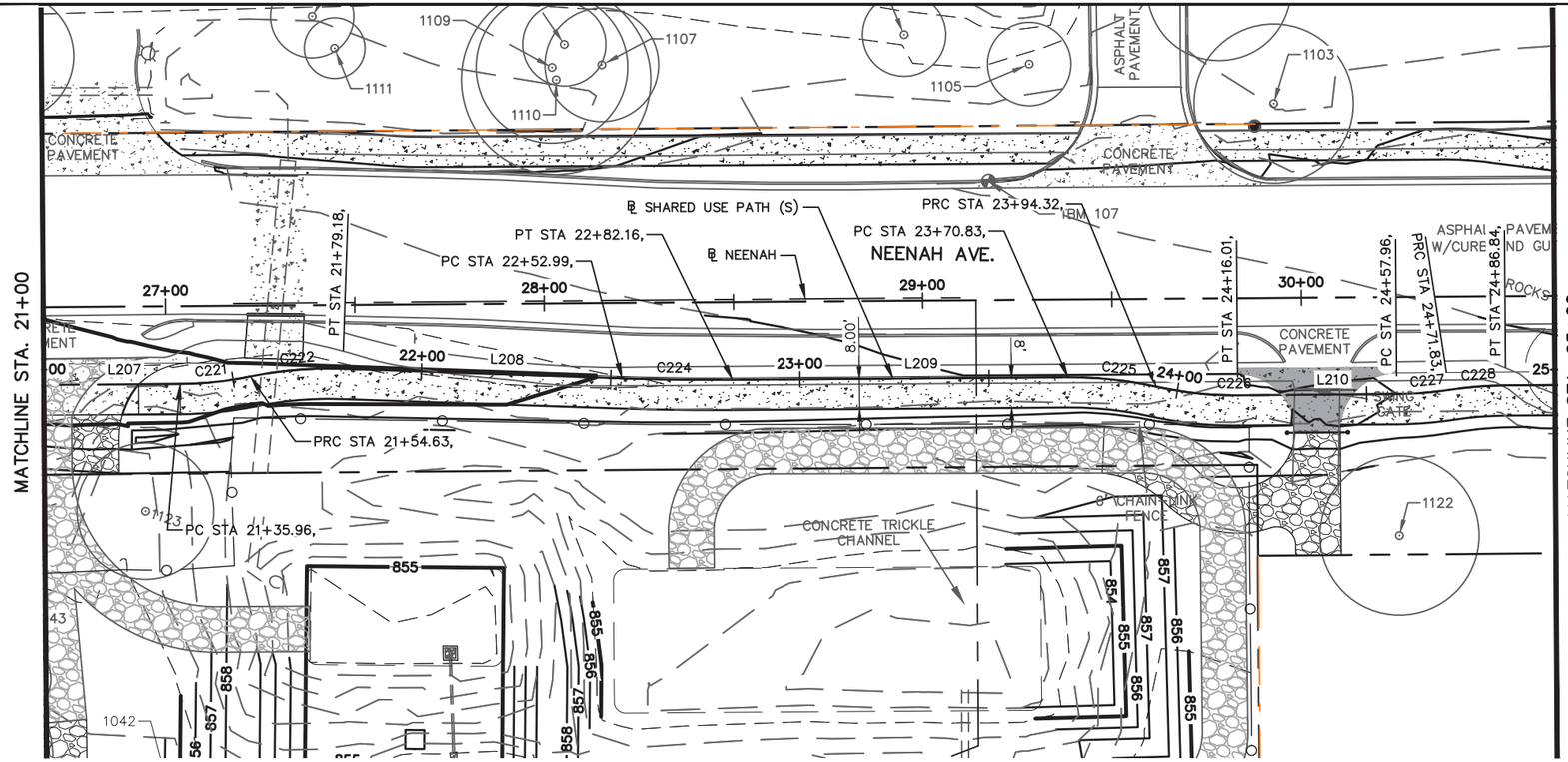
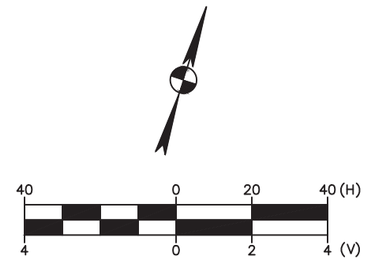
SHARED USE PATH (S) PLAN AND PROFILE STA. 17+00 TO STA. 21+00

SHEET 90 OF 273

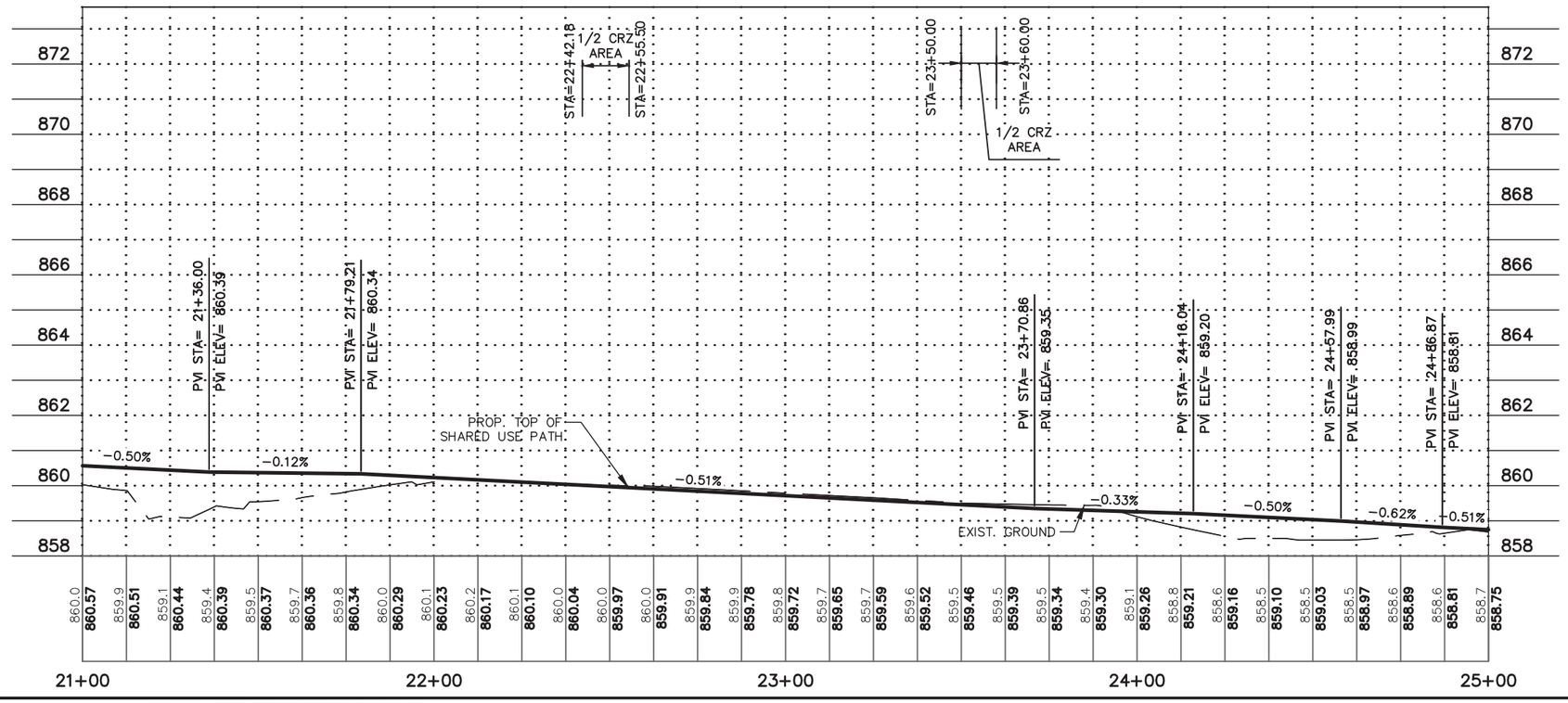
FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				90

SP-2016-0186D





NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 3 FOR LINE AND CURVE TABLE DATE FOR THE SOUTH SHARED USE PATH.
2. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.



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SHARED USE PATH (S) PLAN AND PROFILE STA. 21+00 TO STA. 25+00

SHEET 91 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				91

SP-2016-0186D

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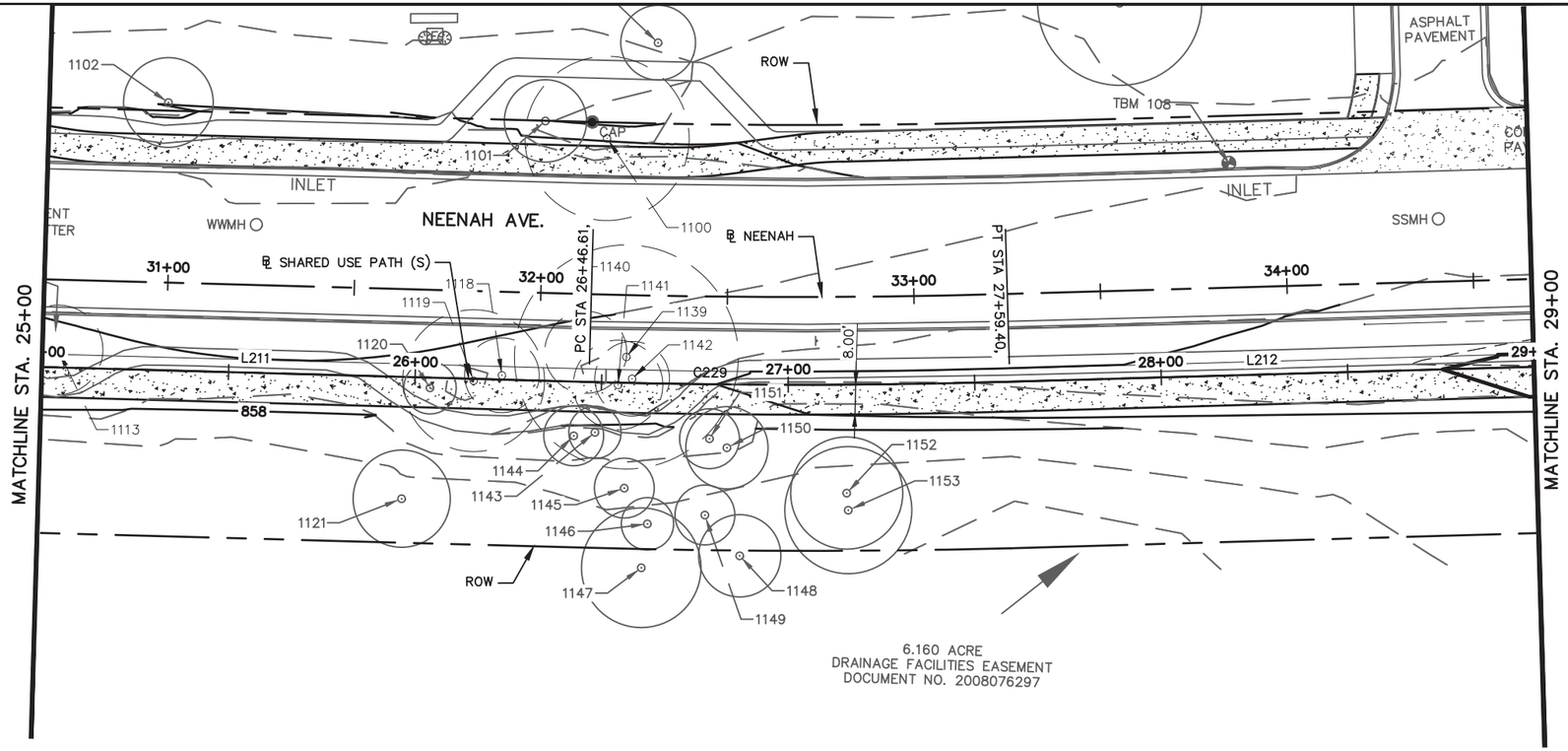
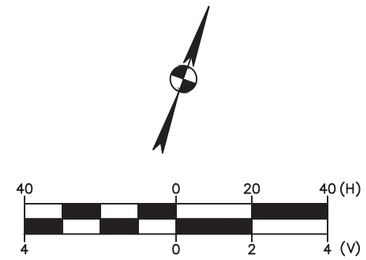
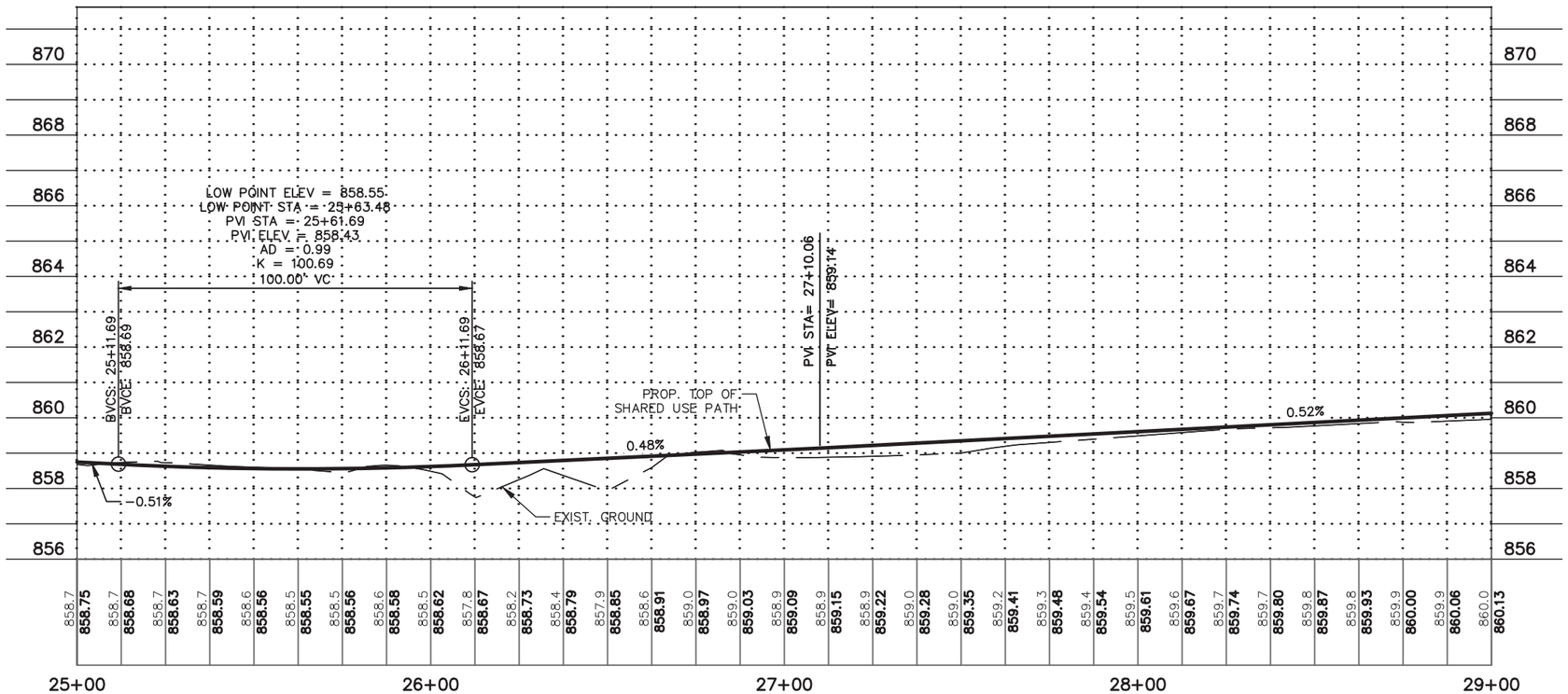




NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 3 FOR LINE AND CURVE TABLE DATE FOR THE SOUTH SHARED USE PATH.
2. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.



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SHARED USE PATH (S) PLAN AND PROFILE STA. 25+00 TO STA. 29+00

SHEET 92 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				92

SP-2016-0186D

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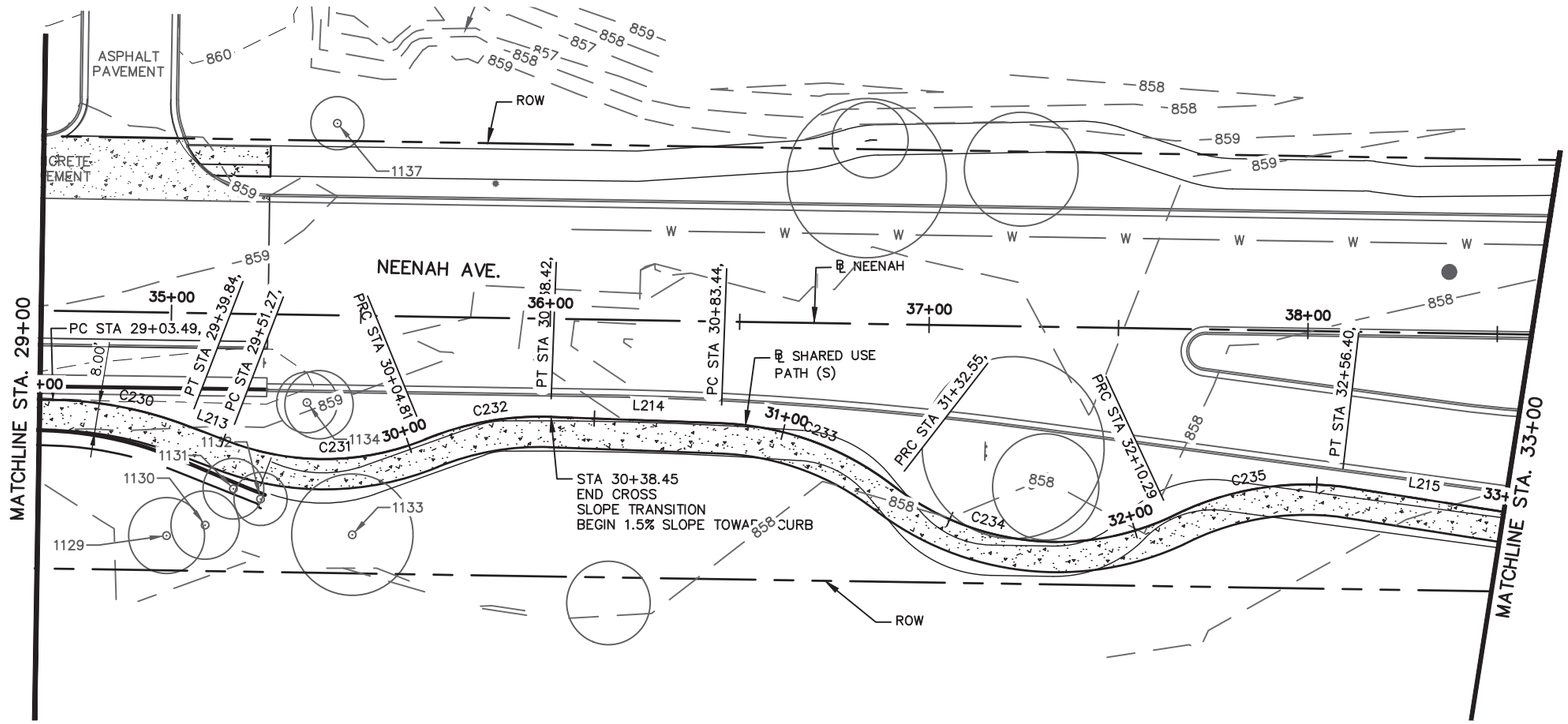
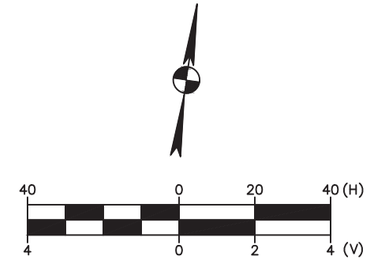
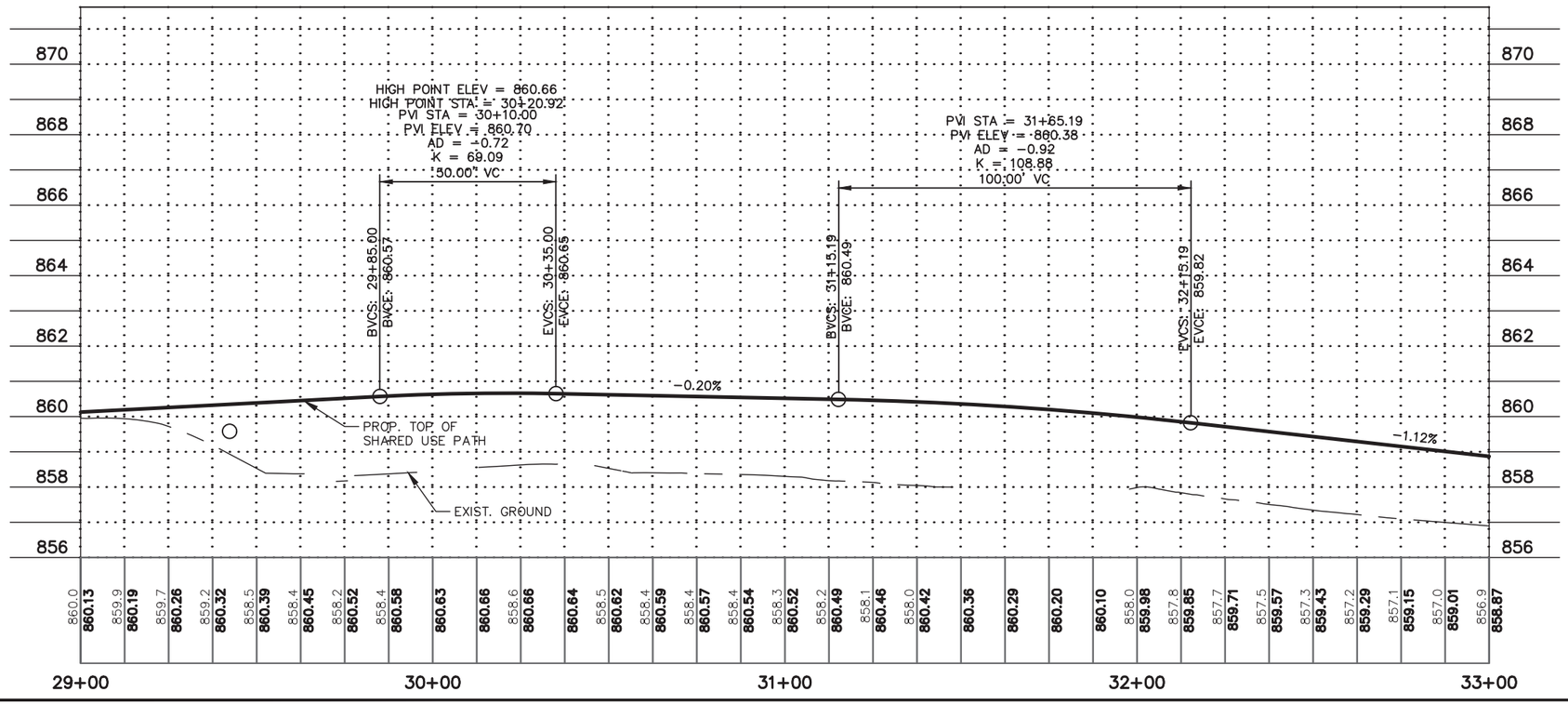




NOTES:
1. REFER TO PROJECT CONTROL DATA SHEET 3 FOR LINE AND CURVE TABLE DATE FOR THE SOUTH SHARED USE PATH.
2. THE NEENAH AVE. EXTENSION PROJECT INFORMATION SHOWN WAS TAKEN FROM PLANS PROVIDED BY OTHERS. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL INFORMATION AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT ALL EXISTING INFRASTRUCTURE.
3. TOPOGRAPHICAL INFORMATION SHOWN EAST OF NEENAH BASELINE STATION 35+25.47 DOES NOT REFLECT CURRENT GROUND INFORMATION. CONTRACTOR TO FIELD VERIFY PROPOSED GRADES CLOSELY MATCH EXISTING GROUND.



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SHARED USE PATH (S) PLAN AND PROFILE STA. 29+00 TO 33+00

SHEET 93 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				93

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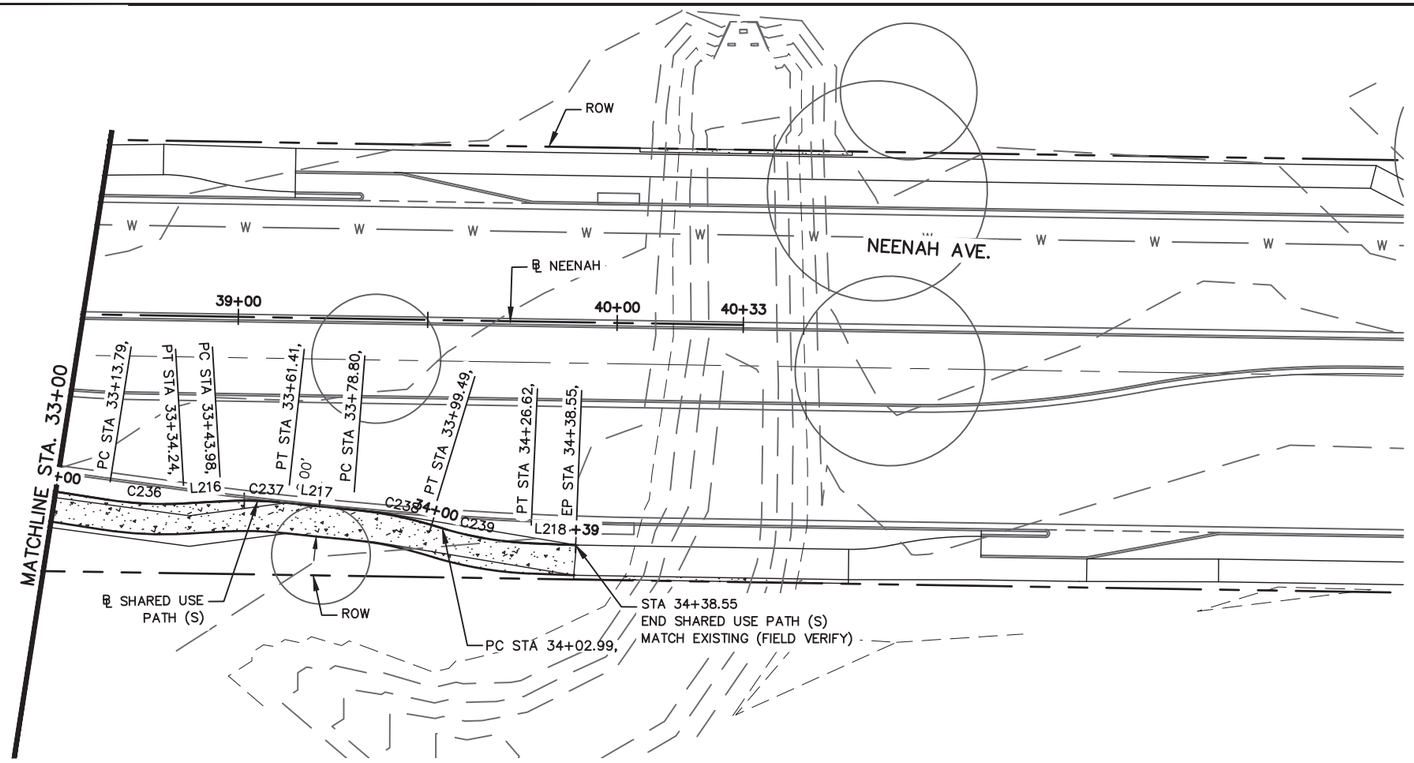
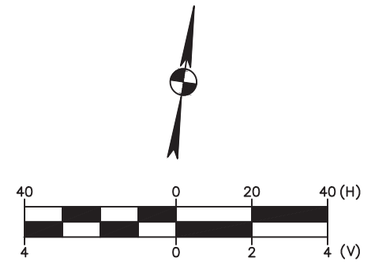
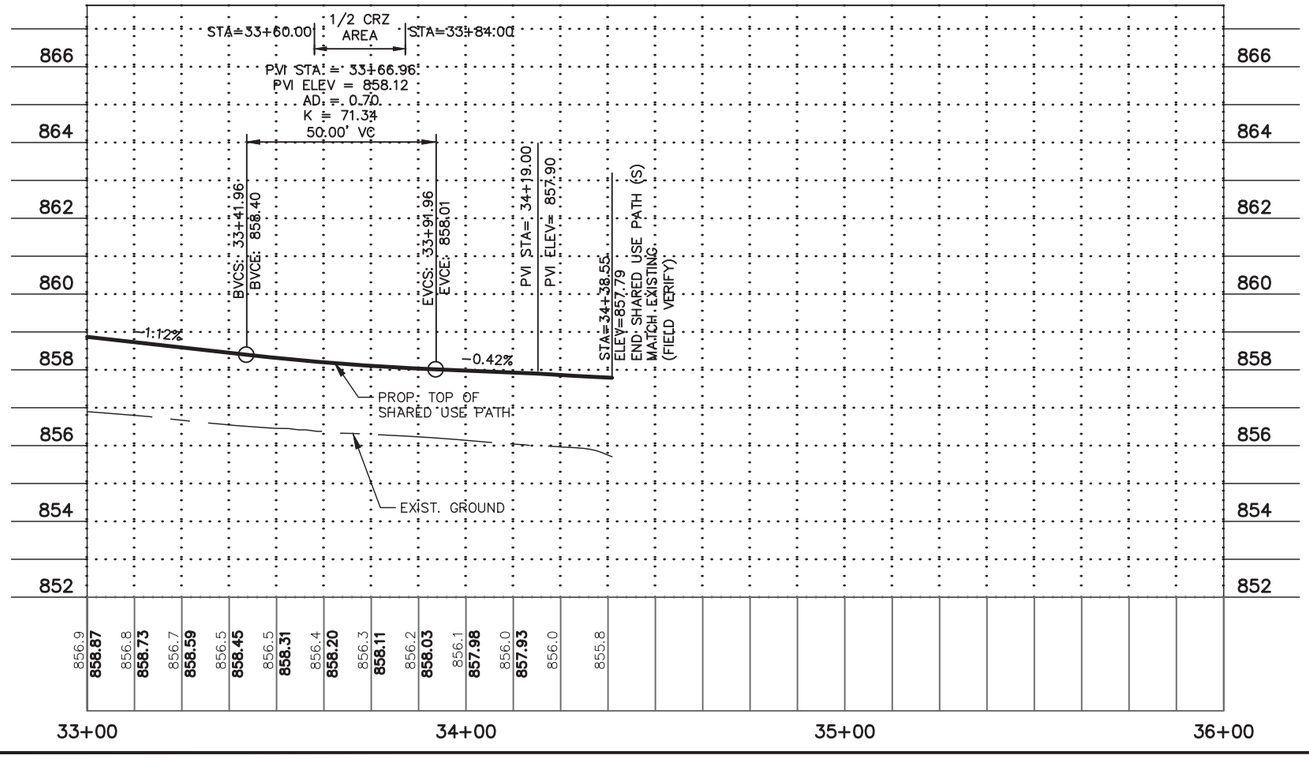




NOTES:

1. REFER TO PROJECT CONTROL DATA SHEET 3 FOR LINE AND CURVE TABLE DATE FOR THE SOUTH SHARED USE PATH.
2. THE NEENAH AVE. EXTENSION PROJECT INFORMATION SHOWN WAS TAKEN FROM PLANS PROVIDED BY OTHERS. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL INFORMATION AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT ALL EXISTING INFRASTRUCTURE.
3. TOPOGRAPHICAL INFORMATION SHOWN EAST OF NEENAH BASELINE STATION 35+25.47 DOES NOT REFLECT CURRENT GROUND INFORMATION. CONTRACTOR TO FIELD VERIFY PROPOSED GRADES CLOSELY MATCH EXISTING GROUND.



8.4.17
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Stephane D Blew

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SHARED USE PATH (S) PLAN AND PROFILE STA. 33+00 TO END

SHEET 94 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				94

SP-2016-0186D

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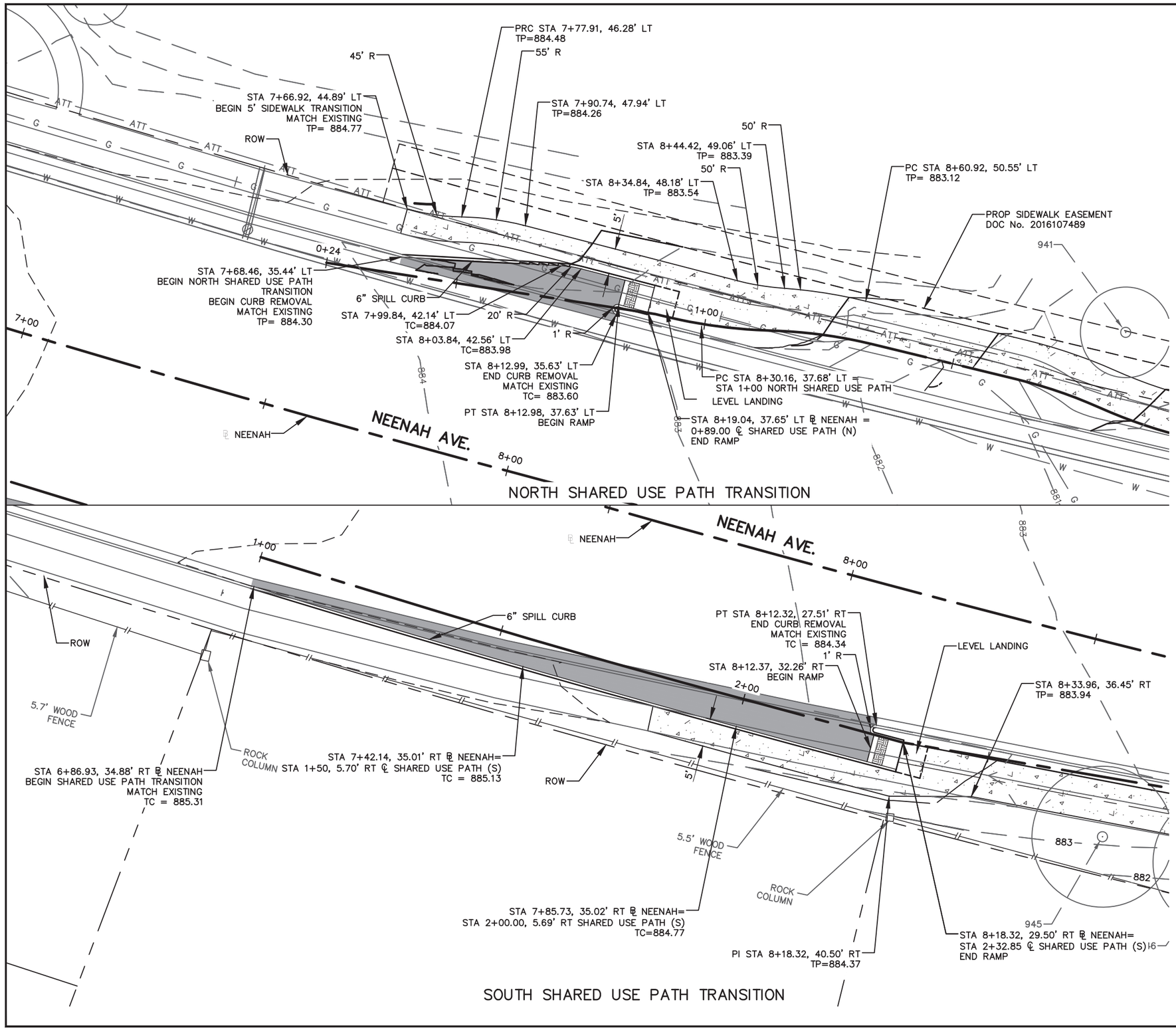

20 0 10 20

1" = 20'

NOTES:
1. REFER TO ROADWAY PLAN AND PROFILE SHEETS FOR MORE INFORMATION.
2. REFER TO SIGNAGE AND PAVEMENT MARKING LAYOUT SHEETS FOR MORE INFORMATION AND GUARD FENCE.

LEGEND

- ROW
- 859 — PROP. CONTOURS
- 860 — EXIST. CONTOURS
- CONCRETE PAVEMENT
- SHARED USE PATH

8.4.17
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SHARED USE PATH TRANSITION DETAILS

SHEET 95 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				95

SP-2016-0186D

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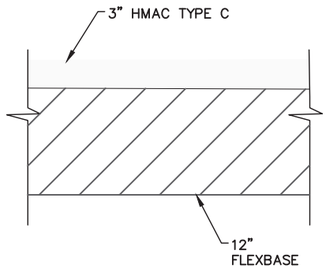
NO.	SHEET	STATION	EXIST. DRIVEWAY WIDTH AT ROW (F-F)	PROP. DRIVEWAY WIDTH AT ROW (F-F)	SEE DIAGRAM BELOW													QUANTITIES			
					L1	S1	L2	S2	L3	S3	L4	S4	L5	S5	L6	S6	R1	D1	CONCRETE DRIVE (SF)(TYPII)	HMAC DRIVE (SY)	GRAVEL (SF)	CURB *** (LF)
1	68	14+31.73 LT.	50.28	50.28	2	-1.77	15.06	5.64	8.02	1.58*	13.44	3.09	--	--	--	--	25	24.68	1912			32
2	69	17+48.42 LT.	51.35	50.11	9.29	10.33	8.05	1.55*	5.76	9.82	6.20	7.26	5.81	-1.16	--	--	25	23.93	1772			39
3	70	21+27.44 LT.	34.53	31.51	3.65	8.71	8.26	1.5*	9.38	4.80	4.36	2.18	5.96	0.0	4.58	-6.82	20	25.47	1215			50
4	71	26+69.18 RT.	48.88	44.48	4.99	6.41	8.00	-1.5*	17.50	-16.54**	12.58	-8.87**	--	--	--	--	20	1.79	637		1484	
5	71	26+79.75 LT.	39.97	35.76	3.57	9.00	9.73	1.5*	6.42	9.12	4.21	4.90	--	--	--	--	25	13.5	976			31
6	72	29+57.57 LT.	29.17	29.29	4.55	9.87	8.68	1.52*	16.99	1.76	--	--	--	--	--	--	25	8.95	748	26		21
7	72	30+03.20 RT.	18.19	18.65	5.29	7.69	8.00	-1.5*	12.15	-15.30**	--	--	--	--	--	--	15	--	340		1096	
8	73	34+65.59 LT.	73.96	74.25	3.88	4.67	11.05	1.5*	--	--	--	--	--	--	--	--	25	--	1476			

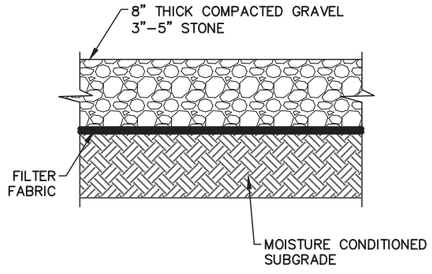
* SLOPE AT SHARED USE PATH.

** MAINTENANCE ACCESS RAMPS FOR WATER QUALITY & DETENTION POND 2.

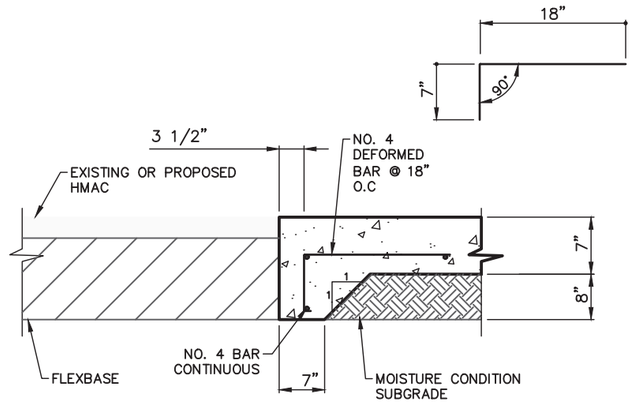
***CURBS HAVE BEEN QUANTIFIED INSIDE THE PROPERTY LINES ONLY.



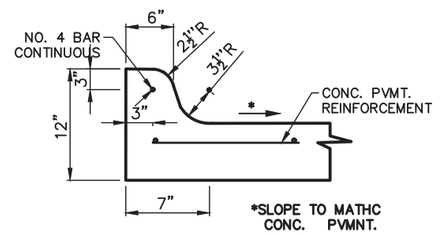
HMAC DRIVEWAY SECTION
N.T.S.



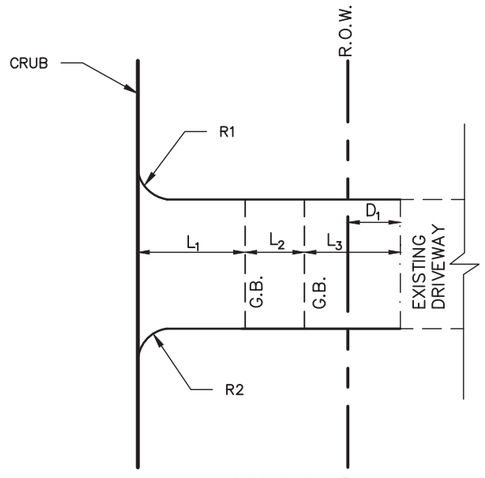
GRAVEL DRIVEWAY SECTION
N.T.S.



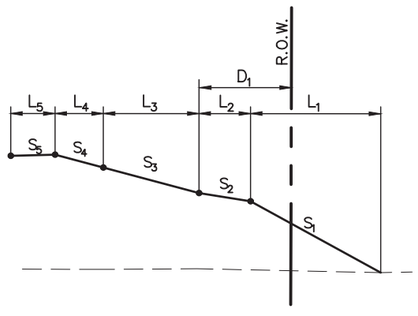
CONCRETE DRIVEWAY HEADER
N.T.S.



MONOLITHIC CURB DETAIL
N.T.S.



DRIVEWAY PLAN
N.T.S.



DRIVEWAY PROFILE
N.T.S.

NOTES:
S_1 , S_2 , S_3 = SLOPE IN %
L_1 , L_2 , L_3 , D_1 = LENGTH IN FEET
G.B. = GRADE BREAK
R1 = RADIUS IN FEET

SEE DRIVEWAY DETAILS FOR PAVEMENT SECTIONS UNLESS NOTED OTHERWISE.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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DRIVEWAY TABLE AND DETAILS

SHEET 96 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				96

SP-2016-0186D

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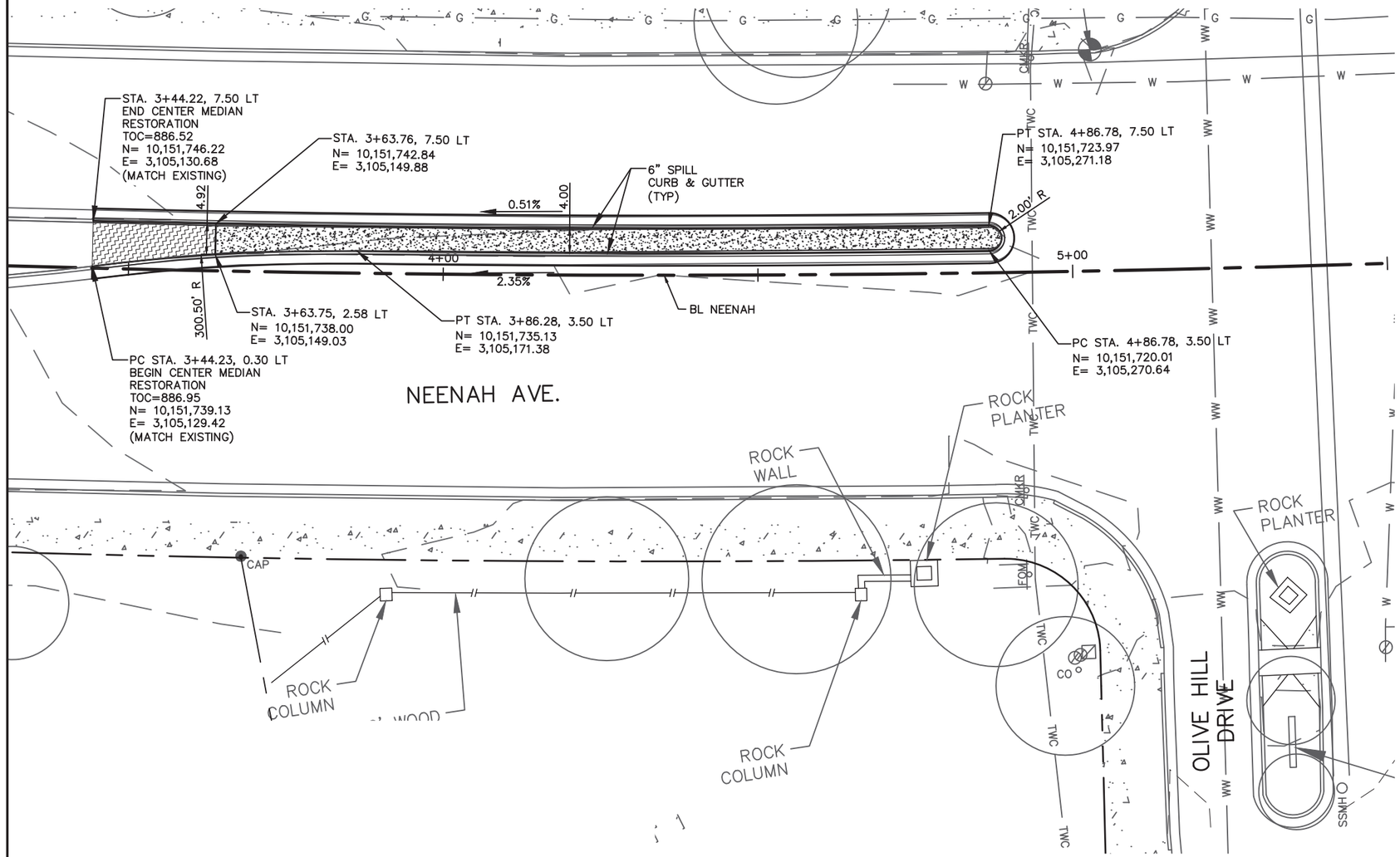
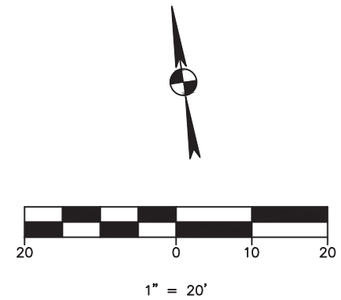


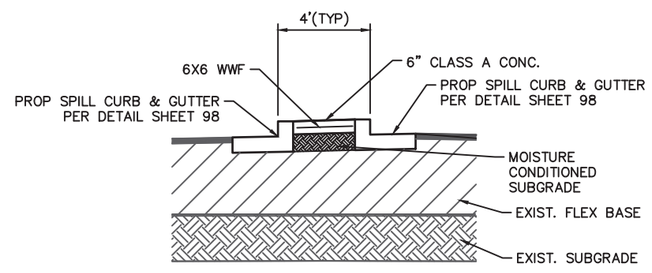


LEGEND

PROP. CONC. MEDIAN

RESTORE TOPSOIL AND VEGETATION

NOTES:
1. CONTRACTOR TO SAWCUT AND REMOVE TEMPORARY PAVING.
2. MATCH EXISTING EDGE OF PAVEMENT.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEET FOR MORE INFORMATION.
5. REFER TO SIGNING AND PAVEMENT MARKING LAYOUT SHEETS FOR MORE INFORMATION.
6. MATCH EXIST X-SLOPES AT TIE-IN LOCATIONS.
7. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.



MEDIAN DETAIL
NTS

8.4.17
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Stephanie D Blew

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MEDIAN REBUILD DETAIL

SHEET 97 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				97

SP-2016-0186D

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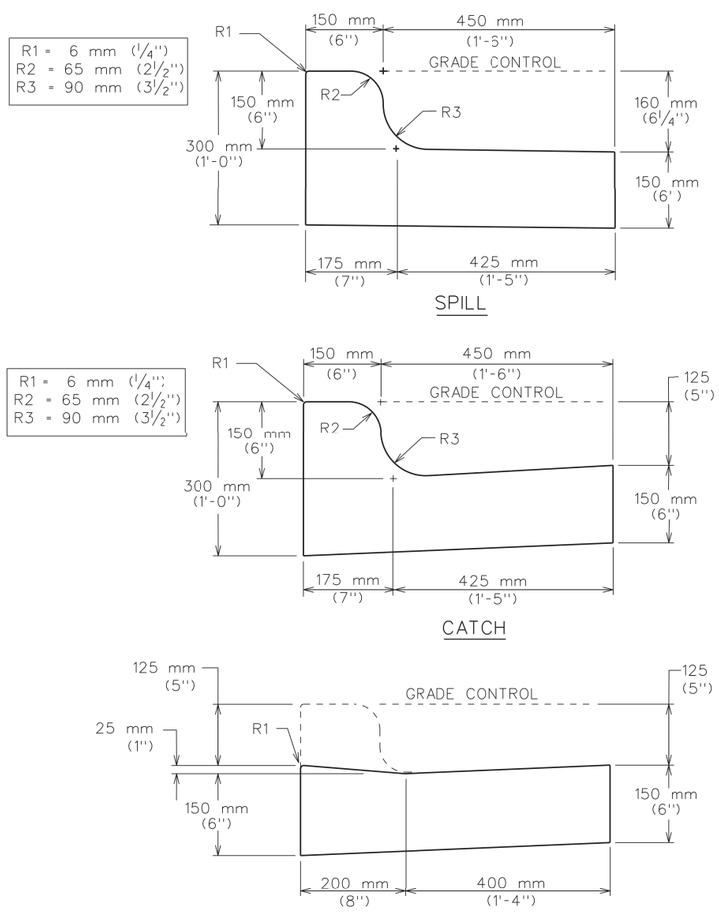
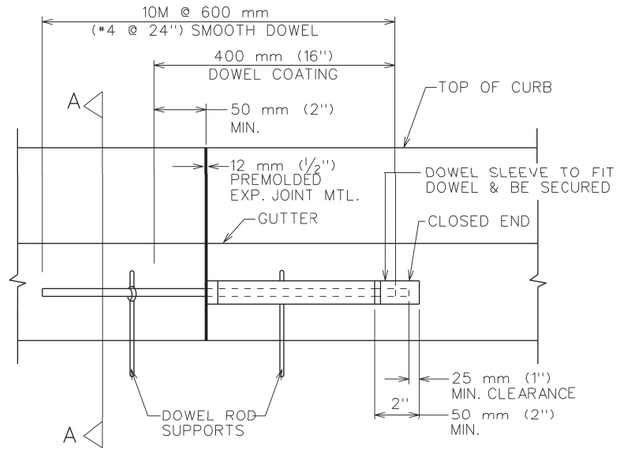


SPILL

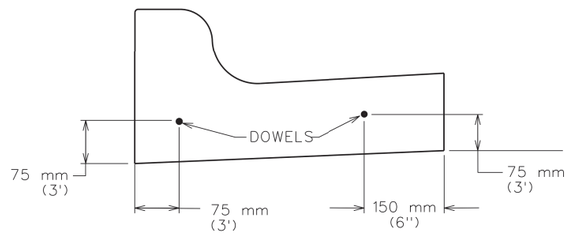
CATCH

LAYDOWN CURB

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		CURB AND GUTTER SECTION	
RECORD COPY SIGNED BY LINO RIVERA	*9/29/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-1



CURB EXPANSION JOINT DOWEL DETAIL



SECTION A-A

SEE STANDARD 430S-1 FOR TYPICAL CURB AND GUTTER SECTIONS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		CURB EXPANSION JOINT DOWEL DETAIL	
RECORD COPY SIGNED BY LINO RIVERA	*9/29/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-3

8-4-17
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PAVING DETAILS 1

SHEET 98 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				98

SP-2016-0186D

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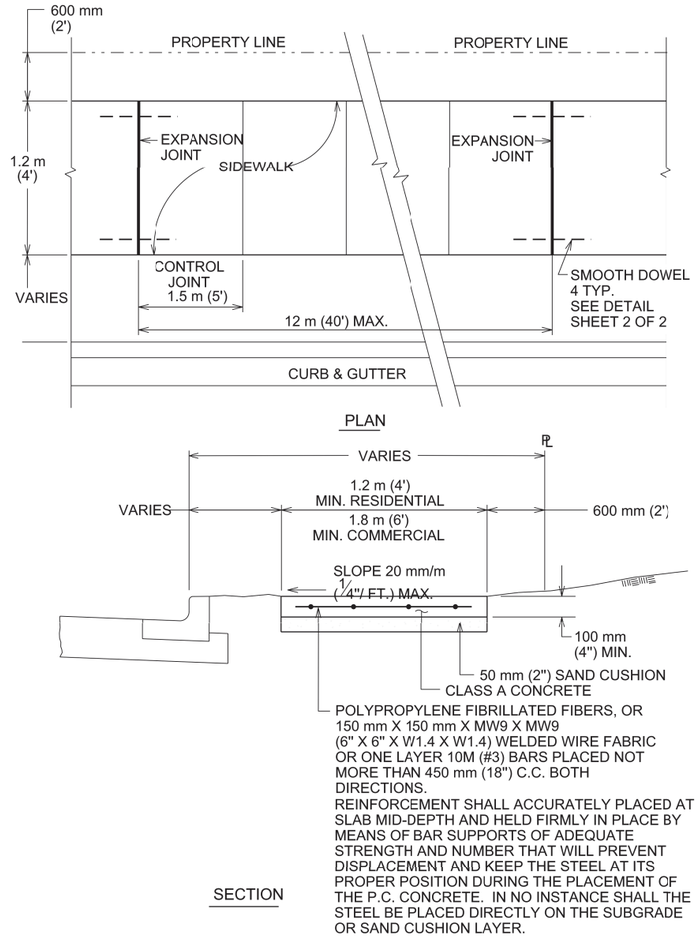
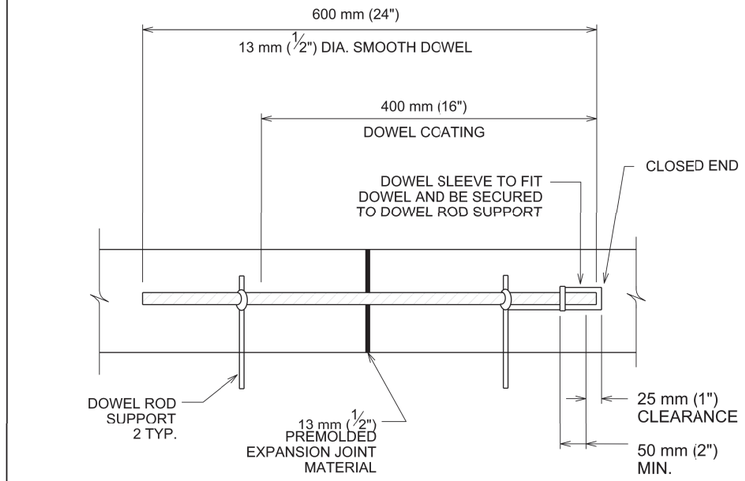


PLAN

SECTION

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SIDEWALK	
RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-1 1 OF 3



DOWEL DETAIL

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SIDEWALK	
RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-1 2 OF 3

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STATE OF TEXAS
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SHEET 99 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				99

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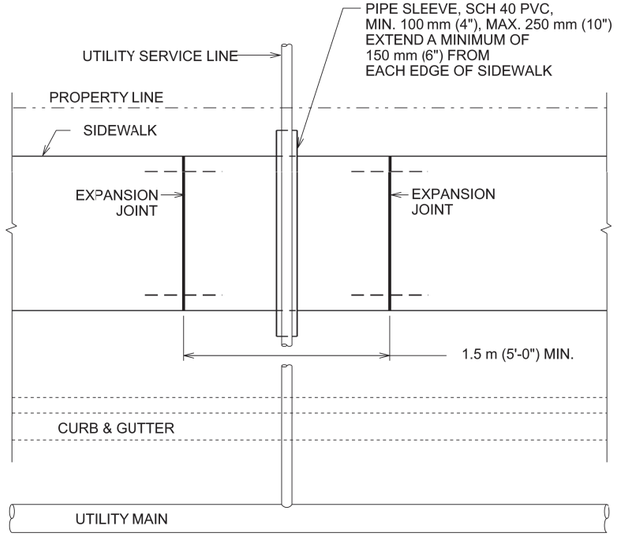
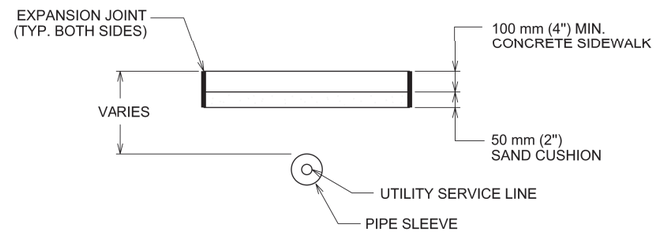


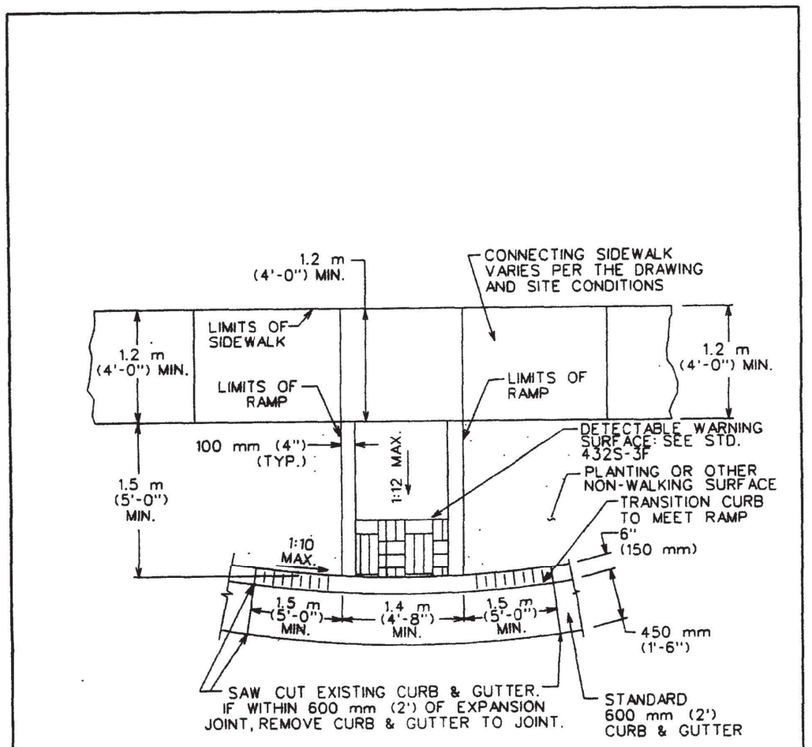
SIDEWALK OVER UTILITY SERVICE LINE PLAN



SECTION OF SIDEWALK OVER
UTILITY SERVICE LINES

NOTES:
1. THIS STANDARD APPLIES TO THE INSTALLATION OF NEW UTILITIES OR UTILITIES BEING REPLACED BY A NEW LINE.
2. NO JOINTS IN UTILITY SERVICE PIPE TO BE LOCATED INSIDE PVC PIPE SLEEVE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SIDEWALK	
RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-1 3 OF 3



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPE 1B SIDEWALK CURB RAMP	
Bill Gardner ADOPTED	9/14/05	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-5B

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SHEET 100 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				100

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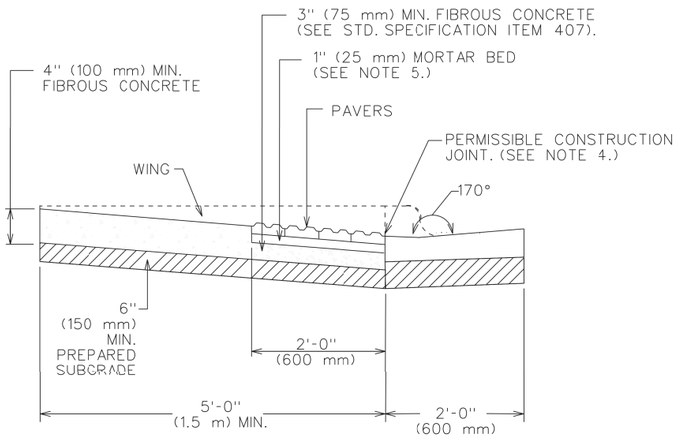
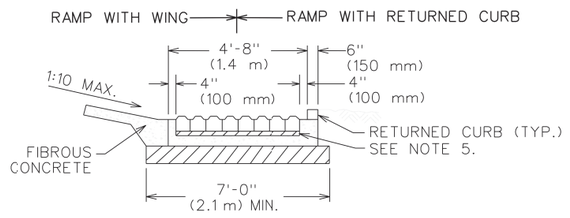


CROSS SECTION



FRONT END VIEW

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		DETECTABLE WARNING-PAVER (CITY PROPERTY/EASEMENTS)	STANDARD NO.
RECORD COPY SIGNED BY BILL GARDNER	*06/21/07* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	432S-2A 1 OF 2

GENERAL NOTES:

1. THIS STANDARD IS APPLICABLE FOR RAMP CONSTRUCTION ON CITY PROPERTY AND EASEMENT AREAS ONLY.
2. PAVERS ARE REQUIRED FOR ALL CURB RAMP INSTALLATIONS.
3. PAVERS WILL HAVE DETECTABLE WARNING THAT CONSISTS OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9" (23 mm), A NOMINAL HEIGHT OF 0.2" (5 mm) AND A NOMINAL CENTER TO CENTER SPACING OF 2.35" (60 mm) AND SHALL CONSTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT (Re: ADAAG SECTION 4.29.2). MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. PAVER PATTERN SHALL BE BASKET WEAVE UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
4. TYPICAL SIDEWALK WIDTHS AND CURB RADII ARE SHOWN FOR ILLUSTRATION ONLY. REFER TO THE TRANSPORTATION CRITERIA MANUAL FOR SIDEWALK WIDTHS, CURB RADII AND CURB BASIS.
5. THE PERMISSIBLE CONSTRUCTION JOINT BETWEEN THE PAVERS AND THE ADJOINING SURFACE SHALL BE LIMITED TO $\frac{1}{4}$" (6 mm) JOINT SIZE. GAPS LARGER THAN $\frac{1}{4}$" (6 mm) MUST BE APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. ALL JOINTS BETWEEN BRICKS AND ADJOINING SURFACE SHALL BE MORTAR FILLED UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
6. MORTAR SHALL CONFORM TO STD. SPECIFICATION ITEM SECTION 403S.3.5, MORTAR AND GROUT. ALL OTHER CONCRETE SHALL CONFORM TO STD. SPECIFICATION ITEM 403S, CONCRETE FOR STRUCTURES, UNLESS OTHERWISE NOTED.
7. CURB RAMPS WITH RETURNED CURB MAY ONLY BE USED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK DIAGONALLY ACROSS THE RAMP.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		DETECTABLE WARNING-PAVER (CITY PROPERTY/EASMENTS)	STANDARD NO.
RECORD COPY SIGNED BY BILL GARDNER	*06/21/07* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	432S-2A 2 OF 2

8.4.17
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SHEET 101 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				101

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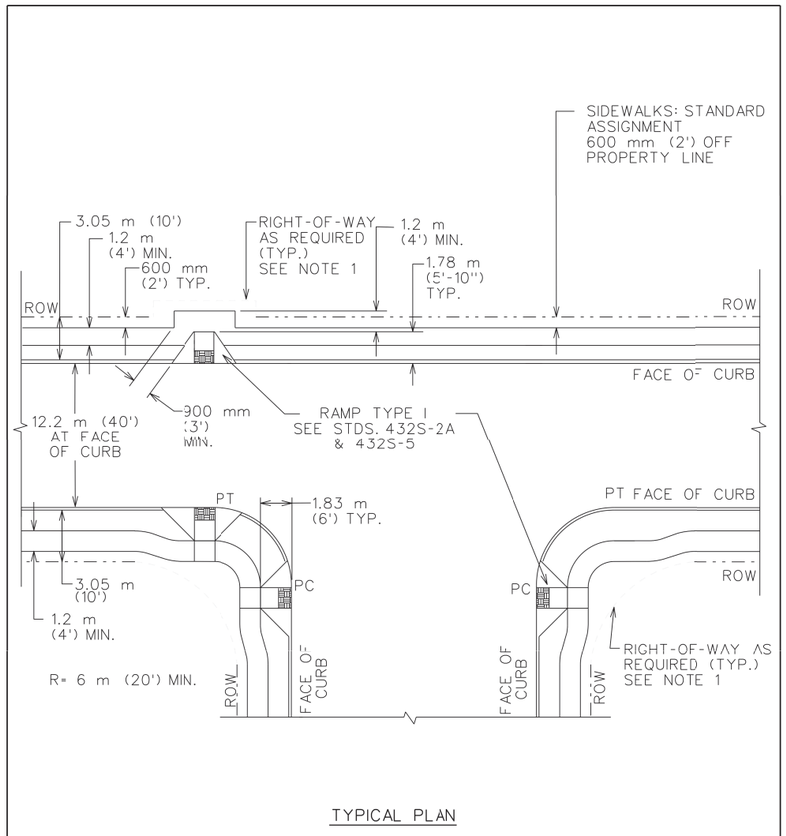

TYPICAL PLAN

GENERAL NOTES:

1. THIS STANDARD IS APPLICABLE FOR RAMP CONSTRUCTION WITHIN RIGHT-OF-WAY OR EASEMENT ONLY.
2. THIS STANDARD REPRESENTS A TYPICAL CURB RAMP DESIGN FOR A NEWLY CONSTRUCTED INTERSECTION WITH A 6 m (20') RADIUS. LARGER RADII, STREET GRADES, LIMITED SIGHT DISTANCES, STREET CLASSIFICATION, SIGNALIZATION AND OTHER FACTORS MAY REQUIRE THE ENGINEER OR DESIGNATED REPRESENTATIVE TO MODIFY THIS STANDARD. SUFFICIENT RIGHT-OF-WAY SHALL BE DEDICATED SUCH THAT THE ENTIRE CURB RAMP, INCLUDING LANDING, AND THE INTER-CONNECTING SIDEWALK ARE CONTAINED WITHIN THE RIGHT-OF-WAY.
3. THE CURB, GUTTER AND RAMP SYSTEM SHALL BE CONFIGURED TO MAINTAIN ALL RUNOFF FROM A 25 YEAR FREQUENCY STORM WITHIN THE RIGHT-OF-WAY (DRAINAGE CRITERIA MANUAL SECTION 1.2.2.B). WHEN THERE IS AN ELEVATION DIFFERENCE BETWEEN THE BOTTOM OF RAMPS (IE. ELEVATION AT THE GUTTER) WITHIN A QUADRANT OF AN INTERSECTION, THE LOWER ELEVATION RAMP SHALL BE CONSTRUCTED WITH A POSITIVE RAMP SLOPE OF 1:12 IN ACCORDANCE WITH STANDARDS 432S-5, 432S-5A AND 432S-5B.
4. STANDARD ASSIGNMENT OF SIDEWALKS IS 600 mm (2') OFF PROPERTY LINE, EXCEPT AS INDICATED ON THE DRAWINGS.
5. ALTHOUGH CURB RAMPS MAY BE PLACED WITHIN THE RADIUS, PLACING THE RAMP OUTSIDE OF THE RADIUS WILL ALLOW FOR THE GREATEST DIFFERENCE IN ELEVATION BETWEEN THE RAMPS.
6. WINGS ARE REQUIRED ONLY IF PEDESTRIANS WOULD NORMALLY CROSS THE RAMP.
7. LANDINGS SHALL BE FLAT AND MATCH PT, PC OR TOP OF CURB ELEVATION.
8. CURB RAMPS WILL BE PERPENDICULAR TO ROADWAY CENTERLINES AND SHALL ALIGN WITH EACH OTHER.
9. GRADES ON SIDEWALKS LEADING TO OR FROM THE RAMPS SHALL FOLLOW CURB GRADES.
10. THE SLOPE OF THE SIDEWALK WHICH IS LOCATED WITHIN THE RADIUS AND CONNECTS TWO CURB RAMPS SHALL NOT EXCEED 1:20. THE DEVELOPER, AS PART OF THE CURB RAMP INSTALLATION, SHALL CONSTRUCT THIS CONNECTING SIDEWALK.
11. STRIPING AND SIGNAGE NOT REQUIRED IN ALL INSTANCES. STOP BARS, IF REQUIRED, SHALL BE LOCATED 1.2 m (4') FROM CROSSWALK.
12. IF A MEDIAN EXTENDS INTO THE CROSSWALK AREA, AN OPENING SHALL BE PROVIDED IN THE MEDIAN THE SAME WIDTH AS THE CURB RAMP.
13. CURB INLETS SHALL NOT BE LOCATED WITHIN 3.0 m (10') OF A CURB RAMP.
14. GUTTER SHALL PROVIDE SMOOTH TRANSITION TO RAMPS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPE 1 CURB RAMPS - "T" INTERSECTION	
RECORD COPY SIGNED BY BILL GARDNER	*03/13/06* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-3A 1 OF 2

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPE 1 CURB RAMPS - "T" INTERSECTION	
RECORD COPY SIGNED BY BILL GARDNER	*03/13/06* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-3A 2 OF 2

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6	TEXAS	104023–10006	_	14	WILLIAMSON				102

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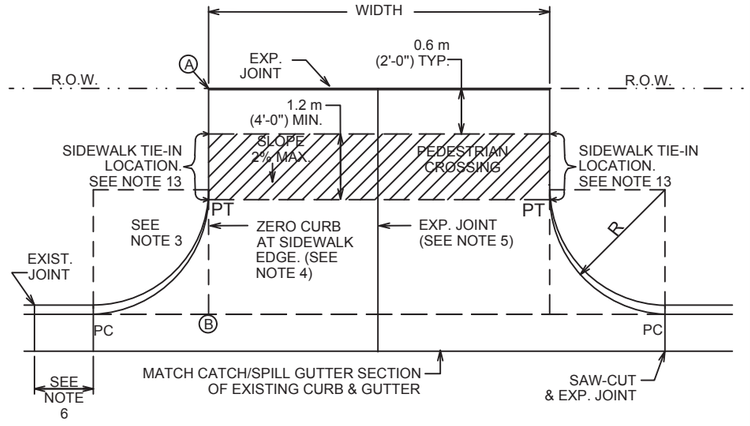
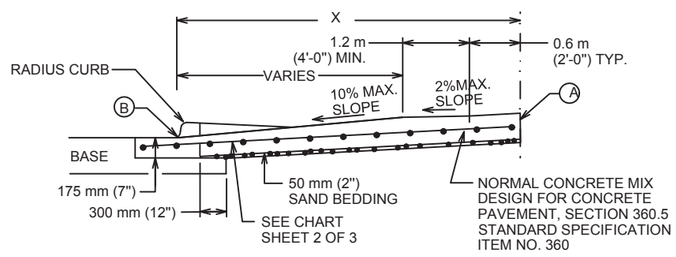


PLAN

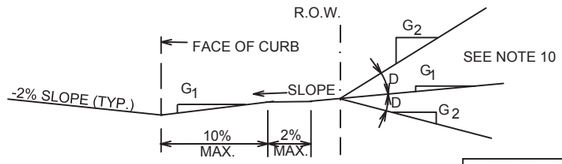
NOTE: ALL DRIVEWAYS SHALL BE SLOPED TOWARDS THE STREET FROM THE R.O.W. LINE. ELEVATION OF POINT (A) ABOVE POINT (B) IS, TYPICALLY A MINIMUM OF 150 mm (6") PLUS 20 mm/m ($\frac{1}{4}$" RISE/FOOT) OVER DISTANCE "X" IN METERS (FEET).



CROSS SECTION

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPE II DRIVEWAY	
RECORD COPY SIGNED BY CUONG TRAN	*02/24/10* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 433S-2 1 OF 2

USE	THICKNESS	REINFORCEMENT
DRIVEWAYS FOR PASSENGER VEHICLE PARKING LOTS	150 mm (6") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF13M (#4) BARS PLACED ON CHAIRS AT MIDDEPTH OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS
ALL OTHERS	175 mm (7") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF13M (#4) BARS PLACED ON CHAIRS AT MIDDEPTH OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS



ALLOWABLE GRADES

DRIVEWAY VOLUME (ADT)	D=GRADE CHANGE	
	STD.	MAX
>1500	0%	3%
500-1500	3%	6%
< 500	6%	15%

NOTES:

1. ALL TYPE II DRIVEWAYS SHALL HAVE RADIUS ENDS.
2. DRIVEWAY WIDTHS AND RADII DIMENSIONS, ONE/TWO WAY TRAVEL REQUIREMENTS, AND GEOMETRIC LAY-OUT ARE HIGHLY VARIABLE, SUBJECT TO SITE SPECIFIC CONDITIONS AND REQUIREMENTS. SEE TRANSPORTATION CRITERIA MANUAL. SECTION 5 "DRIVEWAYS".
3. THE DRIVEWAY EDGE SHALL BE SMOOTHLY TRANSITITIONED INTO THE SIDEWALK TIE-IN LOCATION BEGINNING AT THE RADIUS PC LINE.
4. "ZERO" CURB AT PT OR SIDEWALK EDGE, WHICHEVER IS ENCOUNTERED FIRST.
5. PLACE AN EXPANSION JOINT DOWN THE CENTER OF DRIVEWAY ALL DRIVEWAYS.
6. IF DIMENSION IS LESS THAN 1.5 METERS (5 FEET), REMOVE CURB AND GUTTER TO EXISTING JOINT AND POUR MONOLITHICALLY WITH DRIVEWAY.
7. IF THE BASE IS OVER-EXCAVATED WHERE THE CURB AND GUTTER WERE REMOVED, BACKFILL WITH CONCRETE MONOLITHICALLY WITH THE DRIVEWAY.
8. TYPE II DRIVEWAYS ARE TO BE LOCATED NO CLOSER TO THE CORNER OF INTERSECTING RIGHT OF WAY THAN 60% OF PARCEL FRONTAGE AT 30 METERS (100 FEET): WHICHEVER IS LESS.
9. DRIVEWAY SHALL NOT BE CONSTRUCTED WITHIN THE CURB RETURN OF A STREET INTERSECTION.
10. WHILE THE PROPERTY OWNER REMAINS RESPONSIBLE FOR GRADE BREAKS WITHIN PRIVATE PROPERTY, THE FIRE DEPARTMENT SHALL BE CONSULTED WHERE THE DRIVEWAY IS ESSENTIAL TO EMERGENCY VEHICLE ACCESS AND "G2 IS GREATER THAN 15%.
11. USE 12 MM (1/2") ASPHALT BOARD OR OTHER APPROVED MATERIAL FOR CURB AND GUTTER EXPANSION JOINTS. SIDEWALK, AT THE R.O.W. LINE AND AT MIDWIDTH, SEE NOTE 5.
12. SEE TRANSPORTATION CRITERIA MANUAL, SECTION 5 FOR OTHER DRIVEWAY REQUIREMENTS.
13. THE SIDEWALK, REGARDLESS OF ITS LOCATION WITH RESPECT TO THE CURB OR PROPERTY LINE, SHALL BE CONNECTED TO THE DRIVEWAY AT THESE LOCATIONS.
14. WATER METER BOXES AND WASTEWATER CLEAN OUTS ARE PROHIBITED FROM BEING LOCATED IN DRIVEWAY AREAS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPE II DRIVEWAY	
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8.4.17
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SHEET 103 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				103

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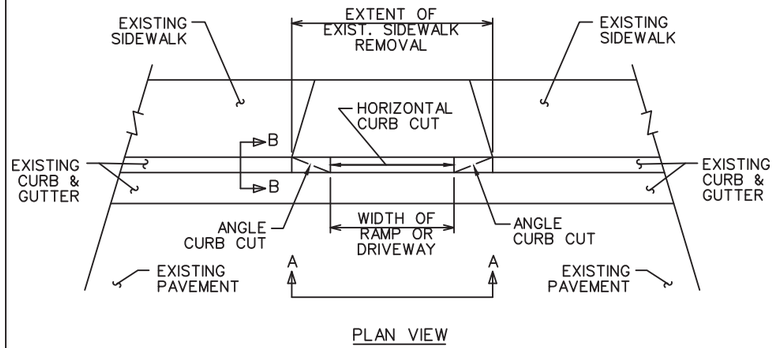
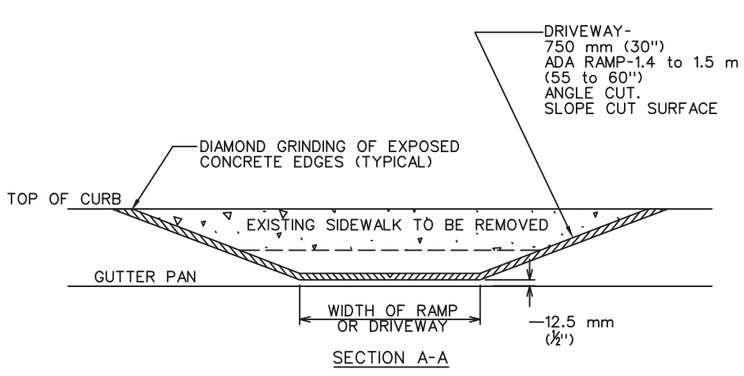
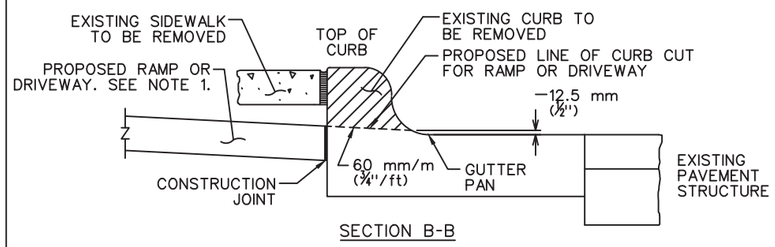


PLAN VIEW



SECTION A-A

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		CURB CUT FOR RAMP OR DRIVEWAY (OPTIONAL)	STANDARD NO.
RECORD COPY SIGNED BY BILL GARDNER	*03/26/08*	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	470S-1
ADOPTED			1 OF 2



SECTION B-B

NOTES:

1. SEE RAMP STANDARDS 432S-5, 432S-5A AND 532S-5B OR DRIVEWAY STANDARDS 433S-1, 433S-1A AND 433S-2.
2. THIS METHOD CANNOT BE USED IF THE EXISTING CURB AND GUTTER ARE CRACKED. REMOVAL OF THE ENTIRE CURB AND GUTTER IS REQUIRED IN THOSE CASES. (SEE STANDARDS 432S AND 433S SERIES.)
3. CURB CUTS SHOULD NOT EXCEED 9 m (30') FROM WING TIPS.
4. CURB CUTS MAY ONLY BE USED WITH TYPE 1, FLARED DRIVEWAYS, SEE STANDARD 433S-1A.
5. IF CURB CUT IS FOUND NOT STANDARD, ENTIRE CURB AND GUTTER MUST BE REMOVED TO THE NEXT NEAREST JOINT.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		CURB CUT FOR RAMP OR DRIVEWAY (OPTIONAL)	STANDARD NO.
RECORD COPY SIGNED BY BILL GARDNER	*03/26/08*	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	470S-1
ADOPTED			2 OF 2

8.4.17
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PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

Stantec
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Austin, Texas 78701
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TBPE # F-6324 TBPLS # F-10194230
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PAVING DETAILS 7

SHEET 104 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				104

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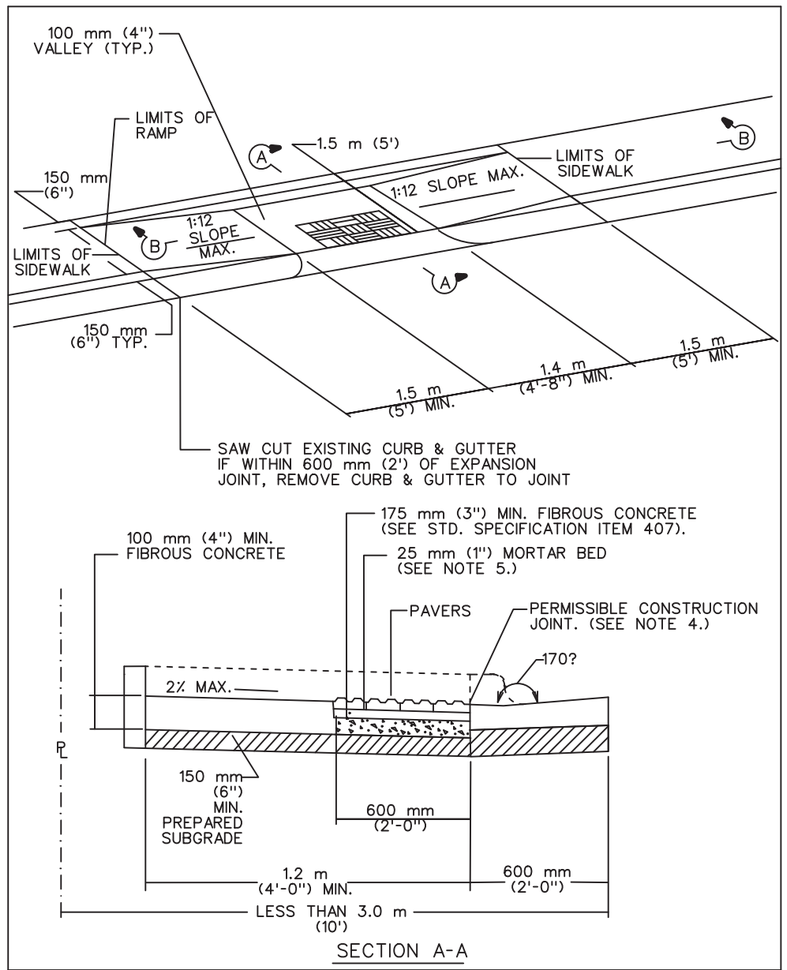
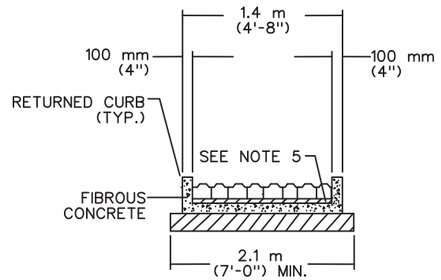


SECTION A-A

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		COMBINED SIDEWALK CURB RAMP WITH PAVERS WITHIN LIMITED ROW ONLY	
RECORD COPY SIGNED BY BILL GARDNER	*06/21/07* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-3G 1 OF 2



SECTION B-B

GENERAL NOTES:

1. THIS STANDARD IS APPLICABLE FOR RAMP CONSTRUCTION WITHIN RIGHT-OF-WAY OR EASEMENT ONLY.
2. PAVERS WILL HAVE DETECTABLE WARNING THAT CONSISTS OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 23 mm (0.9"), A NOMINAL HEIGHT OF 5 mm (0.2") AND A NOMINAL CENTER TO CENTER SPACING OF 60 mm (2.35") AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT (Re: ADAAG SECTION 4.29.2). MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. A BASKET WEAVE PAVER PATTERN SHALL BE USED UNLESS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. PAVER PATTERN VARIES PER MANUFACTURER'S RECOMMENDATIONS. REFER TO STANDARD DETAIL 432S-5 FOR PAVER BASE PREPARATION DETAILS.
3. THE CURB, GUTTER AND RAMP SYSTEM SHALL BE CONFIGURED TO MAINTAIN ALL RUNOFF FROM A 25 YEAR FREQUENCY STORM WITHIN THE RIGHT-OF-WAY (DRAINAGE CRITERIA MANUAL SECTION 1.2.2.B).
4. TYPICAL SIDEWALK WIDTHS AND CURB RADII ARE SHOWN FOR ILLUSTRATION ONLY. REFER TO THE TRANSPORTATION CRITERIA MANUAL FOR SIDEWALK WIDTHS, CURB RADII AND CURB BASIC REQUIREMENTS.
5. THE PERMISSIBLE CONSTRUCTION JOINT BETWEEN THE PAVERS AND THE ADJOINING SURFACE SHALL BE LIMITED TO 6 mm (¼") JOINT SIZE. GAPS LARGER THAN 6 mm (¼") MUST BE APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. ALL JOINTS BETWEEN BRICKS AND ADJOINING SURFACE SHALL BE MORTAR FILLED UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
6. MORTAR SHALL CONFORM TO STD. SPECIFICATION ITEM SECTION 403S.3.5, MORTAR AND GROUT. ALL OTHER CONCRETE SHALL CONFORM TO STD. SPECIFICATION ITEM 403S, CONCRETE FOR STRUCTURES, UNLESS OTHERWISE NOTED.
7. CURB RAMPS WITH 100 mm (4") CONCRETE VALLEY MAY ONLY BE USED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK DIAGONALLY ACROSS THE RAMP.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		COMBINED SIDEWALK CURB RAMP WITH PAVERS WITHIN LIMITED ROW ONLY	
RECORD COPY SIGNED BY BILL GARDNER	*06/21/07* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-3G 2 OF 2

8-4-17
STATE OF TEXAS
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PAVING DETAILS 8

SHEET 105 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				105

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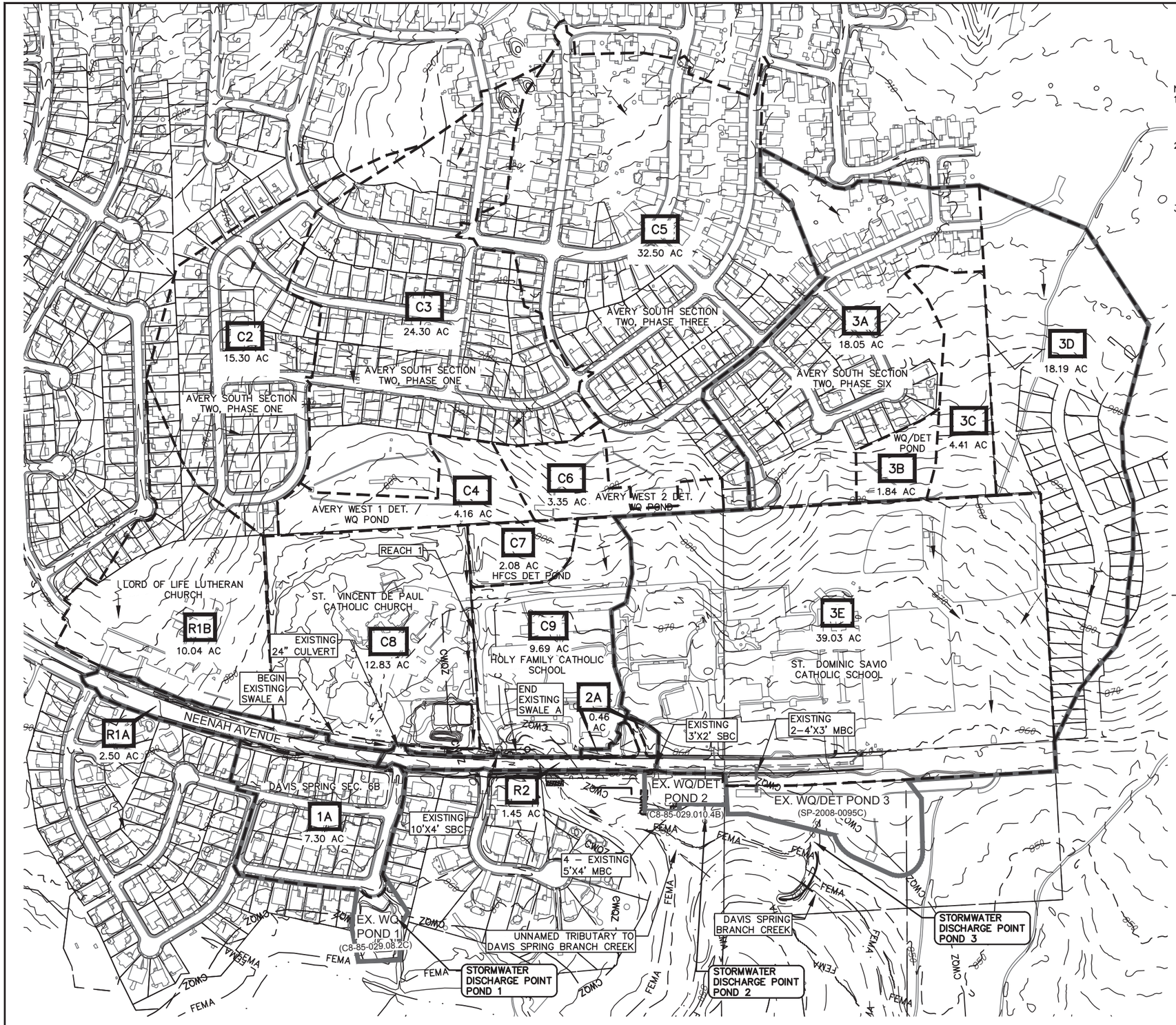

400 0 200 400

1" = 400

NOTES:

1. DRAINAGE AREAS NAMES BEGINNING WITH A NUMBER REFER TO THE EXISTING NEENAH POND NUMBER TO WHICH THEY DRAIN. DRAINAGE AREAS BEGINNING WITH A "C" DRAIN TO THE EXISTING 4-5'X4' MBC CROSSING NEENAH AVENUE. DRAINAGE AREAS BEGINNING WITH A "R" DRAIN TO NEENAH AVENUE.
2. EXISTING WATER QUALITY POND 1 AND EXISTING WATER QUALITY/DETENTION POND 3 PROVIDE ADEQUATE WATER QUALITY CONTROL FOR THE INCREASE IN IMPERVIOUS COVER ASSOCIATED WITH THE PROPOSED WIDENING OF NEENAH AVENUE. AS A RESULT, THERE ARE NO PLANNED IMPROVEMENTS FOR EXISTING WQ POND 1 OR EXISTING WQ/DETENTION POND 3. FOR ADDITIONAL DRAINAGE AND WATER QUALITY DETAILS, PLEASE REFER TO THE BURY DRAINAGE REPORT SUBMITTED WITH THESE PLANS.
3. DRAINAGE AREAS WERE TAKEN FROM RECORD DRAWINGS FROM THE FOLLOWING PLAN SETS:
   A. DAVIS SPRING SECTION 6B STREET AND DRAINAGE WATER AND WASTEWATER IMPROVEMENTS (C8-85-029.08.2C)
   B. DAVIS SPRING SECTION 5D-OFF-SITE NEENAH AVENUE EXTENSION (C8-85-029.010.4B)
   C. NEW CATHOLIC HIGH SCHOOL ST. DOMINIC SAVIO CATHOLIC SCHOOL (SP-2008-0095C)
   D. NEENAH AVENUE EXTENSION PAVING DRAINAGE AND WATER IMPROVEMENTS (C8J-2008-0065.0B)
   E. SITE DEVELOPMENT IMPROVEMENTS FOR ST VINCENT DE PAUL CATHOLIC CHURCH PARKING EXPANSION AND WATER QUALITY AND DETENTION TRANSFER PLANS (SP-2008-0522D)
   F. ST VINCENT DE PAUL (SP-2010-0315C)
   G. HOLY FAMILY CATHOLIC SCHOOL (SP-00-2214C)
   H. LORD OF LIFE LUTHERAN CHURCH (SP-00-2511C)
   I. PAVING, DRAINAGE, WATER & WASTEWATER IMPROVEMENTS FOR AVERY SOUTH SECTION TWO, PHASE ONE (C8J-02-0189.2A)
   J. PAVING, DRAINAGE, WATER & WASTEWATER IMPROVEMENTS FOR AVERY SOUTH SECTION TWO, PHASE THREE (C8J-02-0189.01.2B)
   K. PAVING, DRAINAGE, WATER & WASTEWATER IMPROVEMENTS FOR AVERY SOUTH SECTION TWO, PHASE SIX (C8J-02-0189.01.5B)
   L. PAVING, DRAINAGE, WATER & WASTEWATER IMPROVEMENTS FOR NEENAH AVE. EXTENSION PEARSON PLACE, C8J-2008-0056.3B

LEGEND

- R2 — DRAINAGE AREA ID
- DRAINAGE AREA BOUNDARY
- DRAINAGE AREA TO POND
- CREEK CL
- DITCH/CHANNEL FLOW
- FLOW ARROW
- FEMA — FEMA 100YR FLOODPLAIN
- CWQZ — CRITICAL WATER QUALITY ZONE
- STORMWATER DISCHARGE POINT — STORMWATER DISCHARGE POINT

8-4-17
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OVERALL EXISTING DRAINAGE AREA MAP

SHEET 106 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				106

SP-2016-0186D

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EXISTING DRAINAGE SUMMARY

Outfall	Drainage Area ID	Area (ac)	Imp. Cover (%)	CN	Tc (mins)	Tlag (mins)	Peak Flow (cfs)			
							2	10	25	100
EX. 4-5'X4' MBC	C2	15.30	48.6	80.0	15.0	9.0	30.3	59.6	76.6	104.9
	C3	24.30	48.6	80.0	15.0	9.0	48.1	94.6	121.7	166.6
	C4	4.16	0.0	80.0	5.0	3.0	8.0	17.9	23.6	33.1
	C5	32.50	49.6	80.0	15.0	9.0	64.6	126.8	163.0	223.1
	C6	3.35	0.0	80.0	5.0	3.0	6.5	14.4	19.0	26.7
	C7	2.08	0.0	80.0	5.0	3.0	2.8	6.2	8.2	11.6
	C8	12.83	51.0	80.0	13.3	8.0	29.1	54.1	68.6	92.7
	C9	9.69	28.2	80.0	20.0	12.0	19.8	36.6	46.3	62.3
EX. WQD POND 1	1A	7.30	46.5	80.0	10.0	6.0	14.0	28.6	37.3	51.7
	R1A*	2.50	72.0	80.0	11.5	6.9	6.5	10.8	13.8	19.7
	R1B**	10.04	45.0	80.0	12.6	7.6	20.3	39.6	51.0	70.1
EX. WQD POND 2	R2*	1.45	97.0	80.0	13.5	8.1	4.2	7.0	8.9	12.6
	2A*	0.46	4.0	80.0	13.9	8.3	0.4	0.8	1.1	1.7
EX. WQD POND 3	3A	18.05	47.2	80.0	20.3	12.2	35.6	66.7	84.7	114.6
	3B	1.84	0.0	80.0	5.0	3.0	3.5	7.6	10.1	14.2
	3C	4.41	0.0	80.0	21.0	12.6	6.2	13.5	17.9	25.2
	3D	18.19	60.0	80.0	6.6	4.0	48.7	89.1	112.5	151.2
	3E	39.03	50.63	80.0	18.0	10.8	88.6	164.9	209.0	282.1

* Onsite Drainage Areas. Calculations based on Rational Method

**Existing Offsite Drainage Area drains to Neenah Ave. Proposed rerout of runoff to Swale A.

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EXISTING DRAINAGE AREA CALCULATIONS

SHEET 107 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				107

SP-2016-0186D

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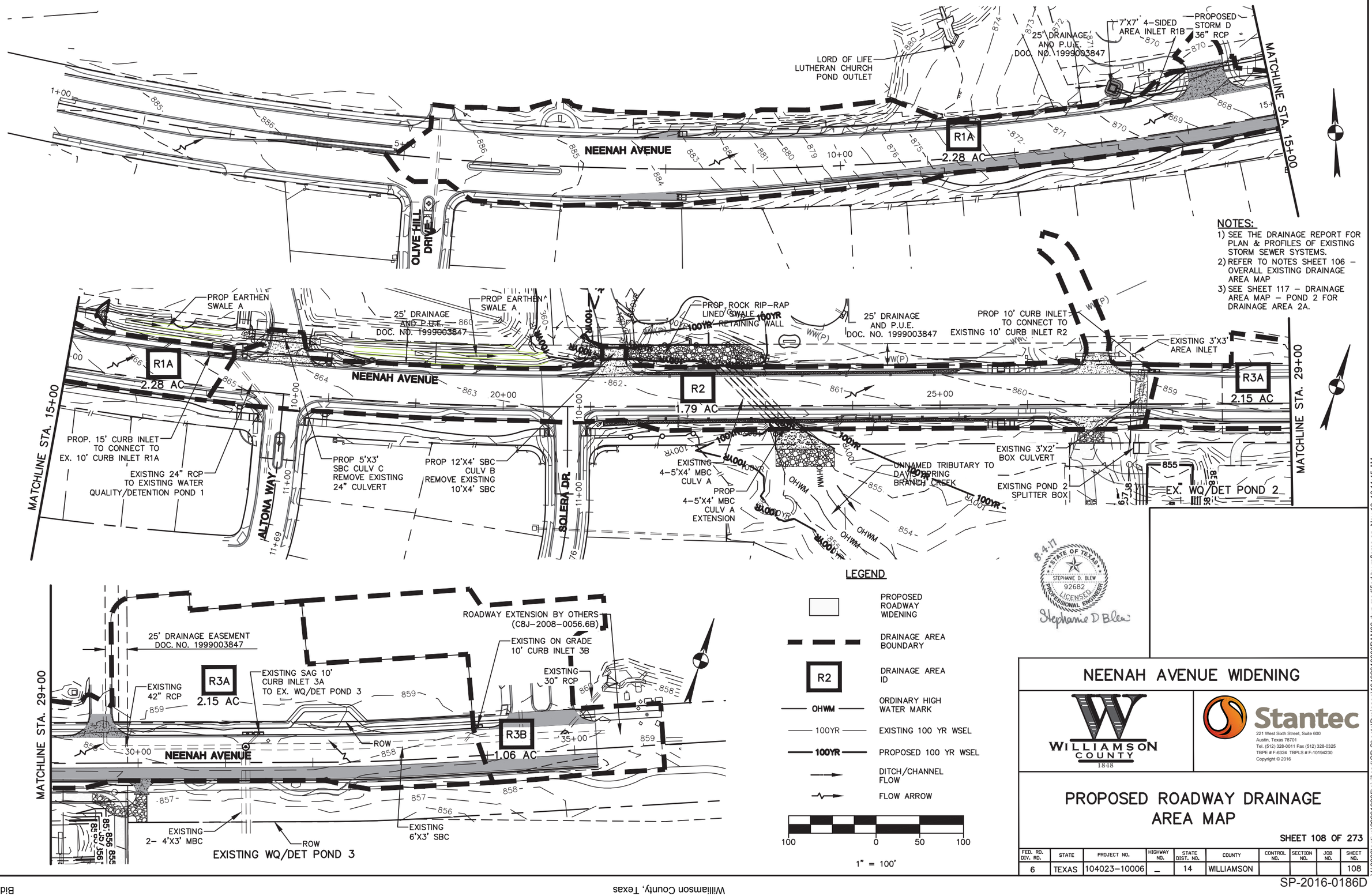

NOTES:

1) SEE THE DRAINAGE REPORT FOR PLAN & PROFILES OF EXISTING STORM SEWER SYSTEMS.
2) REFER TO NOTES SHEET 106 – OVERALL EXISTING DRAINAGE AREA MAP
3) SEE SHEET 117 – DRAINAGE AREA MAP – POND 2 FOR DRAINAGE AREA 2A.

LEGEND

- PROPOSED ROADWAY WIDENING
- DRAINAGE AREA BOUNDARY
- R2 — DRAINAGE AREA ID
- OHWM — ORDINARY HIGH WATER MARK
- 100YR — EXISTING 100 YR WSEL
- 100YR — PROPOSED 100 YR WSEL
- DITCH/CHANNEL FLOW
- FLOW ARROW

100 0 50 100

1" = 100'

8-4-17

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PROPOSED ROADWAY DRAINAGE AREA MAP

SHEET 108 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				108

SP-2016-0186D

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Neenah Avenue - Existing Conditions

Roadway Drainage - Rational Method Calculations

STORM FREQUENCY	a	b	c	i=a/(t+b)^c
2	54.767	11.051	0.8116	Q=CiA
10	70.82	10.396	0.7725	
25	82.936	10.746	0.7634	Legend
100	118.3	13.185	0.7736	

City of Austin **Date : 8/3/2015** **Project No. 104023-10006**

R1A

AREA				R1A
Event	2-yr	10-yr	25-yr	100-yr
Acres	2.50	2.50	2.50	2.50
C	0.59	0.65	0.70	0.79
Tc	11.46	11.46	11.46	11.46
I	4.37	6.54	7.78	9.91
Q	**6.41**	**10.70**	**13.65**	**19.50**

Acres			2	10	25	100
Area	**%**					
0.00	**0**	Pasture 2-7%	0.33	0.38	0.42	0.49
0.69	**28**	Grass	0.21	0.25	0.29	0.36
0.00	**0**	Concrete	0.75	0.83	0.88	0.97
1.81	**72**	Asphalt	0.73	0.81	0.86	0.95
	100					

	SHEET Unpaved	SHEET Paved	SHALLOW CON Unpaved	SHALLOW CON Paved	CHANNEL	
	0.007(nL)0.8/($P_2^{0.5}s^{0.4}$)	**Ln/42(s)^0.5**	**L/(60*16.1345*$s^{0.5}$)**	**L/(60*20.3282*$s^{0.5}$)**	**Dist/velocity**	**Sum**
Length	**28**	**72**	**0**	**1100 Length**	**0**	
n	0.15	0.016	**0.2**	0.016		
Slope(s)=e/l	0.0100	0.0200	0.0100	0.0190 Velocity	6	
Tc	4.50	0.42	0.00	6.54	0.00	11.46

R2

AREA				R2
Event	2-yr	10-yr	25-yr	100-yr
Acres	1.45	1.45	1.45	1.45
C	0.71	0.79	0.84	0.93
Tc	13.49	13.49	13.49	13.49
I	4.08	6.10	7.28	9.33
Q	**4.22**	**7.01**	**8.88**	**12.59**

Acres			2	10	25	100
Area	**%**					
0.00	**0**	Pasture 2-7%	0.33	0.38	0.42	0.49
0.05	**3**	Grass	0.21	0.25	0.29	0.36
0.00	**0**	Concrete	0.75	0.83	0.88	0.97
1.40	**97**	Asphalt	0.73	0.81	0.86	0.95
	100					

	SHEET Unpaved	SHEET Paved	SHALLOW CON Unpaved	SHALLOW CON Paved	CHANNEL	
	0.007(nL)0.8/($P_2^{0.5}s^{0.4}$)	**Ln/42(s)^0.5**	**L/(60*16.1345*$s^{0.5}$)**	**L/(60*20.3282*$s^{0.5}$)**	**Dist/velocity**	**Sum**
Length	**10**	**0**	**0**	**1100 Length**	**0**	
n	0.15	0.016	0.2	0.016		
Slope(s)=e/l	0.0300	0.0055	0.0055	0.0055 Velocity	6	
Tc	1.27	0.00	0.00	12.22	0.00	13.49

2A*

AREA				2A
Event	2-yr	10-yr	25-yr	100-yr
Acres	0.46	0.46	0.46	0.46
C	0.23	0.27	0.31	0.39
Tc	13.90	13.90	13.90	13.90
I	4.02	6.02	7.18	9.22
Q	**0.43**	**0.76**	**1.04**	**1.64**

*Drainage Area bypasses Neenah Ave. Stormsewer Collection System

Acres			2	10	25	100
Area	**%**					
0.00	**0**	Pasture 2-7%	0.33	0.38	0.42	0.49
0.44	**96**	Grass	0.21	0.25	0.29	0.36
0.02	**4**	Concrete	0.75	0.83	0.88	0.97
0.00	**0**	Asphalt	0.73	0.81	0.86	0.95
	100					

	SHEET Unpaved	SHEET Paved	SHALLOW CON Unpaved	SHALLOW CON Paved	CHANNEL	
	0.007(nL)0.8/($P_2^{0.5}s^{0.4}$)	**Ln/42(s)^0.5**	**L/(60*16.1345*$s^{0.5}$)**	**L/(60*20.3282*$s^{0.5}$)**	**Dist/velocity**	**Sum**
Length	**100**	**90**	**75**	**0 Length**	**50**	
n	0.15	0.016	0.2	0.016		
Slope(s)=e/l	0.0100	0.0200	0.0100	0.0400 Velocity	6	
Tc	12.47	0.52	0.77	0.00	0.14	13.90

R3A

AREA				R3A
Event	2-yr	10-yr	25-yr	100-yr
Acres	2.25	2.25	2.25	2.25
C	0.40	0.45	0.49	0.57
Tc	9.18	9.18	9.18	9.18
I	4.77	7.12	8.45	10.69
Q	**4.24**	**7.20**	**9.38**	**13.72**

Acres			2	10	25	100
Area	**%**					
0.00	**0**	Pasture 2-7%	0.33	0.38	0.42	0.49
1.45	**64**	Grass	0.21	0.25	0.29	0.36
0.00	**0**	Concrete	0.75	0.83	0.88	0.97
0.80	**36**	Asphalt	0.73	0.81	0.86	0.95
	100					

	SHEET Unpaved	SHEET Paved	SHALLOW CON Unpaved	SHALLOW CON Paved	CHANNEL	
	0.007(nL)0.8/($P_2^{0.5}s^{0.4}$)	**Ln/42(s)^0.5**	**L/(60*16.1345*$s^{0.5}$)**	**L/(60*20.3282*$s^{0.5}$)**	**Dist/velocity**	**Sum**
Length	**100**	**0**	**60**	**150 Length**	**0**	
n	0.15	0.016	0.2	0.016		
Slope(s)=e/l	0.0400	0.0050	0.0500	0.0050 Velocity	6	
Tc	7.16	0.00	0.28	1.74	0.00	9.18

R3B

AREA				R3B
Event	2-yr	10-yr	25-yr	100-yr
Acres	1.06	1.06	1.06	1.06
C	0.59	0.61	0.63	0.66
Tc	11.15	11.15	11.15	11.15
I	4.42	6.61	7.86	10.01
Q	**2.75**	**4.25**	**5.22**	**7.01**

Acres			2	10	25	100
Area	**%**					
0.00	**0**	Pasture 2-7%	0.33	0.38	0.42	0.49
0.52	**49**	Grass	0.21	0.25	0.29	0.36
0.00	**0**	Concrete	0.97	0.97	0.97	0.97
0.54	**51**	Asphalt	0.95	0.95	0.95	0.95
	100					

	SHEET Unpaved	SHEET Paved	SHALLOW CON Unpaved	SHALLOW CON Paved	CHANNEL	
	0.007(nL)0.8/($P_2^{0.5}s^{0.4}$)	**Ln/42(s)^0.5**	**L/(60*16.1345*$s^{0.5}$)**	**L/(60*20.3282*$s^{0.5}$)**	**Dist/velocity**	**Sum**
Length	**100**	**0**	**0**	**294 Length**	**0**	
n	0.15	0.016	0.2	0.016		
Slope(s)=e/l	0.0200	0.0200	0.0100	0.0200 Velocity	6	
Tc	9.45	0.00	0.00	1.70	0.00	11.15

Neenah Avenue - Proposed Conditions

Roadway Drainage - Rational Method Calculations

STORM FREQUENCY	a	b	c	i=a/(t+b)^c
2	54.767	11.051	0.8116	Q=CiA
10	70.82	10.396	0.7725	
25	82.936	10.746	0.7634	Legend
100	118.3	13.185	0.7736	

City of Austin **Date : 8/3/2015** **Project No. 104023-10006**

R1A

AREA				R1A
Event	2-yr	10-yr	25-yr	100-yr
Acres	2.28	2.28	2.28	2.28
C	0.60	0.67	0.72	0.80
Tc	11.30	11.30	11.30	11.30
I	4.40	6.57	7.82	9.97
Q	**6.02**	**10.05**	**12.80**	**18.24**

Acres			2	10	25	100
Area	**%**					
0.00	**0**	Pasture 2-7%	0.33	0.38	0.42	0.49
0.57	**25**	Grass	0.21	0.25	0.29	0.36
0.00	**0**	Concrete	0.75	0.83	0.88	0.97
1.71	**75**	Asphalt	0.73	0.81	0.86	0.95
	100					

	SHEET Unpaved	SHEET Paved	SHALLOW CONCENTRATED Unpaved	SHALLOW CONCENTRATED Paved	CHANNEL	
	0.007(nL)0.8/($P_2^{0.5}s^{0.4}$)	**Ln/42(s)^0.5**	**L/(60*16.1345*$s^{0.5}$)**	**L/(60*20.3282*$s^{0.5}$)**	**Dist/velocity**	**Sum**
Length	**28**	**72**	**0**	**1100 Length**	**0**	
n	0.15	0.016	**0.2**	0.016		
Slope(s)=e/l	0.0100	0.0200	0.0100	0.0200 Velocity	6	
Tc	4.50	0.42	0.00	6.38	0.00	11.30

R2

AREA				R2
Event	2-yr	10-yr	25-yr	100-yr
Acres	1.79	1.79	1.79	1.79
C	0.72	0.80	0.85	0.93
Tc	13.41	13.41	13.41	13.41
I	4.09	6.12	7.29	9.35
Q	**5.24**	**8.71**	**11.03**	**15.64**

Acres			2	10	25	100
Area	**%**					
0.00	**0**	Pasture 2-7%	0.33	0.38	0.42	0.49
0.05	**3**	Grass	0.21	0.25	0.29	0.36
0.00	**0**	Concrete	0.75	0.83	0.88	0.97
1.74	**97**	Asphalt	0.73	0.81	0.86	0.95
	100					

	SHEET Unpaved	SHEET Paved	SHALLOW CONCENTRATED Unpaved	SHALLOW CONCENTRATED Paved	CHANNEL	
	0.007(nL)0.8/($P_2^{0.5}s^{0.4}$)	**Ln/42(s)^0.5**	**L/(60*16.1345*$s^{0.5}$)**	**L/(60*20.3282*$s^{0.5}$)**	**Dist/velocity**	**Sum**
Length	**10**	**90**	**0**	**1100 Length**	**0**	
n	0.02	0.016	0.2	0.016		
Slope(s)=e/l	0.0300	0.0055	0.0100	0.0055 Velocity	6	
Tc	0.20	0.99	0.00	12.22	0.00	13.41

2A

AREA				2A
Event	2-yr	10-yr	25-yr	100-yr
Acres	0.57	0.57	0.57	0.57
C	0.25	0.29	0.33	0.40
Tc	13.38	13.38	13.38	13.38
I	4.09	6.12	7.30	9.36
Q	**0.58**	**1.01**	**1.37**	**2.14**

*Drainage Area bypasses Neenah Ave. Stormsewer Collection System. See Sheet 106 Drainage Area Map - Pond 2

Acres			2	10	25	100
Area	**%**					
0.00	**0**	Pasture 2-7%	0.33	0.38	0.42	0.49
0.53	**93**	Grass	0.21	0.25	0.29	0.36
0.00	**0**	Concrete	0.75	0.83	0.88	0.97
0.04	**7**	Asphalt	0.73	0.81	0.86	0.95
	100					

	SHEET Unpaved	SHEET Paved	SHALLOW CONCENTRATED Unpaved	SHALLOW CONCENTRATED Paved	CHANNEL	
	0.007(nL)0.8/($P_2^{0.5}s^{0.4}$)	**Ln/42(s)^0.5**	**L/(60*16.1345*$s^{0.5}$)**	**L/(60*20.3282*$s^{0.5}$)**	**Dist/velocity**	**Sum**
Length	**100**	**0**	**75**	**0 Length**	**50**	
n	0.15	0.016	0.2	0.016		
Slope(s)=e/l	0.0100	0.0200	0.0100	0.0400 Velocity	6	
Tc	12.47	0.00	0.77	0.00	0.14	13.38

R3A

AREA				R3A
Event	2-yr	10-yr	25-yr	100-yr
Acres	2.15	2.15	2.15	2.15
C	0.51	0.57	0.62	0.70
Tc	9.18	9.18	9.18	9.18
I	4.77	7.12	8.45	10.69
Q	**5.22**	**8.75**	**11.22**	**16.07**

Acres			2	10	25	100
Area	**%**					
0.00	**0**	Pasture 2-7%	0.33	0.38	0.42	0.49
0.92	**43**	Grass	0.21	0.25	0.29	0.36
0.00	**0**	Concrete	0.75	0.83	0.88	0.97
1.23	**57**	Asphalt	0.73	0.81	0.86	0.95
	100					

	SHEET Unpaved	SHEET Paved	SHALLOW CONCENTRATED Unpaved	SHALLOW CONCENTRATED Paved	CHANNEL	
	0.007(nL)0.8/($P_2^{0.5}s^{0.4}$)	**Ln/42(s)^0.5**	**L/(60*16.1345*$s^{0.5}$)**	**L/(60*20.3282*$s^{0.5}$)**	**Dist/velocity**	**Sum**
Length	**100**	**0**	**60**	**150 Length**	**0**	
n	0.15	0.016	0.2	0.016		
Slope(s)=e/l	0.0400	0.0050	0.0500	0.0050 Velocity	6	
Tc	7.16	0.00	0.28	1.74	0.00	9.18

R3B

AREA				R3B
Event	2-yr	10-yr	25-yr	100-yr
Acres	1.06	1.06	1.06	1.06
C	0.62	0.64	0.66	0.69
Tc	11.15	11.15	11.15	11.15
I	4.42	6.61	7.86	10.01
Q	**2.91**	**4.47**	**5.47**	**7.29**

Acres			2	10	25	100
Area	**%**					
0.00	**0**	Pasture 2-7%	0.33	0.38	0.42	0.49
0.47	**45**	Grass	0.21	0.25	0.29	0.36
0.00	**0**	Concrete	0.97	0.97	0.97	0.97
0.59	**55**	Asphalt	0.95	0.95	0.95	0.95
	100					

	SHEET Unpaved	SHEET Paved	SHALLOW CONCENTRATED Unpaved	SHALLOW CONCENTRATED Paved	CHANNEL	
	0.007(nL)0.8/($P_2^{0.5}s^{0.4}$)	**Ln/42(s)^0.5**	**L/(60*16.1345*$s^{0.5}$)**	**L/(60*20.3282*$s^{0.5}$)**	**Dist/velocity**	**Sum**
Length	**100**	**0**	**0**	**294 Length**	**0**	
n	0.15	0.016	0.2	0.016		
Slope(s)=e/l	0.0200	0.0200	0.0100	0.0200 Velocity	6	
Tc	9.45	0.00	0.00	1.70	0.00	11.15

* DRAINAGE AREA BYPASSES NEENAH AVE. STORMSEWER COLLECTION SYSTEM.

**DRAINAGE AREAS NOT DESIGNATED ON SHEET 106 – OVERALL EXISTING DRAINAGE AREA MAP BUT ARE CONTAINED WITHIN DRAINAGE AREA ID "3E"

8.4.17
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EXISTING AND PROPOSED ROADWAY DRAINAGE CALCULATIONS

SHEET 109 OF 273

FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	–	14	WILLIAMSON				109

SP-2016-0186D

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Neenah Avenue - Existing Conditions
25-Year Inlet Flow Calculations
Curb Inlets
Date: 08/04/15

CURB INLET I.D.	DRAINAGE AREA NO.	Q	Q_{by}	Q_{total}	SLOPE	CROSS SLOPE	MANNINGS n	a	Yo	STREET WIDTH	PONDED WIDTH	R.F.(%)	Qa/La	La(ft.)	LENGTH	L/La	a/yo	Q/Qa	Q	Q_{PASS}	INLET TYPE	ADEQUATE CAPACITY?
R1A	R1A	13.65	0.00	13.65	0.0200	0.0200	0.0130	0.420	0.312	40.00	15.60	0	0.77	17.68	10	0.57	1.346	0.57	7.72	5.93	GRADE	NO
R2	R2	8.88	5.93	14.81	0.0050	0.0200	0.0130	0.420	0.417	40.00	20.87	0	0.88	16.75	10	0.60	1.006	0.60	8.84	5.97	GRADE	NO
R3A	R3A	4.69	5.97	10.65	0.0050	0.0200	0.0130	0.420	0.369	40.00	18.44	10	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A	SUMP	N/A
R3A	R3A	4.69	0.00	4.69	0.0050	0.0200	0.0130	0.420	0.271	40.00	13.55	10	N/A	8.90	10	1.12	1.549	1.00	15.34	0.00	SUMP	YES
R3B	R3B	5.22	0.00	5.22	0.0070	0.0200	0.0130	0.420	0.265	40.00	13.25	0	0.72	7.21	10	1.39	1.585	1.00	5.22	0.00	GRADE	YES

Input Cells
Calculated Cells

Un-submerged curb opening inlets use the rectangular weir equation:

$Q = 3.0h^{\wedge}1.5L$

Q = capacity of curb opening (cfs)
h = Head at inlet (ft) (= a + Y_o)
L = Length of curb opening (ft)

Note: Because the depth, Yo, is not 1.4 times greater than the curb opening height, a, the sump curb inlet operates as a weir

Neenah Avenue - Existing Conditions
100-Year Inlet Flow Calculations
Curb Inlets
Date: 08/04/15

CUBR INLET I.D.	DRAINAGE AREA NO.	Q	Q_{by}	Q_{total}	SLOPE	CROSS SLOPE	MANNINGS n	a	Yo	STREET WIDTH	PONDED WIDTH	R.F.(%)	Qa/La	La(ft.)	LENGTH	L/La	a/yo	Q/Qa	Q	Q_{PASS}	INLET TYPE	ADEQUATE CAPACITY?
R1A	R1A	19.50	0.00	19.50	0.0200	0.0200	0.0130	0.420	0.357	40.00	17.84	0	0.82	23.81	10	0.42	1.177	0.42	8.19	11.31	GRADE	NO
R2	R2	12.59	11.3	23.90	0.0050	0.0200	0.0130	0.420	0.499	40.00	24.97	0	0.98	24.50	10	0.41	0.841	0.41	9.76	14.14	GRADE	NO
R3A	R3A	6.86	14.14	21.00	0.0050	0.0200	0.0130	0.420	0.476	40.00	23.79	10	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A	SUMP	NO
R3A	R3A	6.86	0.00	6.86	0.0050	0.0200	0.0130	0.420	0.313	40.00	15.63	10	N/A	14.81	10	0.68	1.343	#VALUE!	#VALUE!	#VALUE!	SUMP	NO
R3B	R3B	7.01	0.00	7.01	0.0070	0.0200	0.0130	0.420	0.296	40.00	14.80	0	0.76	9.28	10	1.08	1.419	1.00	7.01	0.00	GRADE	YES

Input Cells
Calculated Cells

Un-submerged curb opening inlets use the rectangular weir equation:

$Q = 3.0h^{\wedge}1.5L$

Q = capacity of curb opening (cfs)
h = Head at inlet (ft) (= a + Y_o)
L = Length of curb opening (ft)

Note: Because the depth, Yo, is not 1.4 times greater than the curb opening height, a, the sump curb inlet operates as a weir

NOTE: Any cells which return the error message "#VALUE!" indicate an under-capacity inlet

Neenah Avenue - Proposed Conditions
25-Year Inlet Flow Calculations
Curb Inlets
Date: 08/04/15

CURB INLET I.D.	DRAINAGE AREA NO.	Q	Q_{by}	Q_{total}	SLOPE	CROSS SLOPE	MANNINGS n	a	Yo	STREET WIDTH	PONDED WIDTH	R.F.(%)	Qa/La	La(ft.)	LENGTH	L/La	a/yo	Q/Qa	Q	Q_{PASS}	INLET TYPE	ADEQUATE CAPACITY?
R1A	R1A	12.80	0.00	12.80	0.0200	0.0200	0.0130	0.420	0.305	52.00	15.23	0	0.76	16.74	25	1.49	1.379	1.00	12.80	0.00	GRADE	YES
R2	R2	11.03	0.00	11.03	0.0050	0.0200	0.0130	0.420	0.374	52.00	18.69	0	0.84	13.18	20	1.52	1.124	1.00	11.03	0.00	GRADE	YES
R3A	R3A	5.61	0.00	5.61	0.0050	0.0200	0.0130	0.420	0.290	52.00	14.50	10	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A	SUMP	N/A
R3A	R3A	5.61	0.00	5.61	0.0050	0.0200	0.0130	0.420	0.290	52.00	14.50	10	N/A	6.25	10	1.60	1.448	1.00	11.22	0.00	SUMP	YES
R3B	R3B	5.47	0.00	5.47	0.0070	0.0200	0.0130	0.420	0.270	52.00	13.48	0	0.73	7.50	10	1.33	1.558	1.00	5.47	0.00	GRADE	YES

Input Cells
Calculated Cells

Un-submerged curb opening inlets use the rectangular weir equation:

$Q = 3.0h^{\wedge}1.5L$

Q = capacity of curb opening (cfs)
h = Head at inlet (ft) (= a + Y_o)
L = Length of curb opening (ft)

Note: Because the depth, Yo, is not 1.4 times greater than the curb opening height, a, the sump curb inlet operates as a weir

Neenah Avenue - Proposed Conditions
100-Year Inlet Flow Calculations
Curb Inlets
Date: 08/04/15

CURB INLET I.D.	DRAINAGE AREA NO.	Q	Q_{by}	Q_{total}	SLOPE	CROSS SLOPE	MANNINGS n	a	Yo	STREET WIDTH	PONDED WIDTH	R.F.(%)	Qa/La	La(ft.)	LENGTH	L/La	a/yo	Q/Qa	Q	Q_{PASS}	INLET TYPE	ADEQUATE CAPACITY?
R1A	R1A	18.24	0.00	18.24	0.0200	0.0200	0.0130	0.420	0.348	52.00	17.40	0	0.81	22.53	25	1.11	1.207	1.00	18.24	0.00	GRADE	YES
R2	R2	15.64	0.00	15.64	0.0050	0.0200	0.0130	0.420	0.426	52.00	21.30	0	0.89	17.50	20	1.14	0.986	1.00	15.64	0.00	GRADE	YES
R3A	R3A	8.04	0.00	8.04	0.0050	0.0200	0.0130	0.420	0.332	52.00	16.59	10	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A	SUMP	N/A
R3A	R3A	8.04	0.00	8.04	0.0050	0.0200	0.0130	0.420	0.332	52.00	16.59	10	N/A	8.22	10	1.22	1.266	1.00	16.07	0.00	SUMP	YES
R3B	R3B	7.29	0.00	7.29	0.0070	0.0200	0.0130	0.420	0.300	52.00	15.02	0	0.76	9.60	10	1.04	1.398	1.00	7.29	0.00	GRADE	YES

Input Cells
Calculated Cells

Un-submerged curb opening inlets use the rectangular weir equation:

$Q = 3.0h^{\wedge}1.5L$

Q = capacity of curb opening (cfs)
h = Head at inlet (ft) (= a + Y_o)
L = Length of curb opening (ft)

Note: Because the depth, Yo, is not 1.4 times greater than the curb opening height, a, the sump curb inlet operates as a weir

Neenah Avenue - Proposed Conditions
25-Year Inlet Flow Calculations (Flowmaster)
7'x7' 4-Sided Area Inlet Calculations
Date: 08/04/15

CURB INLET I.D.	DRAINAGE AREA NO.	Q (cfs)	CROSS SLOPE (ft/ft)	OPENING LENGTH (ft)	OPENING HEIGHT (ft)	THROAT TYPE	THROAT INCLINE ANGLE (°)	SPREAD	DEPTH
R1B	R1B	36.00	0.33	24.0	0.5	Inclined	45	1.980	0.65

Neenah Avenue - Proposed Conditions
100-Year Inlet Flow Calculations (Flowmaster)
7'x7' 4-Sided Area Inlet Calculations
Date: 08/04/15

CURB INLET I.D.	DRAINAGE AREA NO.	Q (cfs)	CROSS SLOPE (ft/ft)	OPENING LENGTH (ft)	OPENING HEIGHT (ft)	THROAT TYPE	THROAT INCLINE ANGLE (°)	SPREAD	DEPTH
R1B	R1B	56.00	0.33	24.0	0.5	Inclined	45	2.820	0.93

Input Cells
Calculated Cells

8.4.17
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INLET CALCULATIONS

SHEET 110 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				110

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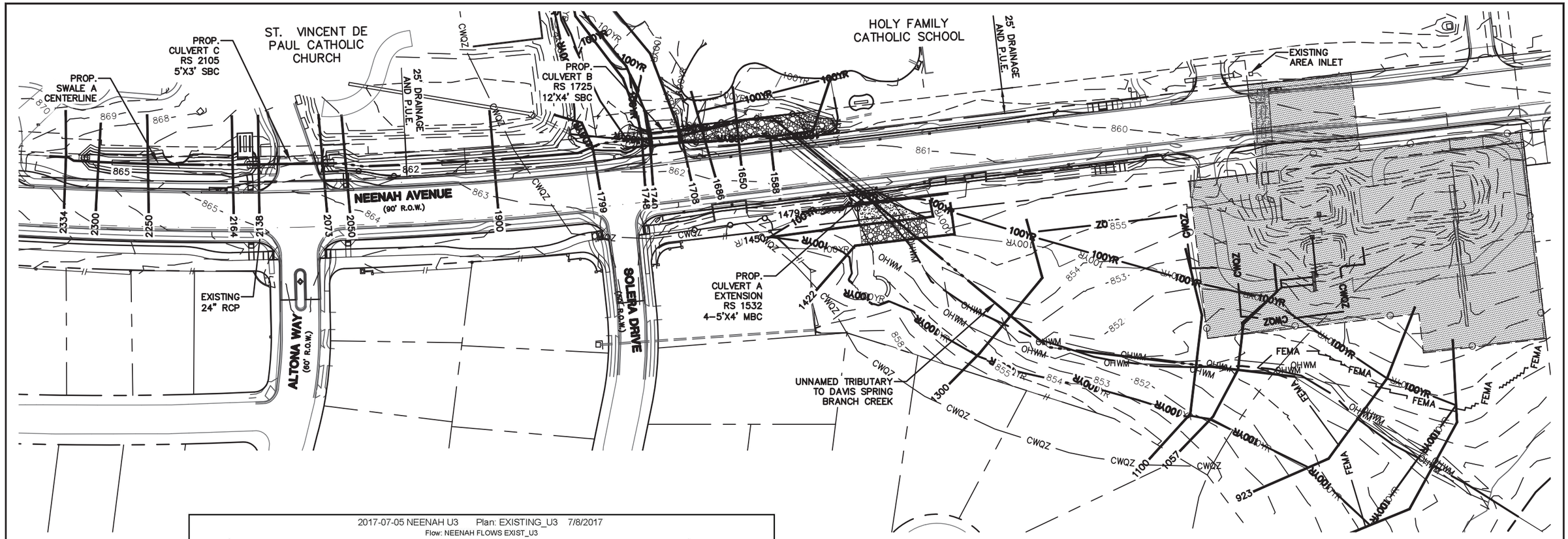

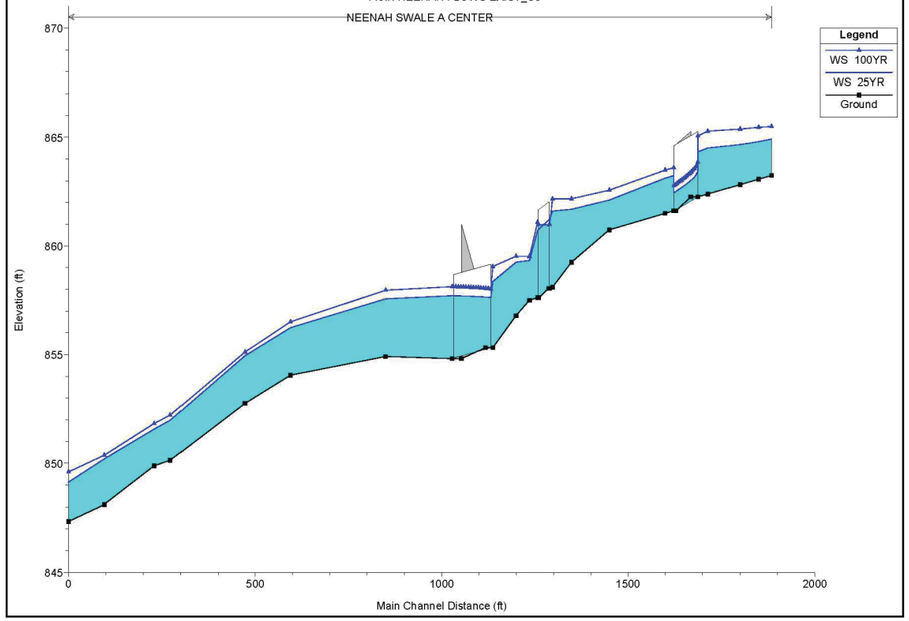

100 0 50 100

1" = 100'

LEGEND

- RAS REACH CL
- CREEK CL
- 100YR — EXISTING 100 YR WSEL
- **100YR** — PROPOSED 100 YR WSEL
- OHWM — ORDINARY HIGH WATER MARK
- **FEMA** — FEMA 100YR FLOODPLAIN
- CWQZ — AVERAGED CRITICAL WATER QUALITY ZONE

8-4-17

STATE OF TEXAS
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HYDRAULIC DATA SHEET 1

SHEET 111 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				111

SP-2016-0186D

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HEC-RAS River: NEENAH Reach: SWALE A CENTER

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
SWALE A CENTER	2333.89	25YR	PROP_U3	36.7	863.24	864.9	864.3	865.10	0.009361	3.5	10.6	6.6	0.48
SWALE A CENTER	2333.89	25YR	EXIST_U3	36.7	863.24	864.9	864.3	865.10	0.009361	3.5	10.6	6.6	0.48
SWALE A CENTER	2333.89	100YR	PROP_U3	57.7	863.24	865.5	864.6	865.74	0.009499	4.0	14.6	6.8	0.48
SWALE A CENTER	2333.89	100YR	EXIST_U3	57.7	863.24	865.5	864.6	865.74	0.009507	4.0	14.6	6.8	0.48
SWALE A CENTER	2300	25YR	PROP_U3	36.7	863.07	864.8		864.86	0.003260	2.0	18.1	15.6	0.33
SWALE A CENTER	2300	25YR	EXIST_U3	36.7	863.07	864.8		864.86	0.003260	2.0	18.1	15.6	0.33
SWALE A CENTER	2300	100YR	PROP_U3	57.7	863.07	865.5		865.52	0.002097	1.9	29.7	19.6	0.28
SWALE A CENTER	2300	100YR	EXIST_U3	57.7	863.07	865.5		865.52	0.002100	1.9	29.7	19.6	0.28
SWALE A CENTER	2250	25YR	PROP_U3	36.7	862.82	864.7		864.72	0.002598	1.9	19.7	16.4	0.30
SWALE A CENTER	2250	25YR	EXIST_U3	36.7	862.82	864.7		864.72	0.002598	1.9	19.7	16.4	0.30
SWALE A CENTER	2250	100YR	PROP_U3	57.7	862.82	865.4		865.42	0.001532	1.7	33.1	20.8	0.24
SWALE A CENTER	2250	100YR	EXIST_U3	57.7	862.82	865.4		865.42	0.001535	1.7	33.0	20.8	0.24
SWALE A CENTER	2164.33	25YR	PROP_U3	36.7	862.39	864.5		864.54	0.001513	1.5	23.9	17.5	0.23
SWALE A CENTER	2164.33	25YR	EXIST_U3	36.7	862.39	864.5		864.54	0.001513	1.5	23.9	17.5	0.23
SWALE A CENTER	2164.33	100YR	PROP_U3	57.7	862.39	865.3		865.31	0.001026	1.4	40.2	27.0	0.20
SWALE A CENTER	2164.33	100YR	EXIST_U3	57.7	862.39	865.3		865.31	0.001022	1.4	41.7	63.3	0.20
SWALE A CENTER	2138.1	25YR	PROP_U3	36.7	862.26	864.3	863.3	864.45	0.005173	2.8	13.1	6.6	0.35
SWALE A CENTER	2138.1	25YR	EXIST_U3	36.7	862.26	864.3	863.3	864.45	0.005172	2.8	13.1	6.6	0.35
SWALE A CENTER	2138.1	100YR	PROP_U3	57.7	862.26	865.1	863.7	865.22	0.005264	3.2	18.0	6.8	0.35
SWALE A CENTER	2138.1	100YR	EXIST_U3	57.7	862.26	865.1	863.7	865.22	0.005268	3.2	18.0	6.8	0.35
SWALE A CENTER	2105.86			Culvert									
SWALE A CENTER	2073.29	25YR	PROP_U3	36.7	861.62	863.1		863.36	0.012933	3.9	9.5	6.5	0.56
SWALE A CENTER	2073.29	25YR	EXIST_U3	36.7	861.62	863.2	862.7	863.44	0.010661	3.6	10.2	6.5	0.51
SWALE A CENTER	2073.29	100YR	PROP_U3	57.7	861.62	863.5		863.84	0.017871	5.0	11.6	6.6	0.66
SWALE A CENTER	2073.29	100YR	EXIST_U3	57.7	861.62	863.6	863.0	863.93	0.014240	4.6	12.6	6.6	0.58
SWALE A CENTER	2050	25YR	PROP_U3	36.7	861.50	863.1		863.14	0.003636	2.2	16.9	14.0	0.35
SWALE A CENTER	2050	25YR	EXIST_U3	36.7	861.50	863.1	862.5	863.23	0.004989	2.7	13.7	15.8	0.42
SWALE A CENTER	2050	100YR	PROP_U3	57.7	861.50	863.4		863.52	0.004246	2.6	22.0	15.3	0.39
SWALE A CENTER	2050	100YR	EXIST_U3	57.7	861.50	863.5	862.8	863.65	0.005709	3.2	18.0	17.9	0.46
SWALE A CENTER	1900	25YR	PROP_U3	36.7	860.74	862.7		862.71	0.002239	1.8	20.7	16.5	0.28
SWALE A CENTER	1900	25YR	EXIST_U3	36.7	860.74	862.1		862.24	0.008921	2.9	12.5	13.2	0.53
SWALE A CENTER	1900	100YR	PROP_U3	57.7	860.74	862.8		862.89	0.004185	2.5	23.0	17.3	0.38
SWALE A CENTER	1900	100YR	EXIST_U3	57.7	860.74	862.6		862.71	0.006883	3.0	19.1	16.0	0.49
SWALE A CENTER	1798.65	25YR	PROP_U3	243.9	859.25	860.7	860.7	861.24	0.023451	5.8	43.3	36.5	0.92
SWALE A CENTER	1798.65	25YR	EXIST_U3	243.9	859.25	861.7		861.83	0.003720	3.1	80.7	43.3	0.39
SWALE A CENTER	1798.65	100YR	PROP_U3	326.6	859.25	861.2		861.65	0.015380	5.5	60.7	39.8	0.77
SWALE A CENTER	1798.65	100YR	EXIST_U3	326.6	859.25	862.2		862.33	0.003371	3.2	103.0	47.7	0.38
SWALE A CENTER	1747.85	25YR	PROP_U3	243.9	856.87	860.7		861.03	0.001221	4.7	52.0	19.4	0.45
SWALE A CENTER	1747.85	25YR	EXIST_U3	243.9	858.10	861.6		861.74	0.000962	3.4	130.4	142.6	0.42
SWALE A CENTER	1747.85	100YR	PROP_U3	326.6	856.87	860.9	859.6	861.44	0.001788	5.8	64.1	80.8	0.55
SWALE A CENTER	1747.85	100YR	EXIST_U3	326.6	858.10	862.2	861.3	862.25	0.000576	2.9	218.6	173.0	0.34
SWALE A CENTER	1739.93	25YR	PROP_U3	243.9	856.80	860.7	859.1	861.01	0.001108	4.6	53.5	21.5	0.44
SWALE A CENTER	1739.93	25YR	EXIST_U3	243.9	858.05	861.2	860.3	861.65	0.001775	5.3	61.4	77.5	0.56
SWALE A CENTER	1739.93	100YR	PROP_U3	326.6	856.80	860.9	859.5	861.42	0.001645	5.8	60.5	43.4	0.53
SWALE A CENTER	1739.93	100YR	EXIST_U3	326.6	858.05	861.0	861.0	861.97	0.004352	8.0	46.6	49.0	0.87
SWALE A CENTER	1724.13			Culvert									
SWALE A CENTER	1707.89	25YR	PROP_U3	243.9	856.50	858.7	858.7	859.75	0.008986	8.1	30.1	14.9	1.00
SWALE A CENTER	1707.89	25YR	EXIST_U3	243.9	857.62	860.7	860.7	861.32	0.003060	6.6	59.9	77.5	0.68
SWALE A CENTER	1707.89	100YR	PROP_U3	326.6	856.50	859.2	859.2	860.40	0.008738	8.8	37.1	15.5	1.00
SWALE A CENTER	1707.89	100YR	EXIST_U3	326.6	857.62	861.1	861.1	861.66	0.002939	6.8	93.5	101.4	0.67
SWALE A CENTER	1686.03	25YR	PROP_U3	243.9	856.27	857.5	858.0	859.23	0.026679	10.5	23.3	18.7	1.66
SWALE A CENTER	1686.03	25YR	EXIST_U3	243.9	857.50	859.3	859.9	860.85	0.114560	9.9	25.6	42.0	1.88
SWALE A CENTER	1686.03	100YR	PROP_U3	326.6	856.27	859.2	858.4	859.71	0.003335	5.9	58.8	38.5	0.62
SWALE A CENTER	1686.03	100YR	EXIST_U3	326.6	857.50	859.5	860.0	861.14	0.102019	10.5	33.4	42.9	1.83
SWALE A CENTER	1650	25YR	PROP_U3	275.0	855.92	858.1	857.8	858.83	0.005822	6.8	40.9	21.8	0.81
SWALE A CENTER	1650	25YR	EXIST_U3	275.0	856.79	859.3	859.3	859.73	0.022365	5.9	52.5	54.2	0.90
SWALE A CENTER	1650	100YR	PROP_U3	378.4	855.92	858.9	858.3	859.56	0.004166	6.8	60.9	33.2	0.71
SWALE A CENTER	1650	100YR	EXIST_U3	378.4	856.79	859.5	859.5	860.06	0.020567	6.2	67.5	55.3	0.88
SWALE A CENTER	1587.68	25YR	PROP_U3	275.0	855.32	858.4	856.6	858.46	0.000459	2.5	109.6	64.1	0.26
SWALE A CENTER	1587.68	25YR	EXIST_U3	275.0	855.32	858.4	856.6	858.45	0.001431	2.5	116.3	49.2	0.25
SWALE A CENTER	1587.68	100YR	PROP_U3	378.4	855.32	859.1	856.8	859.20	0.000435	2.8	135.9	105.1	0.26
SWALE A CENTER	1587.68	100YR	EXIST_U3	378.4	855.32	859.1	856.9	859.16	0.001335	2.7	154.2	84.3	0.25
SWALE A CENTER	1532.28			Culvert									
SWALE A CENTER	1478.73	25YR	PROP_U3	275.0	854.81	856.8		857.08	0.001577	4.6	60.0	35.2	0.58
SWALE A CENTER	1478.73	25YR	EXIST_U3	275.0	854.81	857.7		857.82	0.000383	2.7	100.0	36.1	0.29
SWALE A CENTER	1478.73	100YR	PROP_U3	378.4	854.81	857.0		857.48	0.002047	5.6	67.2	35.4	0.67
SWALE A CENTER	1478.73	100YR	EXIST_U3	378.4	854.81	858.1		858.29	0.000466	3.3	114.8	36.6	0.32
SWALE A CENTER	1450.06	25YR	PROP_U3	275.0	854.91	856.7		856.91	0.002197	3.4	85.3	168.1	0.52
SWALE A CENTER	1450.06	25YR	EXIST_U3	275.0	854.91	857.6		857.65	0.004078	2.3	118.9	182.8	0.27
SWALE A CENTER	1450.06	100YR	PROP_U3	378.4	854.91	857.0		857.24	0.002195	3.9	105.7	173.7	0.53
SWALE A CENTER	1450.06	100YR	EXIST_U3	378.4	854.91	858.0		858.07	0.004482	2.7	139.9	188.3	0.29

HEC-RAS River: NEENAH Reach: SWALE A CENTER (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
SWALE A CENTER	1422.41	25YR	PROP_U3	275.0	854.05	856.2		856.33	0.006496	2.6	120.7	124.9	0.33
SWALE A CENTER	1422.41	25YR	EXIST_U3	275.0	854.05	856.2		856.33	0.006522	2.6	120.5	124.8	0.33
SWALE A CENTER	1422.41	100YR	PROP_U3	378.4	854.05	856.5		856.63	0.006936	2.9	148.2	141.3	0.35
SWALE A CENTER	1422.41	100YR	EXIST_U3	378.4	854.05	856.5		856.63	0.007008	2.9	147.6	141.1	0.35
SWALE A CENTER	1300	25YR	PROP_U3	275.0	852.75	854.9		855.05	0.018512	2.7	102.3	121.4	0.50
SWALE A CENTER	1300	25YR	EXIST_U3	275.0	852.75	854.9		855.06	0.018184	2.7	102.9	122.0	0.50
SWALE A CENTER	1300	100YR	PROP_U3	378.4	852.75	855.1		855.25	0.020077	3.1	123.3	136.3	0.54
SWALE A CENTER	1300	100YR	EXIST_U3	378.4	852.75	855.1		855.26	0.019082	3.1	125.4	137.2	0.52
SWALE A CENTER	1100	25YR	PROP_U3	275.0	850.13	852.0		852.07	0.012181	2.5	115.8	125.1	0.42
SWALE A CENTER	1100	25YR	EXIST_U3	275.0	850.13	852.0		852.07	0.012430	2.5	115.0	124.8	0.42
SWALE A CENTER	1100	100YR	PROP_U3	378.4	850.13	852.2		852.34	0.010956	2.7	148.9	138.0	0.41
SWALE A CENTER	1100	100YR	EXIST_U3	378.4	850.13	852.2		852.32	0.011553	2.7	146.2	137.0	0.42
SWALE A CENTER	1057.44	25YR	EXIST_U3	275.0	849.88	851.6		851.64	0.008062	2.2	132.3	121.0	0.35
SWALE A CENTER	1057.44	100YR	EXIST_U3	378.4	849.88	851.8		851.91	0.007957	2.4	165.0	131.8	0.35
SWALE A CENTER	1057.34	25YR	PROP_U3	275.0	849.68	851.6		851.64	0.008499	2.3	121.4	100.3	0.36
SWALE A CENTER	1057.34	100YR	PROP_U3	378.4	849.68	851.8		851.93	0.008361	2.5	150.1	108.2	0.37
SWALE A CENTER	923.04	25YR	PROP_U3	275.0	848.11	850.1		850.24	0.013280	2.7	105.7	113.2	0.44
SWALE A CENTER	923.04	25YR	EXIST_U3	275.0	848.11	850.2		850.29	0.012865	2.4	114.4	117.2	0.42
SWALE A CENTER	923.04	100YR	PROP_U3	378.4	848.11	850.3		850.44	0.015485	3.2	125.4	122.0	0.49
SWALE A CENTER	923.04	100YR	EXIST_U3	378.4	848.11	850.4		850.49	0.014809	2.8	134.5	126.0	0.47
SWALE A CENTER	835.28	25YR	PROP_U3	277.9	847.34	849.1	848.6	849.19	0.010013	2.3	124.7	130.7	0.38
SWALE A CENTER	835.28	100YR	PROP_U3	383.4	847.34	849.6	848.7	849.67	0.005240	2.1	196.1	160.8	0.29
SWALE A CENTER	833.28	25YR	EXIST_U3	277.9	847.34	849.1	848.6	849.21	0.010014	2.3	127.4	132.0	0.38
SWALE A CENTER	833.28	100YR	EXIST_U3	384.1	847.34	849.6	848.7	849.66	0.005389	2.1	196.1	160.8	0.30

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

Stantec
221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-6324 TBPLS # F-10194230
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HYDRAULIC DATA SHEET 2

SHEET 112 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				112

SP-2016-0186D

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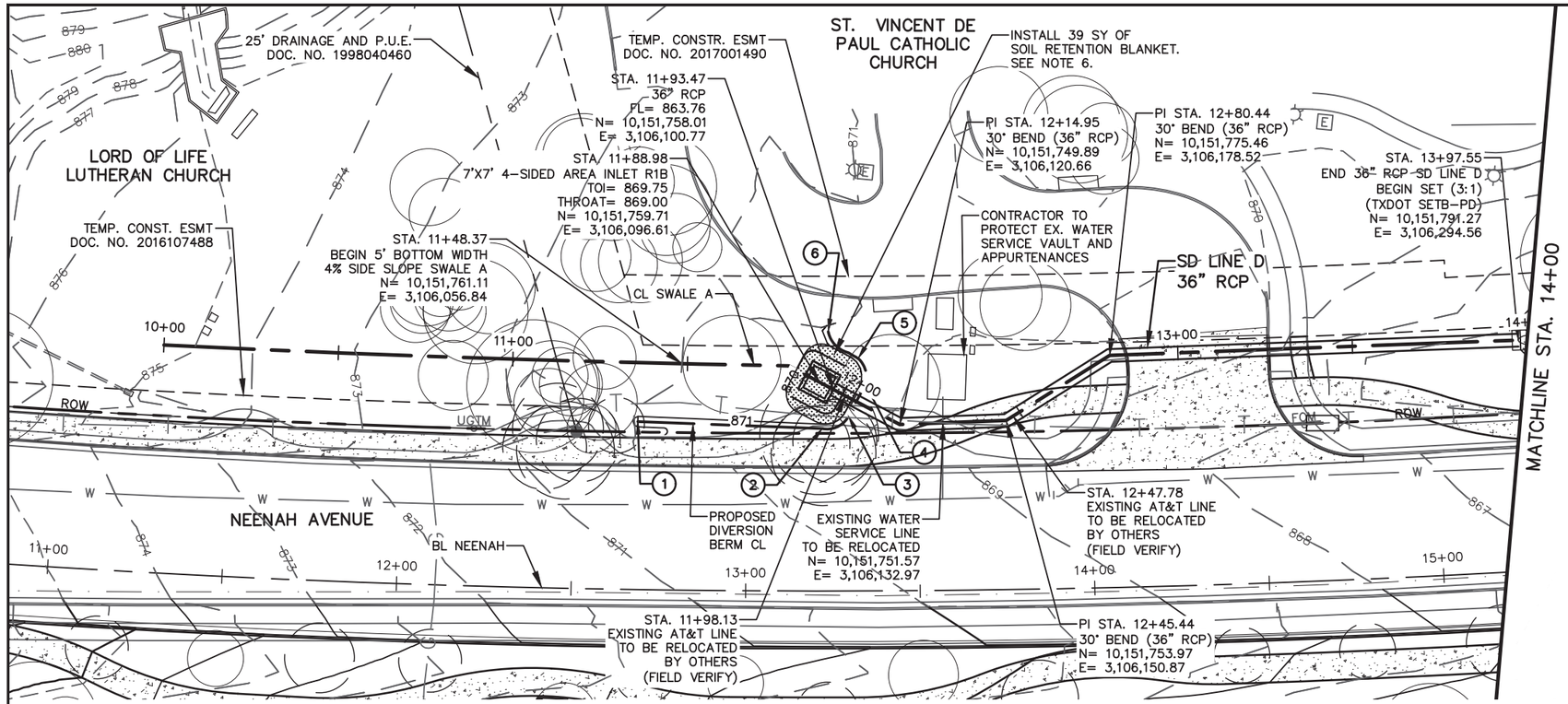
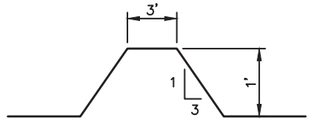
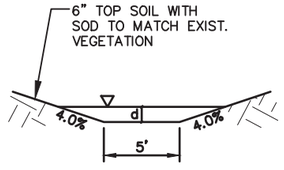
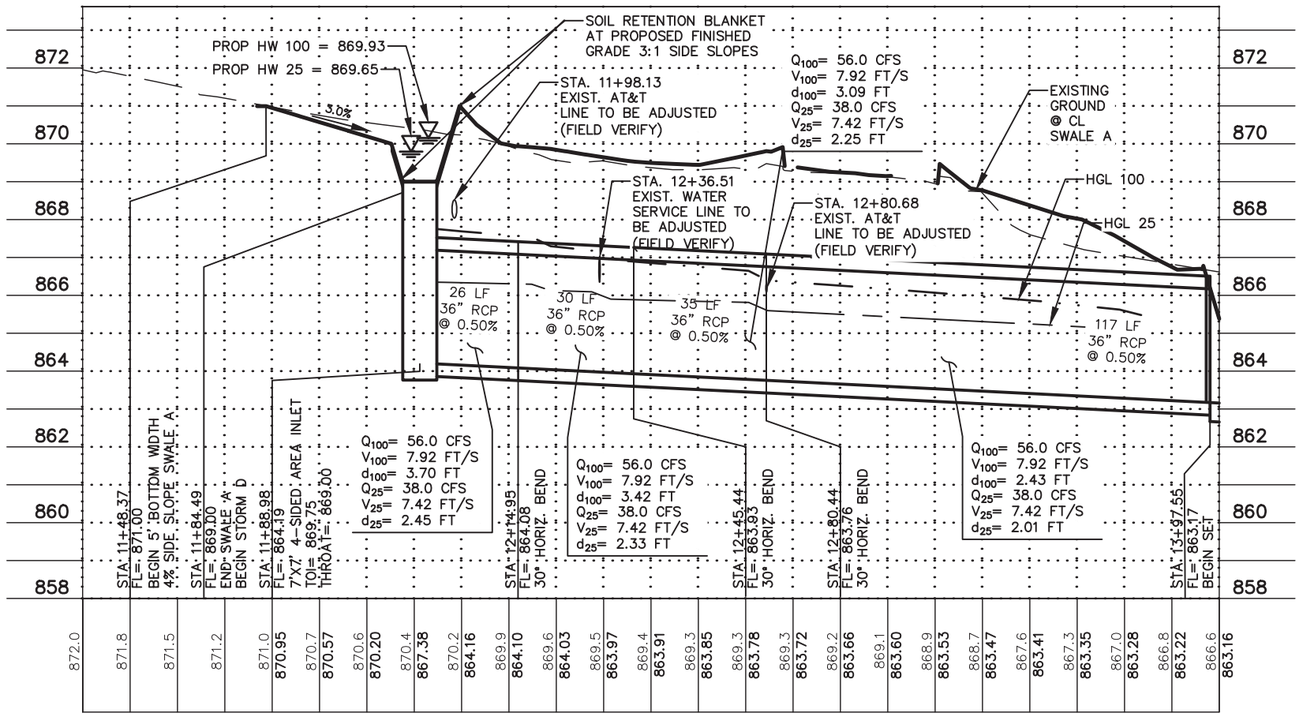


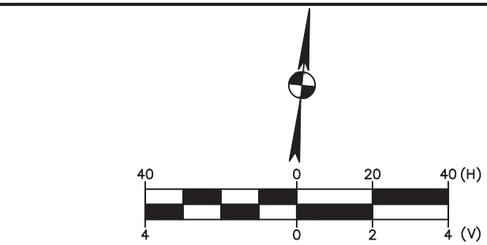


DIVERSION BERM
N.T.S.



SWALE A – EARTHEN TYPICAL SECTION
(SCALE 1" = 10')





NOTES:
1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED SWALE A BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
3. REFER TO THE UTILITY SHEETS FOR MORE INFORMATION.
4. REFER TO RETAINING WALL SHEETS FOR MORE INFORMATION.
5. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
6. SOIL RETENTION BLANKET TO BE TENSAR ROLLMAX SC250 OR APPROVED EQUAL.

POINT TABLE – DIVERSION BERM CL		
NO.	START NORTHING	START EASTING
1	N= 10,151,743.37	E= 3,106,045.91
2	N= 10,151,746.54	E= 3,106,098.70
3	N= 10,151,750.81	E= 3,106,105.85
4	N= 10,151,760.45	E= 3,106,109.77
5	N= 10,151,767.55	E= 3,106,106.94
6	N= 10,151,774.35	E= 3,106,097.67

PROFILE LEGEND:
- EXISTING GND
- PROPOSED GND
- PROPOSED PIPE
- 100YR HGL
- 25YR HGL

ELEVATION EXISTING GND 669.7 | 671.59 ELEVATION PROPOSED GND @ SWALE BOTTOM

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-8324 TBPLS # F-10194230
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DRAINAGE SWALE A STA. 10+00 TO STA. 14+00

SHEET 113 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				113

SP-2016-0186D

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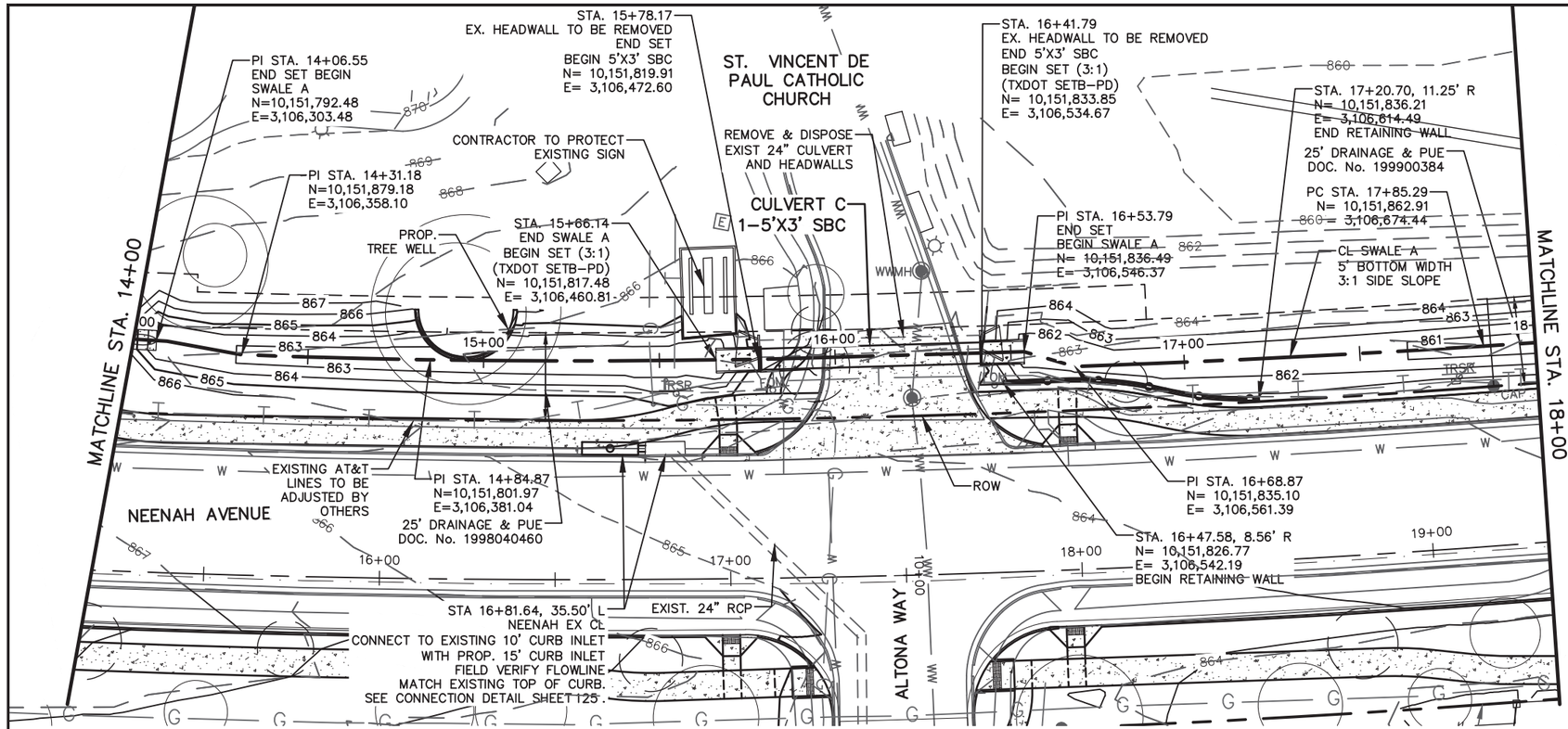
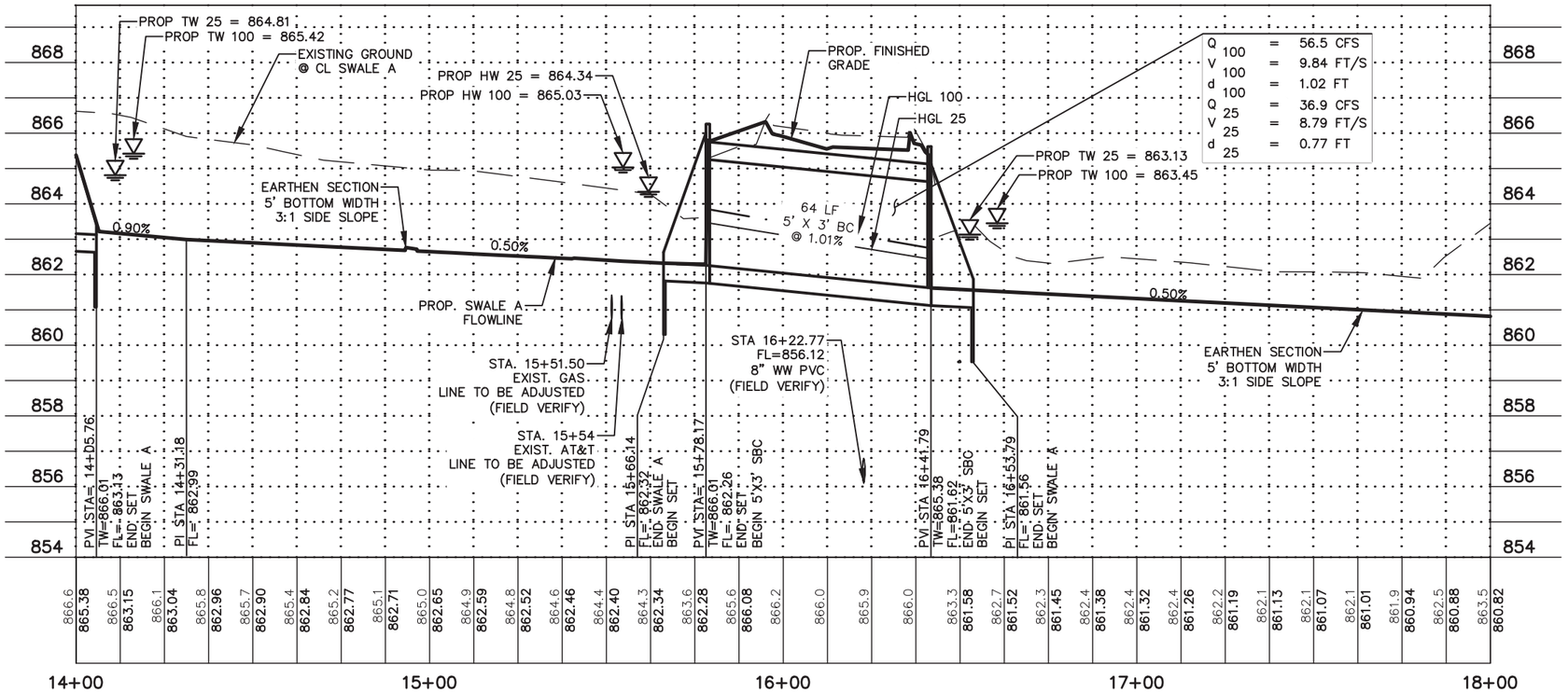
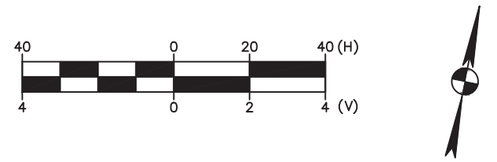
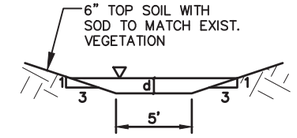






NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED SWALE A BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
3. REFER TO THE UTILITY SHEETS FOR MORE INFORMATION.
4. 5'X3' SBC PER TXDOT STANDARDS FOR LESS THAN 2' OF FILL.
5. REFER TO RETAINING WALL SHEETS FOR MORE INFORMATION.
6. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.



SWALE A – EARTHEN TYPICAL SECTION
(SCALE 1" = 10')

PROFILE LEGEND:

EXISTING GND	
PROPOSED GND	
PROPOSED PIPE	
100YR HGL	
25YR HGL	
ELEVATION EXISTING GND 669.7	ELEVATION PROPOSED GND @ SWALE BOTTOM 671.59

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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DRAINAGE SWALE A STA. 14+00 TO STA. 18+00

SHEET 114 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				114

SP-2016-0186D

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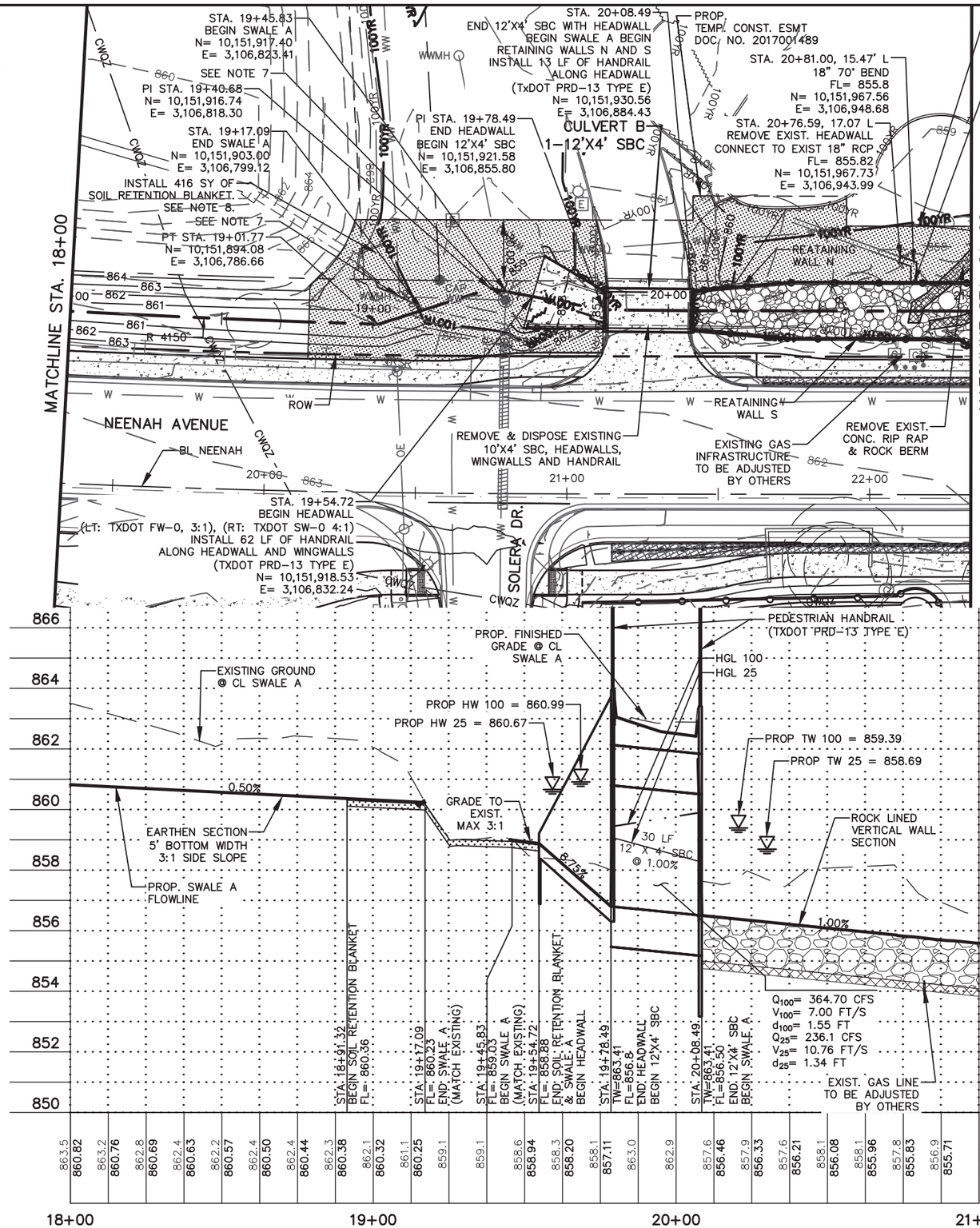


INSTALL 423 SY OF SOIL RETENTION BLANKET. SEE NOTE 8.

STA. 20+80.97
EXTEND 18" RCP TO RET. WALL N
@ 0.5% SLOPE
FL= 855.77
N= 10,151,961.48
E= 3,106,950.61

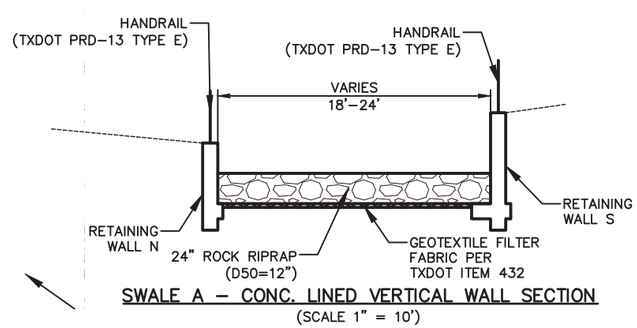
40 0 20 40 (H)
4 0 2 4 (V)

LEGEND

- 100YR — EXISTING 100 YR WSEL
- **100YR** — PROPOSED 100 YR WSEL
- CWQZ — CRITICAL WATER QUALITY ZONE

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED SWALE A BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
3. REFER TO THE UTILITY SHEETS FOR MORE INFORMATION.
4. 12'X4' SBC PER TXDOT STANDARDS FOR LESS THAN 2' OF FILL.
5. REFER TO RETAINING WALL SHEETS FOR MORE INFORMATION.
6. REFER TO SIGNAGE AND PAVEMENT MARKING SHEETS FOR METAL BEAM GUARD FENCE INFORMATION.
7. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
8. SOIL RETENTION BLANKET TO BE TENSAR ROLLMAX SC250 OR APPROVED EQUAL.



SWALE A – CONC. LINED VERTICAL WALL SECTION
(SCALE 1" = 10')

PROFILE LEGEND:

- EXISTING GND
- PROPOSED GND
- PROPOSED PIPE
- 100YR HGL
- 25YR HGL

ELEVATION EXISTING GND	669.7	ELEVATION PROPOSED GND @ SWALE BOTTOM	671.59

8-4-17
STATE OF TEXAS
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DRAINAGE SWALE A
STA. 18+00 TO 21+00

SHEET 115 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				115

SP-2016-0186D

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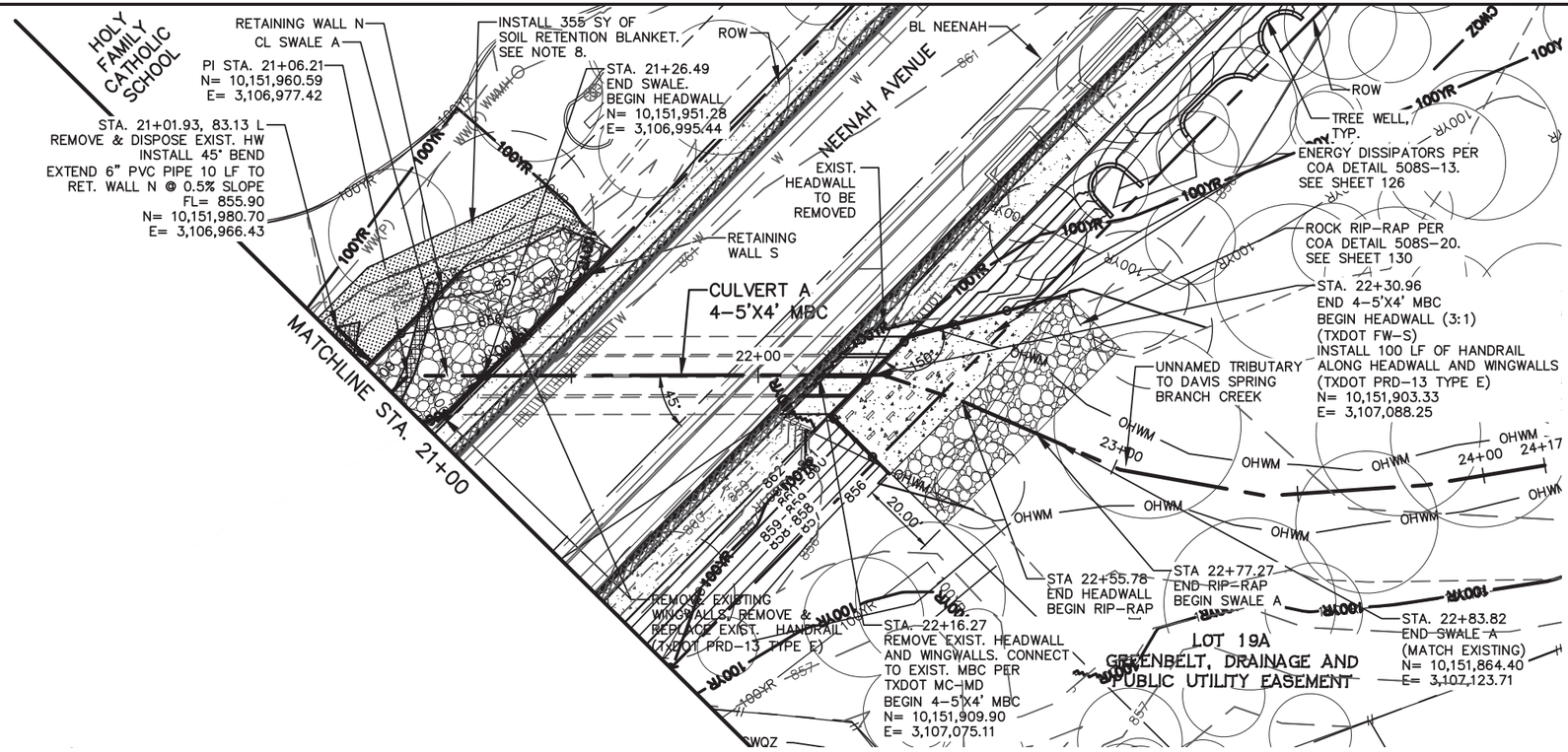

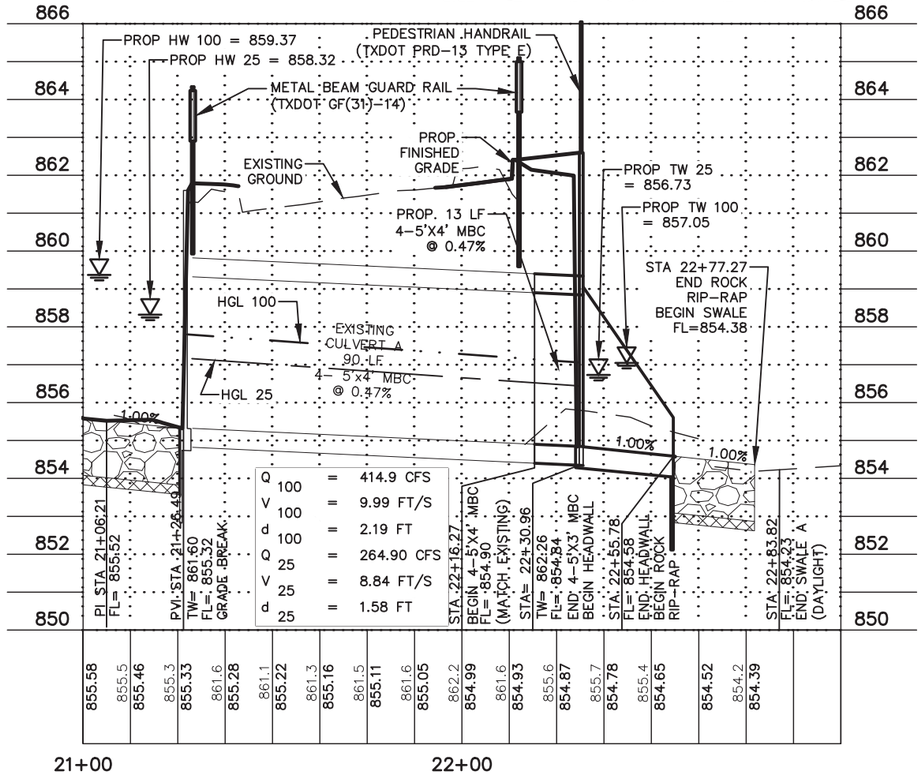

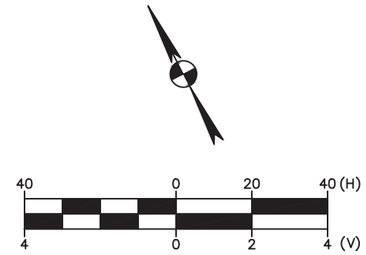

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED SWALE A BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
3. REFER TO THE UTILITY SHEETS FOR MORE INFORMATION.
4. REFER TO RETAINING WALL SHEETS FOR MORE INFORMATION.
5. REFER TO SIGNAGE AND PAVEMENT MARKING SHEETS FOR METAL BEAM GUARD FENCE INFORMATION.
6. 5'X4' MBC SHALL BE CAST IN PLACE. CONTRACTOR TO FIELD VERIFY ACTUAL CULVERT DIMENSIONS FOR EACH BARREL AND MATCH EXISTING AT CONNECTION.
7. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
8. SOIL RETENTION BLANKET TO BE TENSAR ROLLMAX SC250 OR APPROVED EQUAL.

LEGEND

100YR	EXISTING 100 YR WSEL
100YR	PROPOSED 100 YR WSEL
OHWM	ORDINARY HIGH WATER MARK
CWQZ	CRITICAL WATER QUALITY ZONE

PROFILE LEGEND:

EXISTING GND	
PROPOSED GND	
PROPOSED PIPE	
100YR HGL	
25YR HGL	

ELEVATION EXISTING GND	669.7
ELEVATION PROPOSED GND @ SWALE BOTTOM	671.59

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DRAINAGE SWALE A
STA. 21+00 TO END

SHEET 116 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				116

SP-2016-0186D

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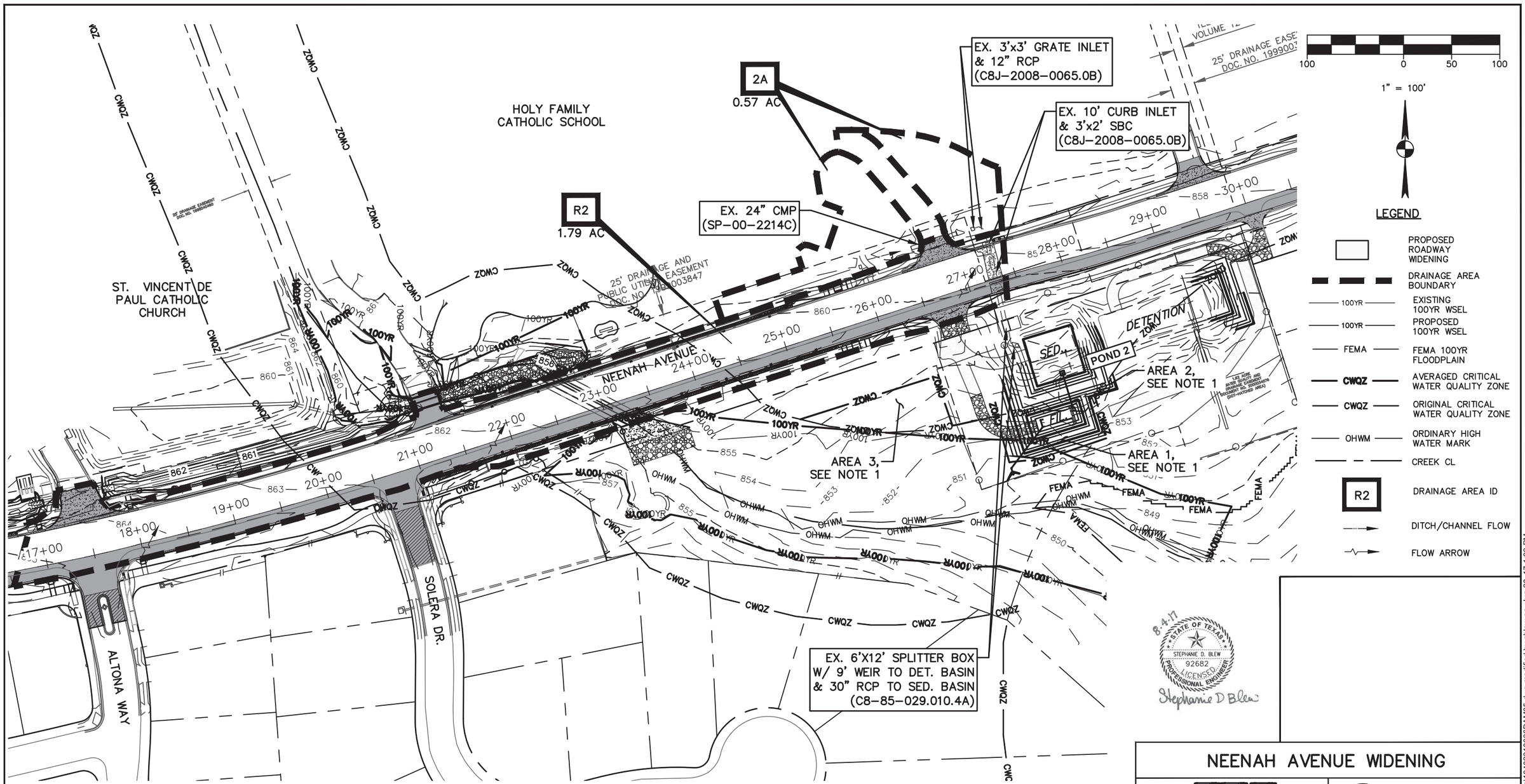

NOTES:
1. THE OUTER HALF OF THE CRITICAL WATER QUALITY ZONE HAS BEEN BUFFERED IN THE VICINITY OF POND 2. AREA 1 (4,754.15 SF) AND AREA 2 (192.76 SF) HAVE BEEN REMOVED FOR A TOTAL OF 4,946.91 SF. AREA 3 (4,950.00 SF) HAS BEEN ADDED, FOR A NET GAIN OF 3.09 SF OF CRITICAL WATER QUALITY ZONE ON THE PROJECT.

8-4-17
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DRAINAGE AREA MAP – POND 2

SHEET 117 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				117

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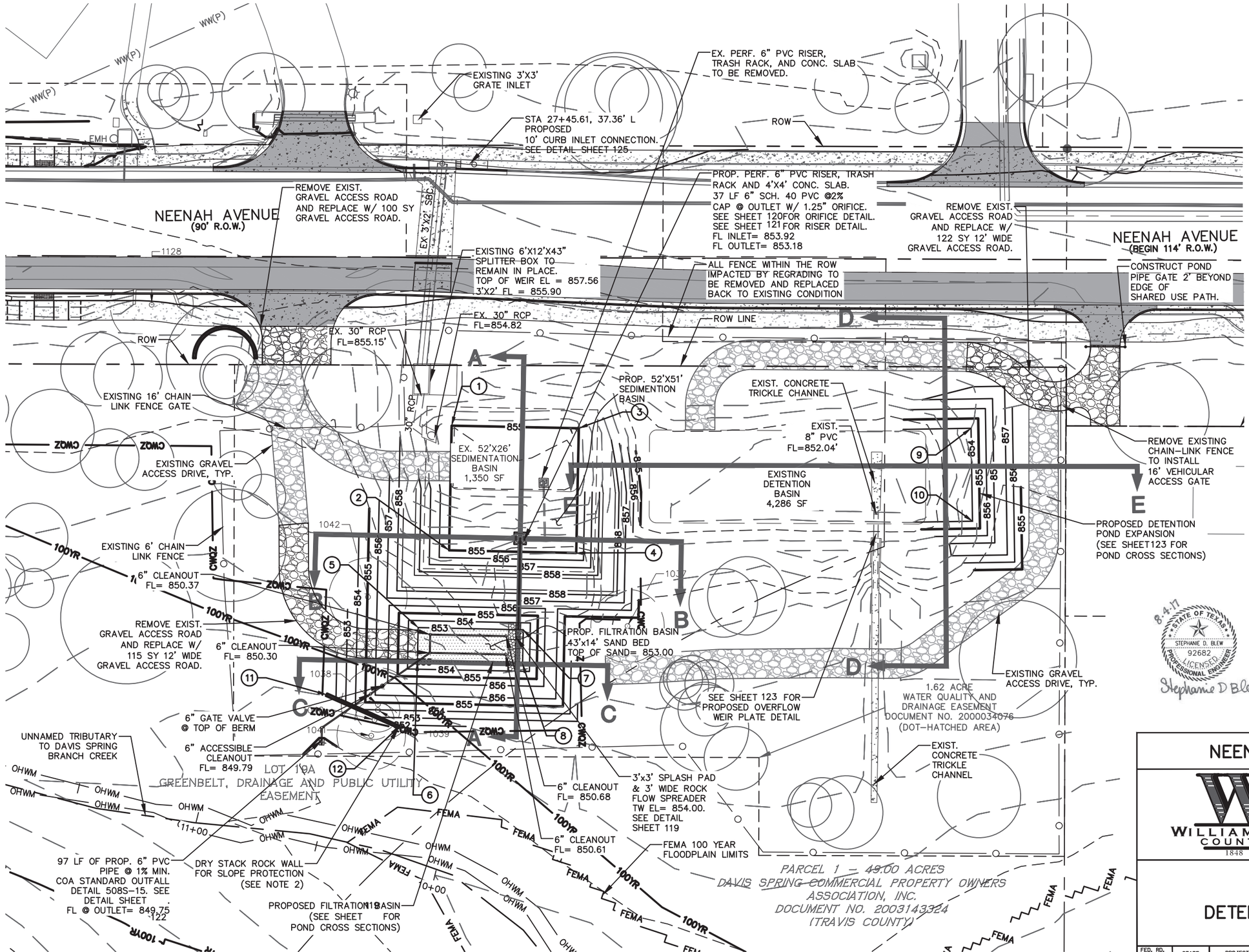

NOTES:

1. SEE TxDOT DETAIL CLF-10 FOR ADDITIONAL DETAILS.
2. CONTRACTOR SHALL PREPARE AND SUBMIT A RETAINING WALL DETAIL SIGNED AND SEALED BY A TEXAS PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION. THE STANDARD PROVIDED (623S-1) SHOULD BE USED AS AN EXAMPLE OF THE TYPE OF WALL DESIRED AT THIS LOCATION.
3. CONTRACTOR SHALL COMPLY WITH CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL SECTION 1.6.5. A GUIDELINES FOR SEDIMENTATION/FILTRATION SYSTEMS FOR ALL ELEMENTS OF POND2 WHICH IS A CITY OF AUSTIN MAINTAINED POND.
4. CONTRACTOR SHALL PROVIDE A SUBMITTAL FOR THE TRASH RACK.
5. CONTRACTOR SHALL PROVIDE A POST CONSTRUCTION SURVEY SEALED BY AN RPLS FOR THE AS-BUILT CONDITION OF THE POND.

CONTROL POINTS		
POINT #	NORTHING	EASTING
1	10151989.99	3107490.33
2	10151941.2	3107505.16
3	10152005.12	3107540.08
4	10151956.32	3107554.91
5	10151907.24	3107502.94
6	10151893.84	3107507.01
7	10151919.74	3107544.08
8	10151906.35	3107548.15
9	10152054.91	3107692.54
10	10152018.98	3107704.91
11	10151869.52	3107475.89
12	10151866.18	3107508.06

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WATER QUALITY & DETENTION PLAN – POND 2

SHEET 118 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				118

SP-2016-0186D

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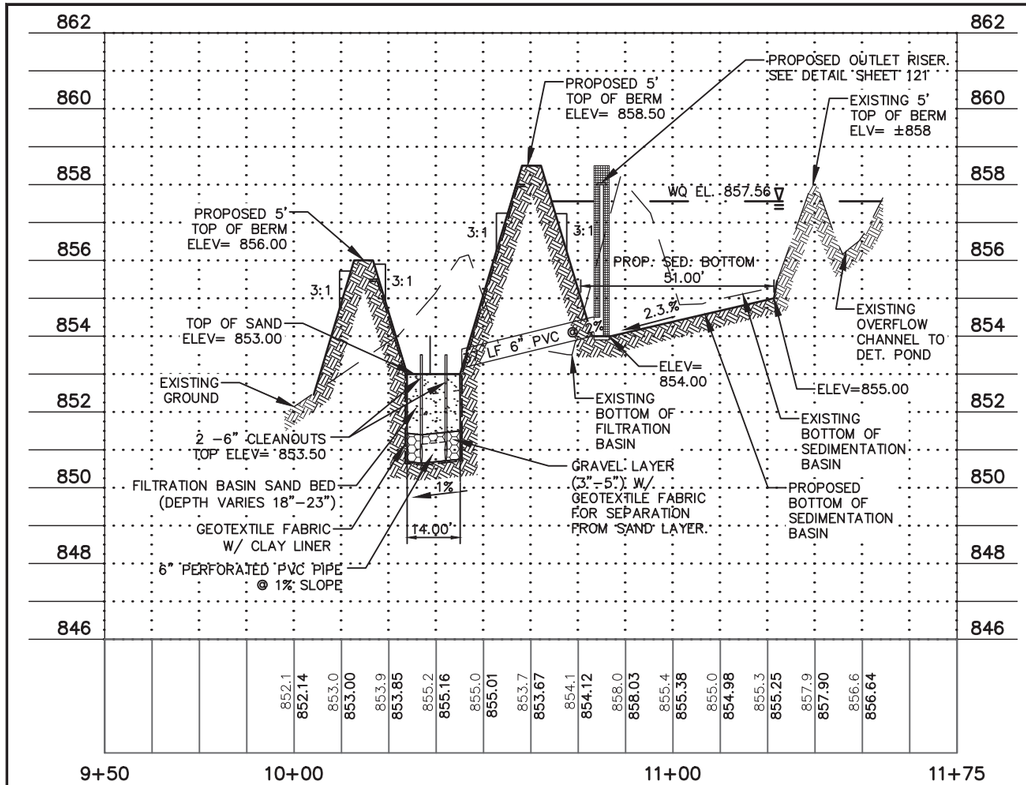
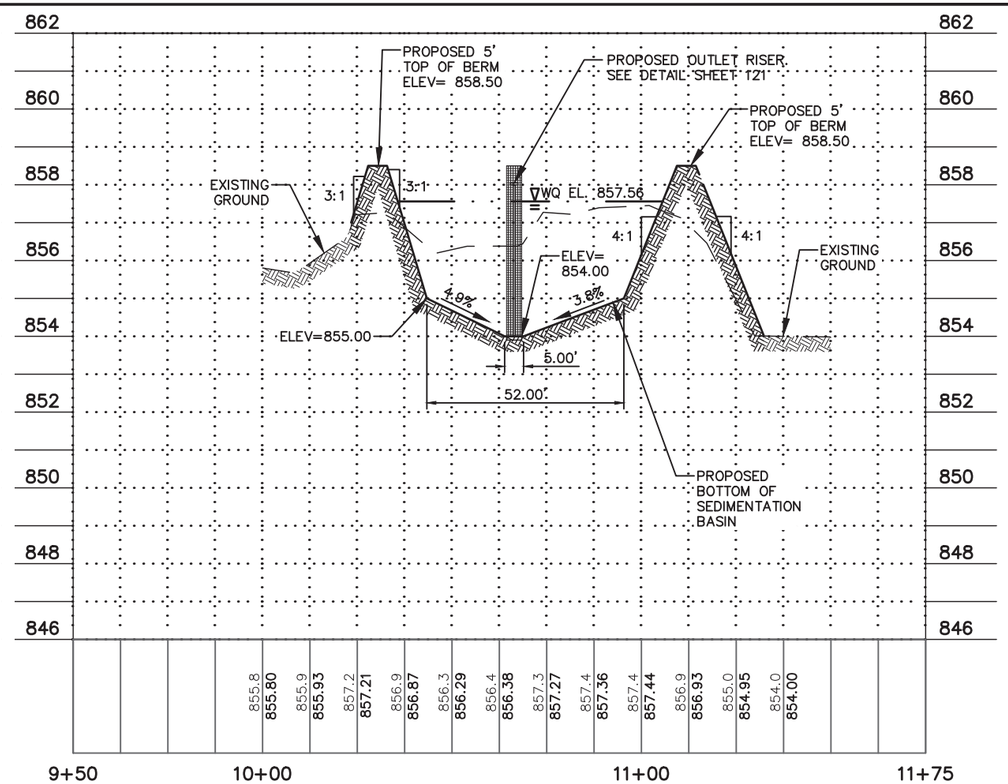


SED/FIL CROSS SECTION A-A

HORZ SCALE: 1"=40' VERT SCALE: 1"=4'

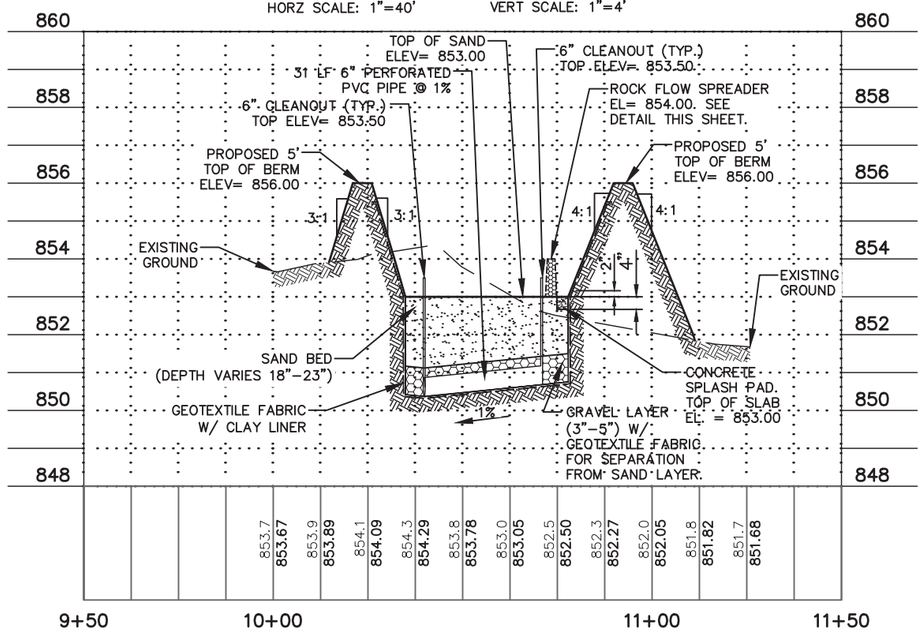


SEDIMENTATION BASIN CROSS SECTION B-B

HORZ SCALE: 1"=40'

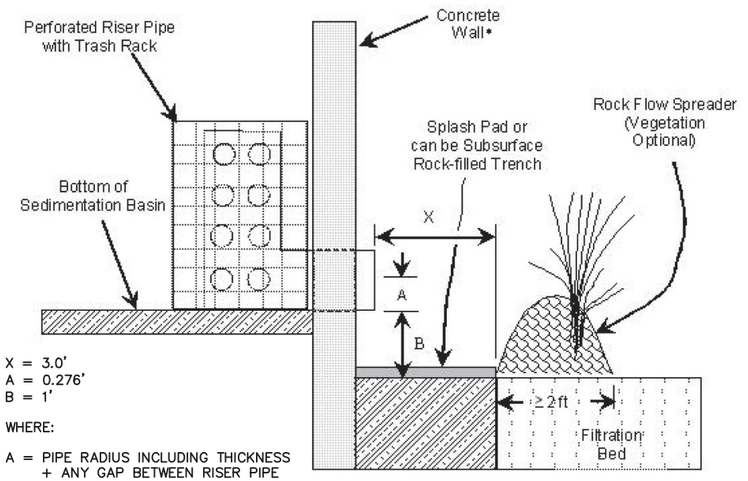
VERT SCALE: 1"=4'

NOTES:
1. THE WATER QUALITY ELEVATION IS 857.56
2. SEE SHEET 120 FOR LINER AND SAND BED CONFIGURATION SPECIFICATION AND DETAILS.
3. CONTRACTOR SHALL COMPLY WITH CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL SECTION 1.6.5. A GUIDELINES FOR SEDIMENTATION/FILTRATION SYSTEMS FOR ALL ELEMENTS OF POND2 WHICH IS A CITY OF AUSTIN MAINTAINED POND.
4. CONTRACTOR SHALL PROVIDE A SUBMITTAL FOR THE TRASH RACK.



FILTRATION BASIN CROSS SECTION C-C

HORZ SCALE: 1"=40' VERT SCALE: 1"=4'



X = 3.0'
A = 0.276'
B = 1'

WHERE:

A = PIPE RADIUS INCLUDING THICKNESS + ANY GAP BETWEEN RISER PIPE AND POND BOTTOM (FT).

B = ELEVATION DIFFERENCE BETWEEN BOTTOM OF SEDIMENTATION BASIN TOP OF FILTER (FT).

FILTRATION BASIN ROCK FLOW SPREADER DETAIL

N.T.S.

*NOTE: AN EARTHEN BERM IS PROPOSED IN LIEU OF A CONCRETE WALL

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WATER QUALITY SECTIONS – POND 2

SHEET 119 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				119

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APPENDIX R-2: FULL SED/FIL POND

FULL SEDIMENTATION/FILTRATION POND CALCULATIONS

FOR DEVELOPMENT PERMITS

Neenah Avenue,

PROPOSED POND 2

Legend
Not In Compliance
Do Not Modify Values

DRAINAGE AREA DATA:

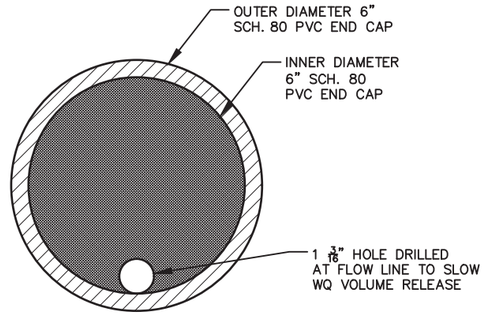
Drainage Area to Control (DA)		2.360	ac					
Drainage Area Impervious Cover		75.60%						
Capture Depth (CD) = (0.5+(IC-20)/100)		1.056	in					
WATER QUALITY CONTROL CALCULATIONS		Required			Provided			
25-year peak flow rate to control (Q25)		12.00	cfs		12.05	cfs		
100-year peak flow rate to control (Q100)		16.30	cfs					
The Water Quality Control is to be **FULL SEDIMENTATION FILTRATION**								
Water Qualtiy Volume (WQV=CD*DA*3630)	≥	9047	cf		10271	cf		
Maximum Ponding Depth in Sedimentation Pond (H) (above sand bed)					4.56	ft		
Sedimentation Pond Area (WQV/10)	≥	1027	sf		2652	sf		
Sedimentation Pond Volume (minimum=WQV)	≥	10271	cf		10271	cf		
Filtration Pond Area (WQV/(7+2.33*H)	≥	583	sf		602	sf		
Filtration Pond Volume (minimum 20% of WQV)	≥	2054	cf		3857	cf		
Full Sedimentation/Filtration Pond Drawdown Time (min 48)	≥	48	hrs		53	hrs		
Riser Orifice Diameter (D)					1.19	in		
Riser Orifice Area					1.108	sq in		
Water Quality Elevation					857.56			
Elevation of Splitter/Overflow Weir (min=WQV elevation)	≥	857.56	ft msl		857.56	ft msl		
Length of Splitter Weir					9.00	ft		
Required Head to Pass Q_{100} (maximum 1.0 ft)	≤	1.00	ft		0.66	ft		
Pond Freeboard Provided to Pass Q_{100} (minimum 0.25 ft)	≥	0.261	ft		0.278	ft		

Sedimentation pond

Stage (ft msl) (Elevation)	Area (sf)	Storage Volume (cf)
854.00	73.00	0
855.00	2,652.00	1,055
856.00	3,363.00	4,055
857.00	4,158.00	7,809
857.56	4,639.00	10,271

Filtration Pond

Stage (ft msl) (Elevation)	Area (sf)	Storage Volume (cf)
853.00	602.00	0
854.00	1,010.00	797
855.00	1,517.00	2,052
856.00	2,109.00	3,857



WQ OUTLET PVC CAP
(SCALE 1" = 4")

NOTES:
1. CONTRACTOR SHALL COMPLY WITH CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL SECTION 1.6.5. A GUIDELINES FOR SEDIMENTATION/FILTRATION SYSTEMS FOR ALL ELEMENTS OF POND2 WHICH IS A CITY OF AUSTIN MAINTAINED POND.
2. CONTRACTOR SHALL PROVIDE A SUBMITTAL FOR THE TRASH RACK.

8.4.17
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WATER QUALITY CALCULATIONS & DETAILS – POND 2

SHEET 120 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	–	14	WILLIAMSON				120

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Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Pond 2 - Neenah Avenue Project
Date Prepared: 8/7/2016

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 — Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where:
$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County =	Williamson	
Total project area included in plan * =	2.36	acres
Predevelopment impervious area within the limits of the plan * =	0.00	acres
Total post-development impervious area within the limits of the plan* =	1.76	acres
Total post-development impervious cover fraction * =	0.75	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	1532	lbs.

* The values entered in these fields should be for the total project area.

Number of drainage basins / outfalls areas leaving the plan area = 1

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area =	2.36	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	1.76	acres
Post-development impervious fraction within drainage basin/outfall area =	0.75	
$L_{M\ THIS\ BASIN}$ =	1532	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Sand Filter
Removal efficiency = 89 percent

Aqualogic Cartridge Filter
Bioretention
Contech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Irrigation
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortechs
Wet Basin
Wet Vault

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

where:
A_C = Total On-Site drainage area in the BMP catchment area
A_I = Impervious area proposed in the BMP catchment area
A_P = Pervious area remaining in the BMP catchment area
L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	2.36	acres
A_I =	1.76	acres
A_P =	0.60	acres
L_R =	1744	lbs

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired $L_{M\ THIS\ BASIN}$ = 1532 lbs.

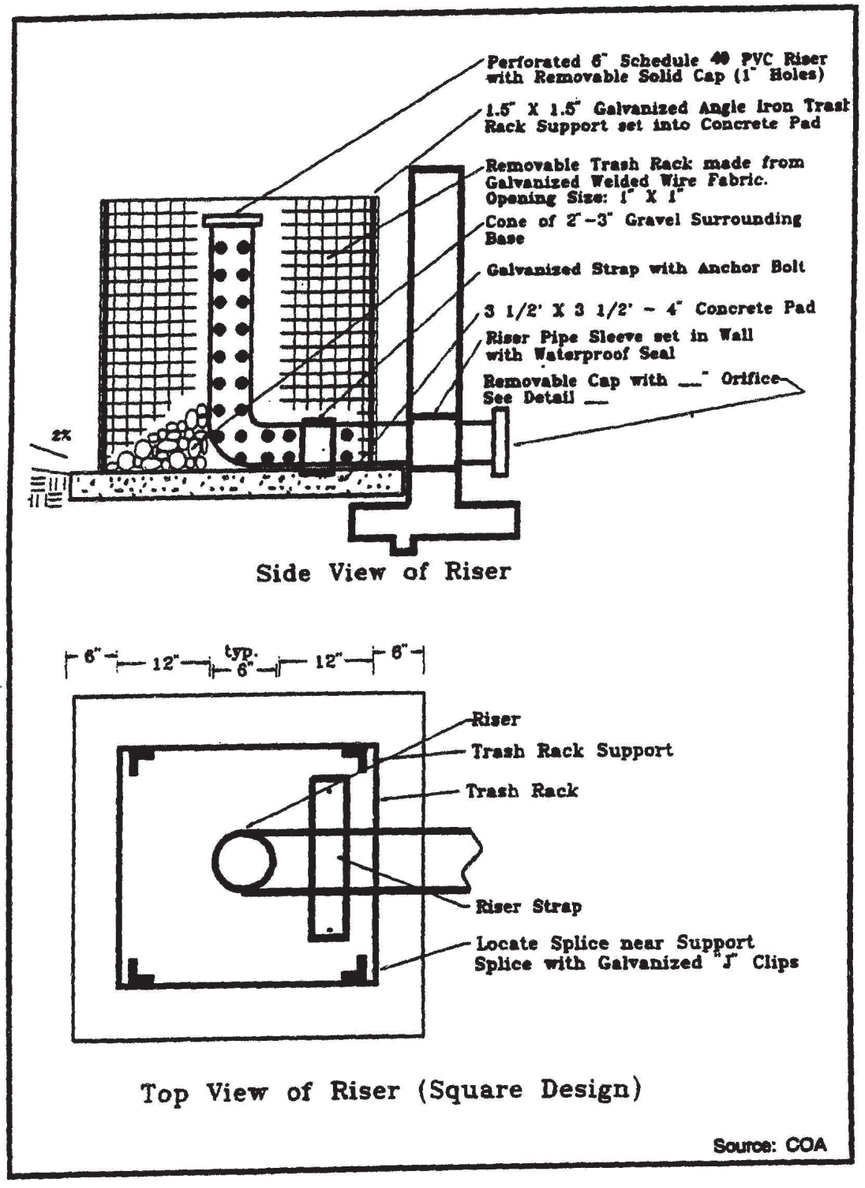
F = 0.88

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 — Pages 3-34 to 3-36

Rainfall Depth =	1.50	inches
Post Development Runoff Coefficient =	0.56	
On-site Water Quality Volume =	7132	cubic feet

Calculations from RG-348 — Pages 3-36 to 3-37

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	1426	
Total Capture Volume (required water quality volume(s) x 1.20) =	8559	cubic feet



NOTES:
1. CONTRACTOR SHALL COMPLY WITH CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL SECTION 1.6.5. A GUIDELINES FOR SEDIMENTATION/FILTRATION SYSTEMS FOR ALL ELEMENTS OF POND2 WHICH IS A CITY OF AUSTIN MAINTAINED POND.
2. CONTRACTOR SHALL PROVIDE A SUBMITTAL FOR THE TRASH RACK.

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WATER QUALITY CALCULATIONS & DETAILS – POND 2

SHEET 121 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				121

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SP-2016-0186D

FOR SEDIMENTATION AND FILTRATION PONDS

A CLAY LINER SHALL BE USED TO LINE THE FILTRATION BASIN.

THE CLAY LINER SHALL MEET THE FOLLOWING SPECIFICATIONS:

PROPERTY	TEST METHOD	UNIT	SPECS.
PERMEABILITY	ASTM D-2434	Cm/Sec	1×10^{-7}
PLASTICITY INDEX OF CLAY	ASTM D-423 & D-424	UNITLESS	NOT LESS THAN 15
LIQUID LIMIT OF CLAY	ASTM D-2216	UNITLESS	NOT LESS THAN 30
CLAY PARTICLES PASSING	ASTM D-422	%	NOT LESS THAN 30
CLAY COMPACTION	ASTM D-2216	%	95% OF STANDARD PROCTOR DENSITY

THE CLAY LINER SHALL HAVE A MINIMUM THICKNESS OF 12 INCHES.

THE GEOTEXTILE FABRIC SHALL MEET THE FOLLOWING SPECIFICATIONS:

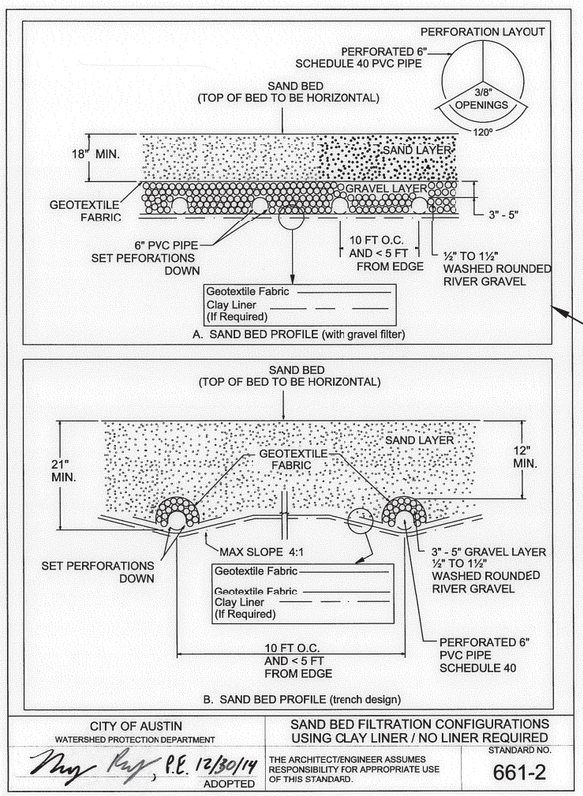
SAND BED AND GEOTEXTILE FABRIC

FIRST (TOP) LAYER– FINE SAND, 0.02–0.04 INCH 18 INCH DEPTH

SECOND LAYER– GRAVEL, 1/2–1 INCH, AT LEAST 1 INCH DEPTH TO 2 INCH DEPTH SURROUNDING UNDERDRAIN PIPING

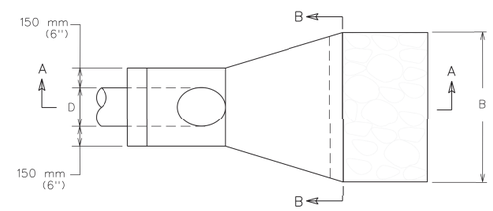
THE TWO LAYERS MUST BE SEPARATED FROM EACH OTHER USING SUITABLE GEOTEXTILE FABRIC MEETING THE FOLLOWING SPECIFICATIONS:

PROPERTY	TEST METHOD	UNIT	SPECS.
FABRIC WEIGHT	ASTM D-3376	OZ/SQ.YD.	≥3
UV RADIATION STABILITY	ASTM D-4355	--	70% STRENGTH RETAINED MIN., AFTER 500 HRS IN XENON ARC DEVICE
MULLEN BURST STRENGTH	ASTM D-3786	PSI.	≥120
WATER FLOW RATE	ASTM D-4491	GPM/FT	≥275

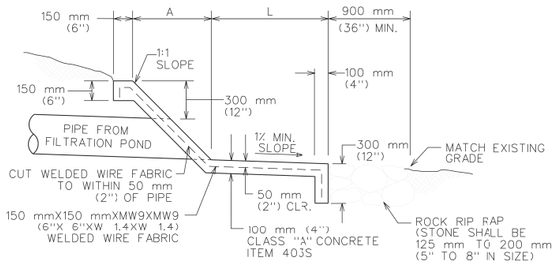


USE CONFIGURATION A

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	SAND BED FILTRATION CONFIGURATIONS USING CLAY LINER / NO LINER REQUIRED	
P.E. 12/30/14 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 661-2

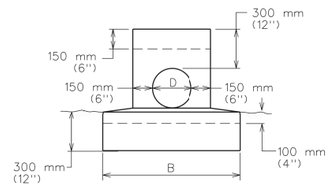


PLAN



SECTION A - A

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	HEADWALL FOR FILTRATION PONDS W/OUTFALL PIPE 150 mm (6") TO 375 mm (15") DIA.	
RECORD COPY SIGNED BY GEORGE E. OSWALD 3/15/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-15 1 OF 2



SECTION B - B

A	450 mm (18")	500 mm (20")	550 mm (22")	600 mm (24")	675 mm (27")
B	750 mm (30")	800 mm (32")	850 mm (34")	1.05 m (42")	1.27 m (51")
D	150 mm (6")	200 mm (8")	250 mm (10")	300 mm (12")	375 mm (15")
L	600 mm (24")	600 mm (24")	750 mm (30")	900 mm (36")	1.2 m (48")

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	HEADWALL FOR FILTRATION PONDS W/OUTFALL PIPE 150 mm (6") TO 375 mm (15") DIA.	
RECORD COPY SIGNED BY GEORGE E. OSWALD 3/15/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-15 2 OF 2

NOTES:
1. CONTRACTOR SHALL COMPLY WITH CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL SECTION 1.6.5. A GUIDELINES FOR SEDIMENTATION/FILTRATION SYSTEMS FOR ALL ELEMENTS OF POND2 WHICH IS A CITY OF AUSTIN MAINTAINED POND.
2. CONTRACTOR SHALL PROVIDE A SUBMITTAL FOR THE TRASH RACK.

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

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WATER QUALITY DETAILS – POND 2

SHEET 122 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				122

SP-2016-0186D

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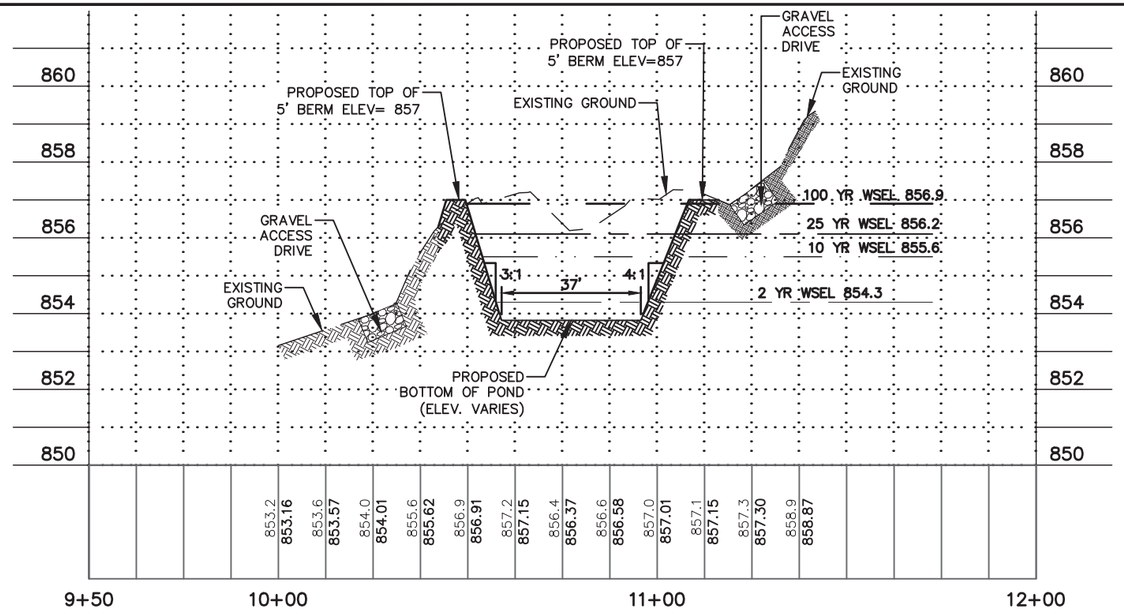
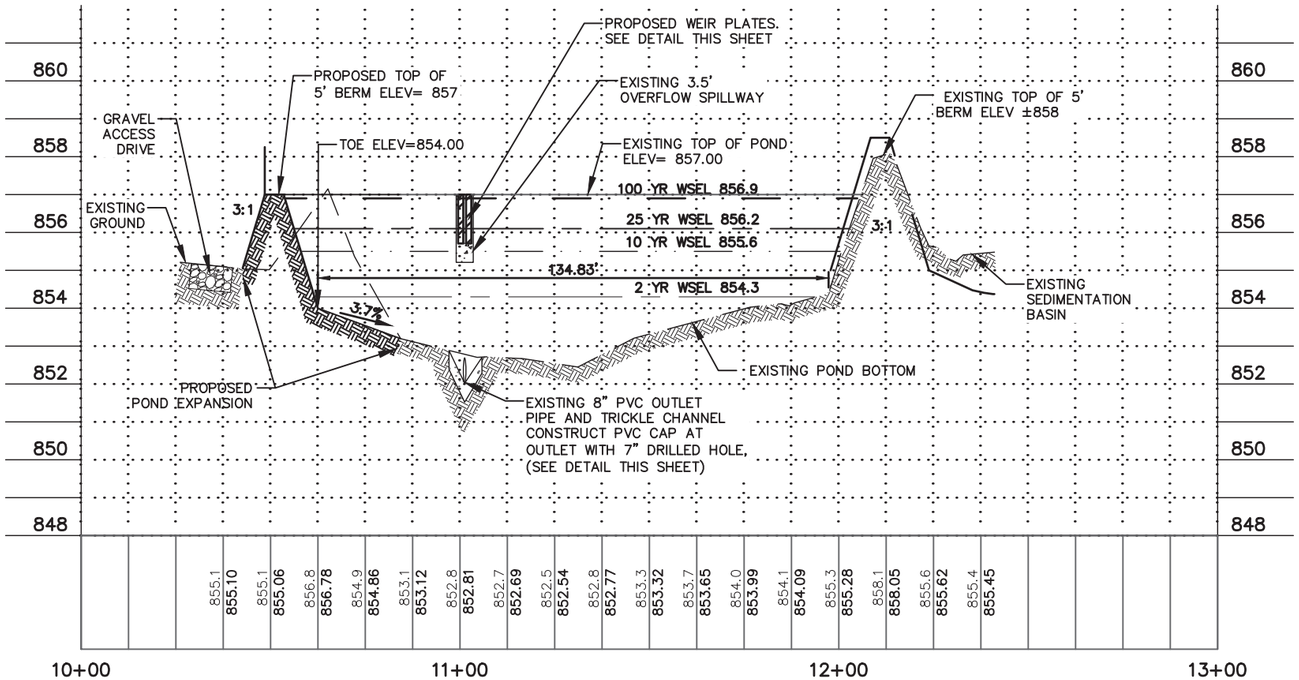


DETENTION POND CROSS SECTION D–D

HORZ SCALE: 1"=40'

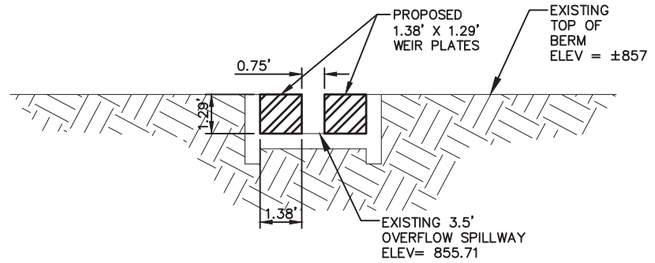
VERT SCALE: 1"=4'



DETENTION POND CROSS SECTION E–E

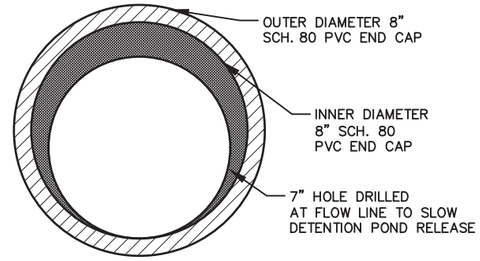
HORZ SCALE: 1"=40'

VERT SCALE: 1"=4'



PROPOSED WEIR PLATES

(SCALE 1" = 5')



DETENTION OUTLET PVC CAP

(N.T.S.)

NOTES:
1. CONTRACTOR TO SUBMIT PLANS FOR ATTACHING WEIR PLATES TO EXISTING CONCRETE STRUCTURE FOR REVIEW PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL COMPLY WITH CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL SECTION 1.6.5. A GUIDELINES FOR SEDIMENTATION/FILTRATION SYSTEMS FOR ALL ELEMENTS OF POND2 WHICH IS A CITY OF AUSTIN MAINTAINED POND.
3. CONTRACTOR SHALL PROVIDE A SUBMITTAL FOR THE TRASH RACK.

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
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DETENTION SECTIONS – POND 2

SHEET 123 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				123

SP-2016-0186D

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Detention Summary

Storm Event (Year)	Allowable Peak Outflow* (cfs)	Existing Peak Inflow (cfs)	Existing Peak Outflow (cfs)	Existing Peak WSEL (ft)	Proposed Peak Inflow (cfs)	Proposed Peak Outflow (cfs)	Proposed Peak WSEL (ft)
2	1.9	4.0	1.9	853.7	5.6	1.8	854.3
10	3.1	8.0	2.7	854.9	10.5	2.3	855.6
25	4.0	10.3	3.0	855.5	13.3	3.3	856.2
100	5.9	14.2	6.4	856.2	18.1	5.8	856.9

*Results obtained from Davis Spring Section 5D-Offsite Neenah Avenue Extension (SP-85-029.010.4B)

Pond 2 Stage-Storage Table

Stage			Storage		Discharge		
Elevation (ft)	Depth (ft)	Area (sf)	Inc. Volume (cf)	Cum.Volume (cf)	Elevation (ft)	Flow (cfs)	Storm Event (year)
852	0	99	0	0			
853	1	1930	1014.5	1014.5			
854	1	5027	3478.5	4493	854.3	1.8	2 yr
855	1	6349	5688	10181	855.6	2.3	10 yr
856	1	7799	7074	17255	856.2	3.3	25 yr
857	1	9343	8571	25826	856.9	5.8	100 yr

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
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DETENTION CALCULATIONS – POND 2

SHEET 124 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				124

SP-2016-0186D

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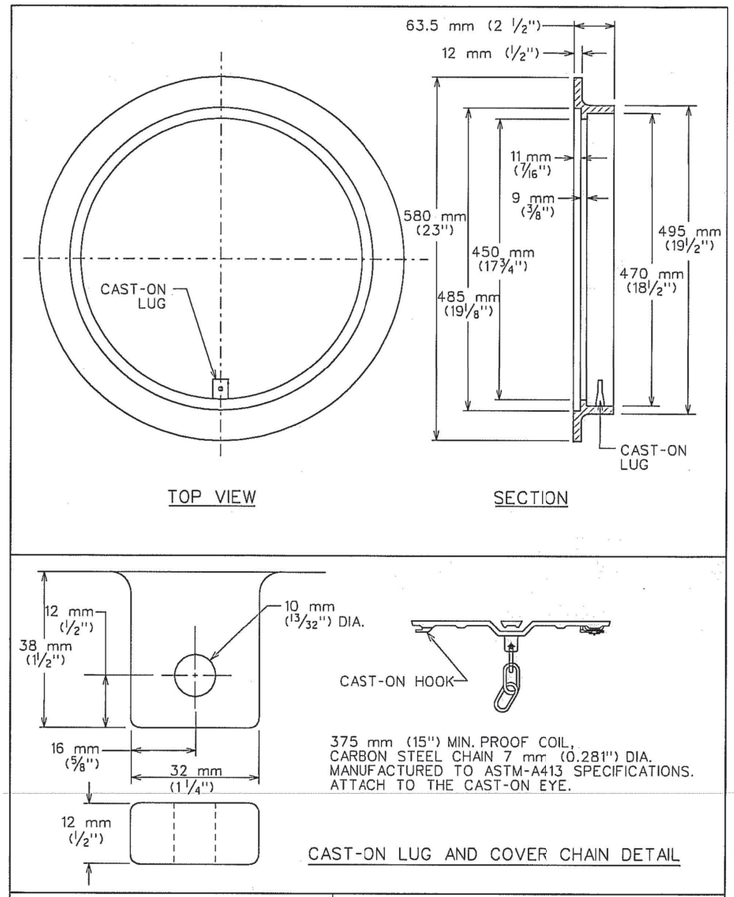
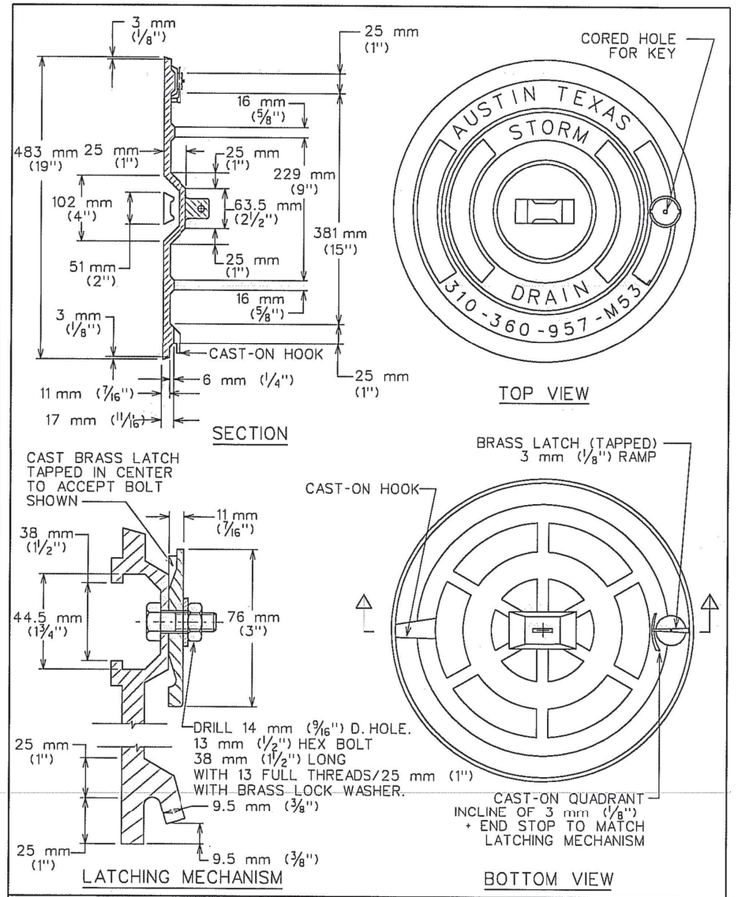
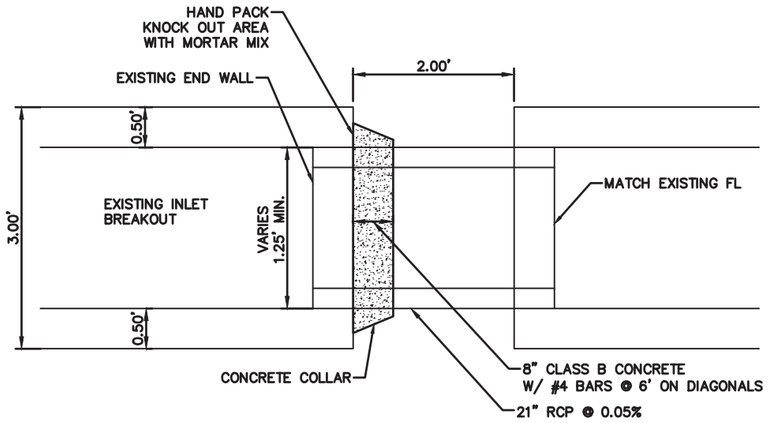


CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	457 mm (18") COVER AND FRAME	
George E. Oswald 2/14/02 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 503S-1 1 OF 2



CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	457 mm (18") COVER AND FRAME	
George E. Oswald 2/14/02 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 503S-1 2 OF 2



CURB INLET CONNECTION DETAIL
NTS

NOTES:
1. CONNECTION TO EXISTING INLET SHALL BE CONSIDERED SUBSIDIARY TO THE CONSTRUCTION OF THE PROPOSED CURB INLET.
2. REWORKING THE INVERT OF THE EXISTING INLET SHALL BE CONSIDERED SUBSIDIARY TO THE CONSTRUCTION OF THE PROPOSED CURB INLET.

8.4.17
STATE OF TEXAS
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DRAINAGE DETAILS 1

SHEET 125 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				125

SP-2016-0186D

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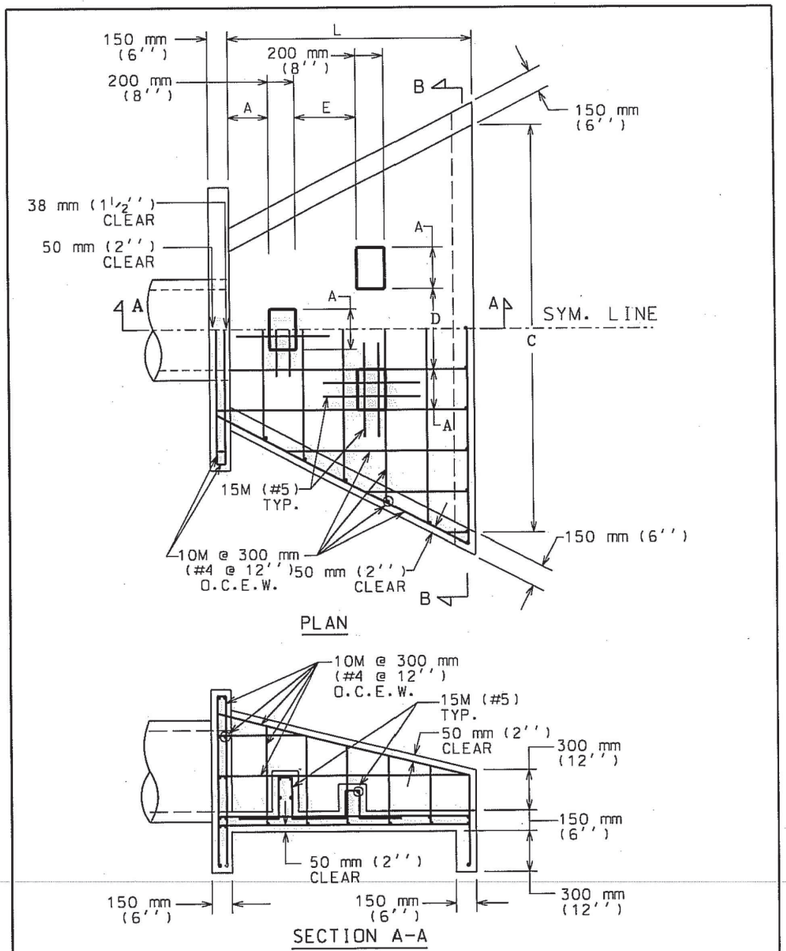
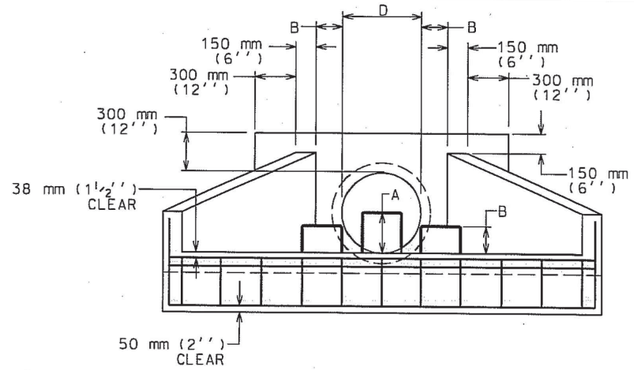


CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	STANDARD HEADWALL AND ENERGY DISSIPATORS	
Bill Gardner 8/20/07 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-13 1 OF 2



SECTION B-B

NOTES:

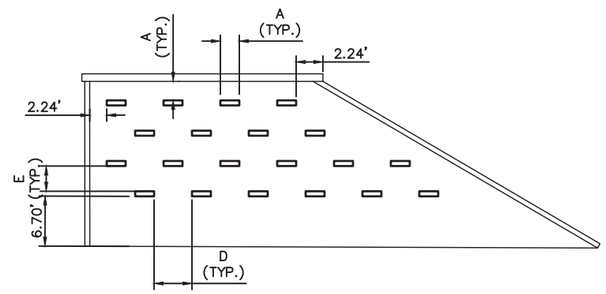
1. ALL CONCRETE SHALL BE TYPE "C" AS PER SPEC. 403S. CONCRETE FOR STURCTURES.
2. CHAMFER ALL EXTERNAL VISIBLE CORNERS.
3. DISSIPATOR BLOCKS REQUIRED ON DISCHARGE HEADWALLS ONLY.

D	457 mm (18'')	533 mm (21'')	610 mm (24'')	685 mm (27'')	765 mm (30'')	838 mm (33'')	914 mm (36'')	1.067 m (42'')	1.219 m (48'')	1.372 m (54'')	.524 m (60'')
A	225 mm (9'')	250 mm (10'')	300 mm (12'')	350 mm (14'')	375 mm (15'')	400 mm (16'')	450 mm (18'')	525 mm (21'')	600 mm (24'')	675 mm (27'')	750 mm (30'')
B	150 mm (6'')	175 mm (7'')	200 mm (8'')	225 mm (9'')	250 mm (10'')	275 mm (11'')	300 mm (12'')	350 mm (14'')	400 mm (16'')	450 mm (18'')	500 mm (20'')
C	2.29 m (90'')	2.67 m (105'')	3.05 m (120'')	343 m (135'')	3.81 m (150'')	4.19 m (165'')	4.57 m (180'')	5.33 m (210'')	6.10 m (240'')	6.86 m (270'')	7.62 m (300'')
L	1.37 m (54'')	1.60 m (63'')	1.83 m (72'')	2.06 m (81'')	2.29 m (90'')	2.51 m (99'')	2.74 m (108'')	3.20 m (126'')	3.66 m (144'')	4.11 m (162'')	4.57 m (180'')
E	300 mm (12'')	350 mm (14'')	400 mm (16'')	450 mm (18'')	500 mm (20'')	550 mm (22'')	600 mm (24'')	700 mm (28'')	800m (32'')	900 mm (36'')	1000 mm (40'')

DIMENSIONS IN MILLIMETERS, METERS AND (INCHES).

DISCHARGE VELOCITIES GREATER THAN 3 METERS/SECOND (10 fps) REQUIRE ROCK OUTLET PROTECTION.

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	STANDARD HEADWALL AND ENERGY DISSIPATORS	
Bill Gardner 8/20/07 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-13 2 OF 2



ENERGY DISSIPATORS DETAIL
NTS

NOTE: DIMENSION AND SPACING OF ENERGY DISSIPATORS TO FOLLOW COA DETAIL 508S-13 FOR A 60" PIPE DIAMETER.

8-4-17
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DRAINAGE DETAILS 2

SHEET 126 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				126

SP-2016-0186D

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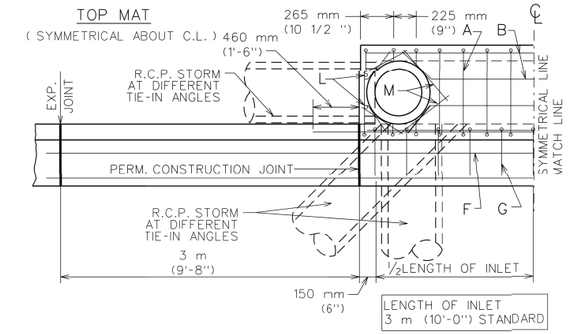
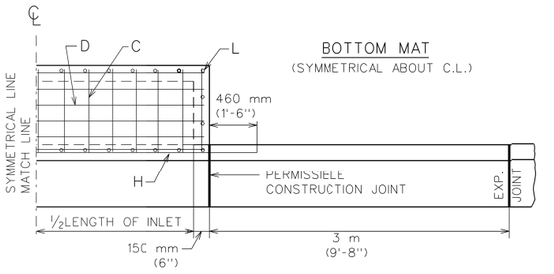
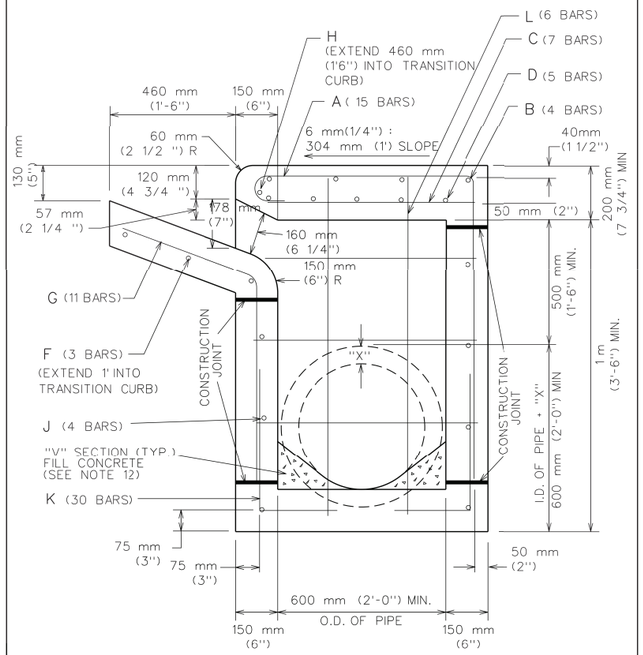


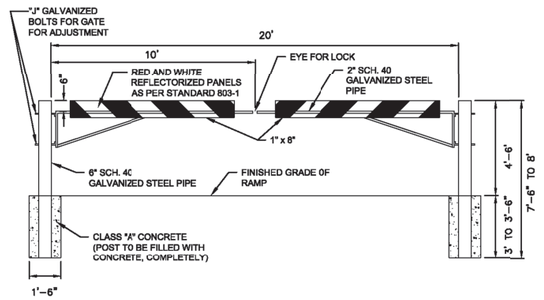


CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL DETAILS FOR CURB INLET	
RECORD COPY SIGNED BY BILL GARDNER 12/09/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 1 OF 4



ELEVATION - SECTION

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL DETAILS FOR CURB INLET	
RECORD COPY SIGNED BY BILL GARDNER 12/09/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 2 OF 4



NOTE:
RAMP BARRICADE SUBSIDIARY
TO ITEM 403-G CONCRETE STRUCTURES

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	POND PIPE GATE AT RAMP DETAIL	
ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 662S-1

8.4.17
STATE OF TEXAS
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DRAINAGE DETAILS 3

SHEET 127 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				127

SP-2016-0186D

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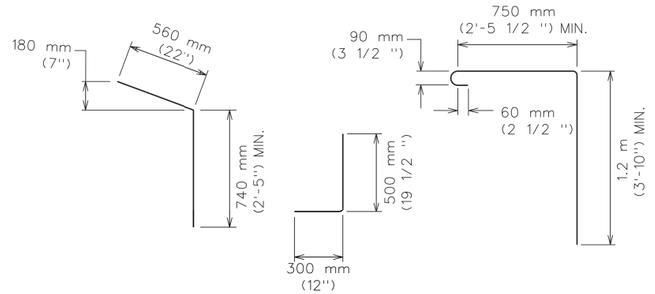
TABLE OF QUANTITIES
FOR 18" OUTLET PIPE
REINFORCING STEEL QUANTITIES

BARS	SIZE	SPACING	NUMBER	LENGTH	WEIGHT
A	4	230mm (9")×	15	2 m (7'-0")	73
B	4	250 mm (10")	4	3.25 m (10'-8")	29
C	4	460 mm (18")	7	760 mm (2'-6")	12
D	6	150 mm (6")	5	3.25 m (10'-8")	80
E	4	300 mm (12")	6	760 mm (2'-6")	10
F	4	250 mm (10")	3	4 m (13'-0")	35
G	4	300 mm (12")	11	1.25 m (4'-3")	31
H	6	-	1	4.25 m (14'-0")	20
J	4	300 mm (12")	7	3.25 m (10'-8")	50
K	4	230 mm (9")×	30	800 mm (2'-7 1/2")	52
L	4	300 mm (12")×	6	1.3 m (4'-4")	17
M	4	-	4	500 mm (1'-8") AVG	4
TOTAL STEEL, LB.					413
TOTAL CONCRETE, C.Y.					4.06

× EXCEPT AS SHOWN ON PLAN



BAR G BAR K BAR A

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL DETAILS FOR CURB INLET	
RECORD COPY SIGNED BY BILL GARDNER *12/09/08* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 3 OF 4

NOTES:
1. ALL CONCRETE SHALL BE CLASS "A"
2. ALL REINFORCING STEEL SHALL BE GRADE 60
3. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
4. VERTICAL STEEL MAY BE SPLICED (380 mm or 15" MIN. LAP) IN THE LOWER ONE-HALF OF ALL INLET WALLS.5. IN AREAS OF CONFLICT BETWEEN REINFORCING STEEL, PIPES AND MANHOLE FRAME, THE REINFORCEMENT SHALL BE BENT OR ADJUSTED TO CLEAR AS DIRECTED BY THE ENGINEER.
6. QUANTITIES SHOWN HEREON ARE FOR THE CONTRACTOR'S INFORMATION ONLY. PAYMENT WILL BE MADE FOR EACH INLET OF THE TYPE SPECIFIED, COMPLETE IN PLACE INCLUDING MANHOLE FRAME AND OVER.
7. CHAMFER ALL EXPOSED EDGES 20 mm (3/4 ").
8. MANHOLE FRAME AND COVER SHALL BE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD 503S-1.
9. THE CONTRACTOR MAY PROPOSE ALTERNATE PROCEDURES FOR THE CONSTRUCTION OF INLETS, INCLUDING PRECAST UNITS. PLANS FOR SUCH PROPOSED ALTERNATES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION.
10. ALL INLET WALLS SHALL BE FORMED EXCEPT WHERE THE NATURE OF THE SURROUNDING MATERIAL IS SUCH THAT IT CAN BE TRIMMED TO A SMOOTH VERTICAL FACE. WHEN INLET WALLS ARE PLACED TO NEAT EXCAVATION LINES THE WALL THICKNESS SHALL NOT EXCEED 10 INCHES.
11. PAYMENT FOR INLET AT THE CONTRACT PRICE SHALL INCLUDE THE TRANSITION CURB.
12. INVERT OF INLET SHALL BE SLOPED 1:20 WITH FILL CONCRETE, SHAPED AS "V" SECTION
13. NO SPLICING OF REINFORCING STEEL SHALL BE PERMITTED UNLESS OTHERWISE NOTED ON THE PLANS OR PERMITTED IN WRITING BY THE ENGINEER.

REFERENCES:

FOR EXPANSION JOINT DOWEL AND DOWEL LOCATION DETAILS
SEE STD. 430S-3, "CURB EXPANSION JOINT DOWEL DETAIL".

FOR 18" MANHOLE FRAME AND COVER DETAILS
SEE STD. 503S-1, "18" COVER AND FRAME".

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL DETAILS FOR CURB INLET	
RECORD COPY SIGNED BY BILL GARDNER *12/09/08* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 4 OF 4

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
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DRAINAGE DETAILS 4

SHEET 128 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				128

SP-2016-0186D

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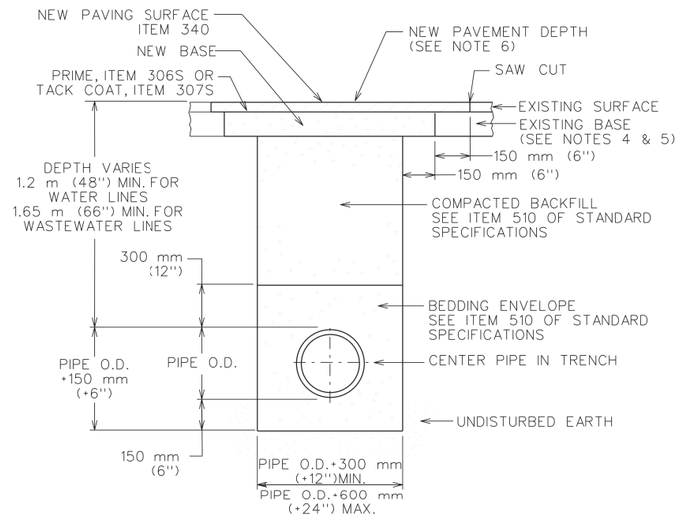
THIS DETAIL FOR USE ONLY ON CITY OF AUSTIN C.I.P. PROJECTS.



NOTES:

1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE A MINIMUM OF 300 mm (12") WIDER THAN THE UNDISTURBED SIDES OF THE TRENCH, SYMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
2. ANY CONCRETE PAVING SHALL BE SAW CUT 150 mm (6") WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
3. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX OR TEMPORARY HOT MIX ASPHALTIC CONCRETE.
4. ROAD BASE AND SURFACE MATERIALS IN THE TRENCH CUT SHALL BE REPLACED IN KIND OR EQUAL THICKNESS, OR MINIMUM BASE THICKNESS OF 250 mm (10"), WHICHEVER IS GREATER.
5. ALL DAMAGED AREAS OF PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH MINIMUM OF 200 mm (8") OF BASE OR MATCH EXISTING THICKNESS, WHICHEVER IS GREATER.
6. SURFACE PAVEMENT SHALL BE OF THE KIND AND THICKNESS AS EXISTING, OR MINIMUM 50 mm (2"), WHICHEVER IS GREATER.

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	TYPICAL TRENCH WITH PAVED SURFACE	
RECORD COPY SIGNED BY KATHI L.FLOWERS 8/19/02 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 510S-3

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
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DRAINAGE DETAILS 5

SHEET 129 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				129

SP-2016-0186D

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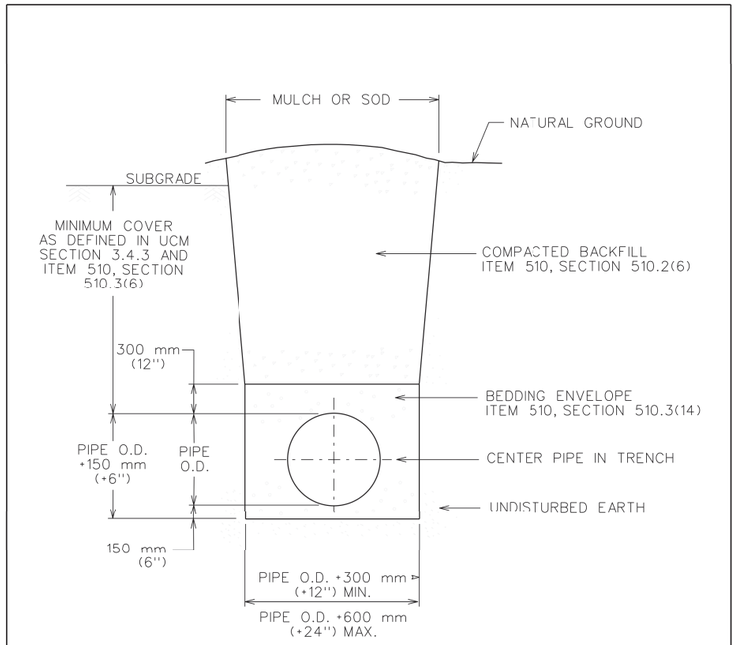
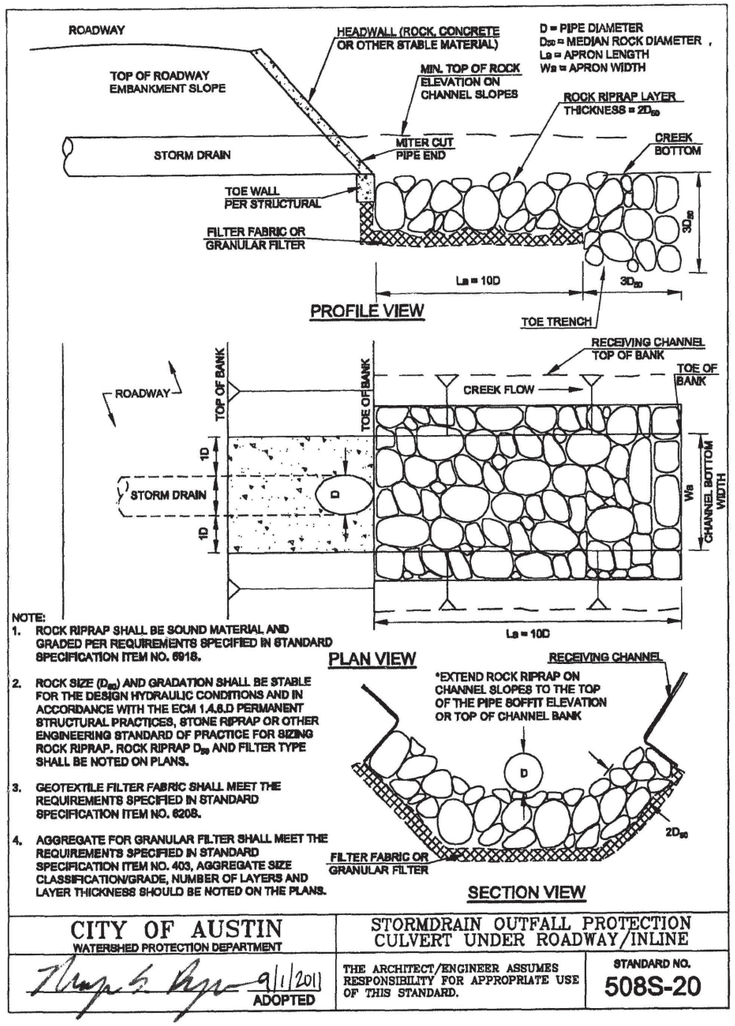


REFERENCES:

1. UTILITY CRITERIA MANUAL SECTION 3.4.3, "FINAL DESIGN"
2. STANDARD SPECIFICATION MANUAL ITEM 510,
   SECTION 510.2(6), "SELECT BACKFILL OR BORROW";
   SECTION 510.3(6), "TRENCH DEPTH AND DEPTH OF COVER";
   SECTION 510.3(14), "PIPE BEDDING ENVELOPE"

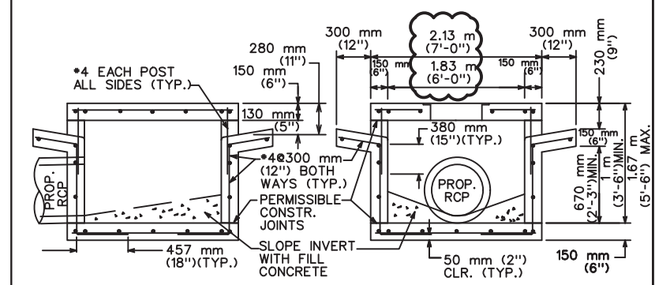
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL TRENCH DETAIL WITH UNFINISHED SURFACE	
RECORD COPY SIGNED BY BILL GARDNER	*03/13/06* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 510S-5



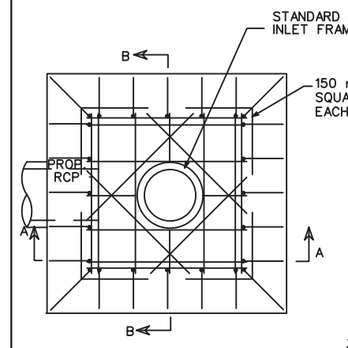
NOTE:
1. ROCK RIPRAP SHALL BE SOUND MATERIAL AND GRADED PER REQUIREMENTS SPECIFIED IN STANDARD SPECIFICATION ITEM NO. 6916.
2. ROCK SIZE (D_{50}) AND GRADATION SHALL BE STABLE FOR THE DESIGN HYDRAULIC CONDITIONS AND IN ACCORDANCE WITH THE ECM 1.4.6.D PERMANENT STRUCTURAL PRACTICES, STONE RIPRAP OR OTHER ENGINEERING STANDARD OF PRACTICE FOR SIZING ROCK RIPRAP. ROCK RIPRAP D_{50} AND FILTER TYPE SHALL BE NOTED ON PLANS.
3. GEOTEXTILE FILTER FABRIC SHALL MEET THE REQUIREMENTS SPECIFIED IN STANDARD SPECIFICATION ITEM NO. 6208.
4. AGGREGATE FOR GRANULAR FILTER SHALL MEET THE REQUIREMENTS SPECIFIED IN STANDARD SPECIFICATION ITEM NO. 403, AGGREGATE SIZE CLASSIFICATION/GRADE, NUMBER OF LAYERS AND LAYER THICKNESS SHOULD BE NOTED ON THE PLANS.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		STORMDRAIN OUTFALL PROTECTION CULVERT UNDER ROADWAY/INLINE	
Stephanie D Blew 9/1/2011	ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-20

NOTE: USE 60" PIPE INNER DIAMETER FOR ROCK SIZE.



ELEVATION–SECTION A–A ELEVATION–SECTION B–B



NOTES:

1. CHAMFER ALL EXPOSED EDGES 20 mm (3/4").
2. REINFORCING STEEL SHALL BE CUT OR FIELD-BENT AS REQUIRED TO CLEAR PIPE AND INLET FRAME OPENING. ALL CUT STEEL SHALL BE REPLACED WITH ADDITIONAL DIAGONAL BARS OF THE SAME DIAMETER.
3. INLET FRAME AND COVER SHALL BE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD 503S-1.
4. CONCRETE COVERAGE OF STEEL SHALL BE 50 mm (2") MIN. AT ALL SURFACES.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		4–SIDED AREA INLET (MODIFIED)	
RECORD COPY SIGNED BY ARTHUR C. ROMERO 08/18/2010	ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-9

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
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LICENSED
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Stephanie D Blew

NEENAH AVENUE WIDENING

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DRAINAGE DETAILS 6

SHEET 130 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				130

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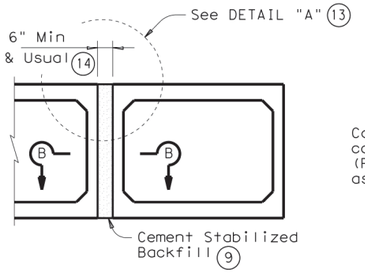
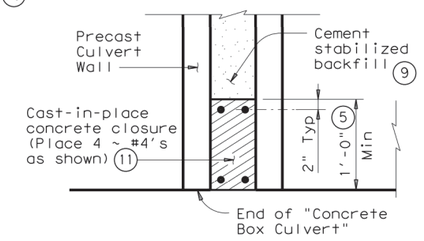
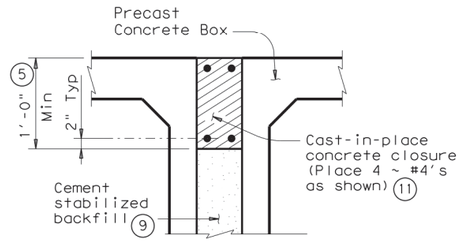


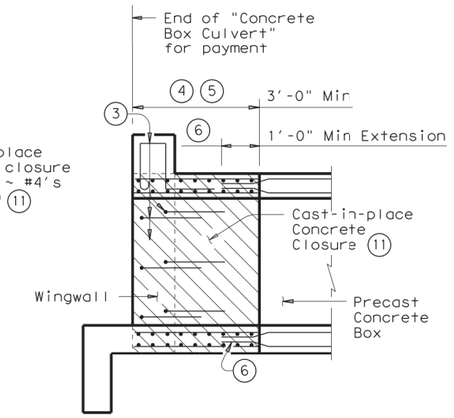
MULTIPLE UNIT PLACEMENT



SECTION B-B

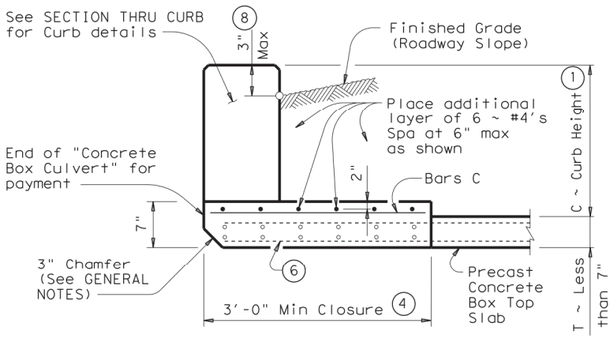


DETAIL "A" (13)

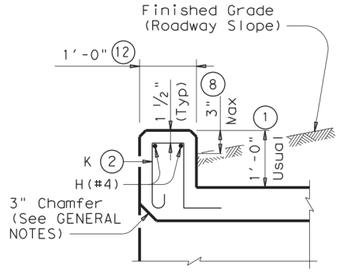


WINGWALL CONNECTION

(Also applies to Safety End Treatment)

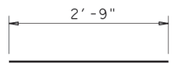


SECTION THRU TOP SLABS LESS THAN 7"

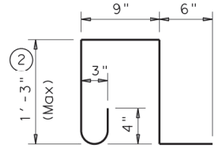


SECTION THRU CURB

(10) QUANTITIES PER FOOT OF CURB	
Reinforcing Steel	4.18 Lb
Concrete	0.037 CY



BARS C ~ #4
(Spa = 1'-0" Max)



BARS K ~ #4
(Spa = 1'-0" Max)
(Length = 4'-3")

(1) 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with T6 traffic rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.

(2) For curbs less than 1'-0" high, tilt Bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, Bars K may be omitted.

(3) Curb, Wingwall or Safety End Treatment reinforcing shall extend into concrete closure. Any reinforcing that does not fit into the closure shall be bent or trimmed as necessary.

(4) Cast-in-place concrete closure shall be 3'-0" min. Boxes shall be cast short or broken back in the field. All reinforcing in the closure shall be the same size and spacing as in the precast box section. Except where shown otherwise, the cast-in-place closure shall be flush with the inside and outside faces of the precast box section.

(5) For multiple unit placements the length of the closure for the interior walls may be adjusted as necessary. The length of the top slab, bottom slab, and exterior wall closure shall not be less than 3'-0". See Section B-B detail when interior walls are cast full length.

(6) Precast box reinforcing shall extend a minimum of 1'-0" into concrete closure (Typ).

(7) Bands of reinforcing matching the inside and outside face reinforcing shall be placed in the gaps of the top and bottom slabs. A band matching the outside face reinforcing of the wall shall be placed in the gaps of the walls (placed in the outside face only). The bands shall be tack welded to the exposed reinforcing at each point of contact.

(8) For vehicle safety, the following requirements must be met:
- For structures without bridge rail, curbs shall project no more than 3" above finished grade.
- For structures with bridge rail, curbs shall be flush with finished grade.

Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

(9) Cement Stabilized Backfill between boxes is considered part of the Box Culvert for payment.

(10) All curb concrete and reinforcing is considered part of the Box Culvert for payment.

(11) Any additional concrete and reinforcing required for the closures shall be considered as subsidiary to the Concrete Box Culvert.

(12) 1'-0" typical. 2'-0" when RAC standard is referred to elsewhere in the plans.

(13) For multiple unit placement with overlay, with 1 to 2 course surface treatment, or with the top slab as the final riding surface, provide wall closure as shown in DETAIL "A".

(14) This dimension may be increased with approval of the Engineer to allow the precast boxes to be tunneled or jacked in accordance with Item 476, "Jacking, Boring, or Tunneling Pipe or Box". No payment will be made for any additional material in the gap between adjacent boxes.

GENERAL NOTES:

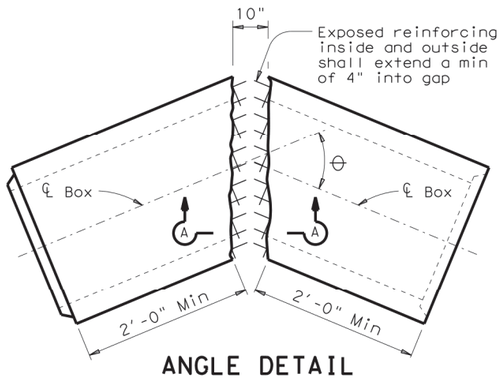
Designed according to AASHTO LRFD Specifications.

All closure concrete shall be Class "C" with a minimum compressive strength of 3600 psi and shall be placed according to the Item, "Concrete Structures".

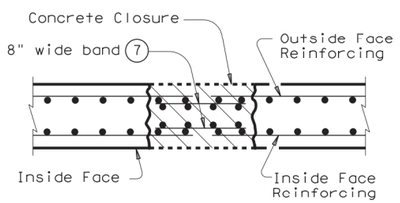
Any additional concrete required for the closures shall be considered as subsidiary to the Concrete Box Culvert.

Refer to the Single Box Culverts Precast standard for details not shown.

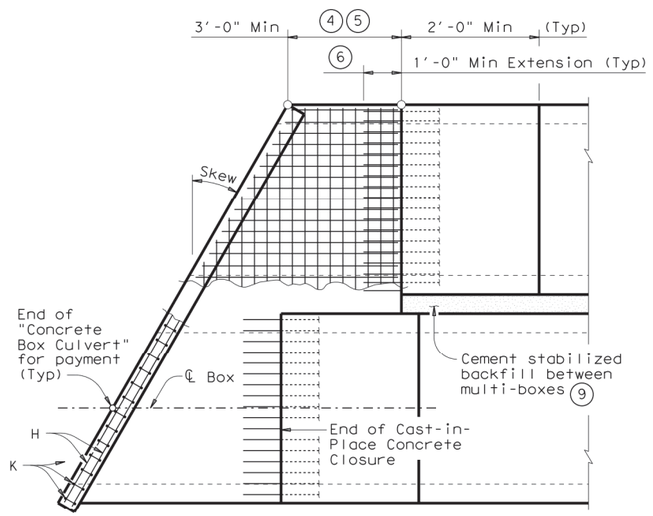
The bottom edge of the top slab closure shall be chamfered 3 inches at the entrance.



ANGLE DETAIL



SECTION A-A



PLAN OF SKEWED ENDS

(Showing multi-box placement)

HL93 LOADING

Texas Department of Transportation | Bridge Division Standard

BOX CULVERTS PRECAST MISCELLANEOUS DETAILS

SCP-MD

FILE: scpmdste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.
				131

DATE:
FILE:

Bid 1710-194

BOX DATA

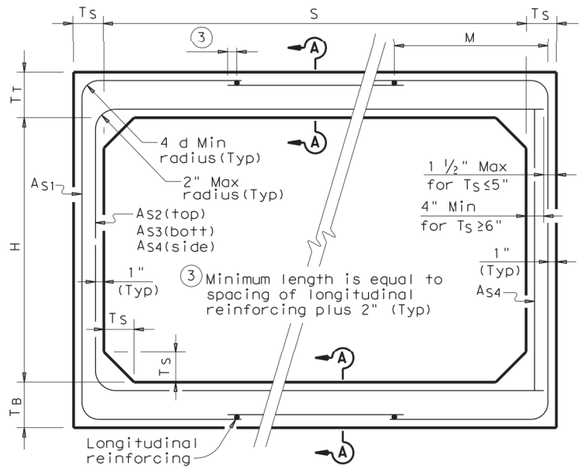
SECTION DIMENSIONS					Fill Height	M (Min)	REINFORCING (in²/ft) ②								① Lift Weight (Tons)
S (ft)	H (ft)	T_T (in)	T_B (in)	T_S (in)	(ft)	(in)	A_{S1}	A_{S2}	A_{S3}	A_{S4}	A_{S5}	A_{S6}	A_{S7}	A_{S8}	
5	3	8	7	6	<2	-	0.19	0.31	0.21	0.14	0.19	0.19	0.19	0.17	6.6
5	3	6	6	6	2<3	45	0.18	0.24	0.19	0.14	-	-	-	-	5.7
5	3	6	6	6	3-5	36	0.14	0.17	0.16	0.14	-	-	-	-	5.7
5	3	6	6	6	10	36	0.14	0.16	0.17	0.14	-	-	-	-	5.7
5	3	6	6	6	15	35	0.16	0.21	0.22	0.14	-	-	-	-	5.7
5	3	6	6	6	20	35	0.21	0.27	0.28	0.14	-	-	-	-	5.7
5	3	6	6	6	25	35	0.26	0.34	0.34	0.14	-	-	-	-	5.7
5	3	6	6	6	30	35	0.31	0.41	0.41	0.14	-	-	-	-	5.7
5	4	8	7	6	<2	-	0.19	0.33	0.24	0.14	0.19	0.19	0.19	0.17	7.2
5	4	6	6	6	2<3	45	0.16	0.27	0.22	0.14	-	-	-	-	6.3
5	4	6	6	6	3-5	45	0.14	0.19	0.18	0.14	-	-	-	-	6.3
5	4	6	6	6	10	36	0.14	0.18	0.18	0.14	-	-	-	-	6.3
5	4	6	6	6	15	35	0.14	0.23	0.24	0.14	-	-	-	-	6.3
5	4	6	6	6	20	35	0.17	0.30	0.31	0.14	-	-	-	-	6.3
5	4	6	6	6	25	35	0.21	0.37	0.38	0.14	-	-	-	-	6.3
5	4	6	6	6	30	35	0.25	0.44	0.45	0.14	-	-	-	-	6.3
5	5	8	7	6	<2	-	0.19	0.35	0.26	0.14	0.19	0.19	0.19	0.17	7.8
5	5	6	6	6	2<3	45	0.14	0.29	0.24	0.14	-	-	-	-	6.9
5	5	6	6	6	3-5	45	0.14	0.21	0.20	0.14	-	-	-	-	6.9
5	5	6	6	6	10	45	0.14	0.19	0.20	0.14	-	-	-	-	6.9
5	5	6	6	6	15	36	0.14	0.24	0.25	0.14	-	-	-	-	6.9
5	5	6	6	6	20	35	0.15	0.31	0.32	0.14	-	-	-	-	6.9
5	5	6	6	6	25	35	0.18	0.38	0.39	0.14	-	-	-	-	6.9
5	5	6	6	6	30	35	0.21	0.46	0.47	0.14	-	-	-	-	6.9
5	2	8	7	6	<2	-	0.20	0.31	0.20	0.14	0.22	0.19	0.19	0.17	6.0
5	2	6	6	6	30	44	0.39	0.33	0.34	0.14	-	-	-	-	5.1

⑤

① For Box Length = 8'-0"

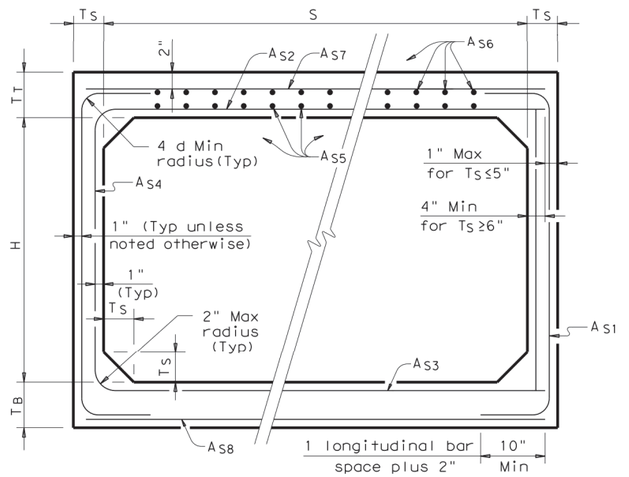
② A_{S1} thru A_{S4}, A_{S7} and A_{S8} are minimum required areas of reinforcement per linear foot of box length. A_{S6} and A_{S5} are minimum required areas of reinforcement per linear foot of box width.

⑤ These designs were created by TxDOT and are not shown in the ASTM Specifications.



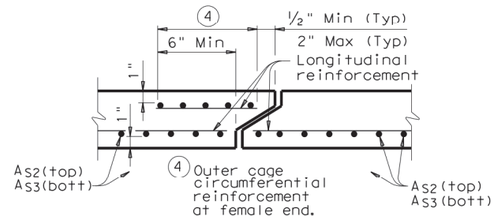
CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT 2 FT AND GREATER



CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT LESS THAN 2 FT



SECTION A-A

(TOP AND BOTTOM SLAB JOINT REINFORCEMENT)

GENERAL NOTES:

Designs shown conform to ASTM C1577.

Refer to ASTM C1577 for information or details not shown.

All concrete shall be Class "H" Concrete with a minimum compressive strength of 5,000 psi.

See SCP-MD standard sheet for miscellaneous details and notes not shown.

In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Shop plans for alternate designs shall be submitted in accordance with Item "Precast Concrete Structures".

HL93 LOADING

Texas Department of Transportation — Bridge Division Standard

SINGLE BOX CULVERTS PRECAST

5'-0" SPAN

SCP-5

FILE: scp05ste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
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REVISIONS				
	DIST	COUNTY		SHEET NO.
				132

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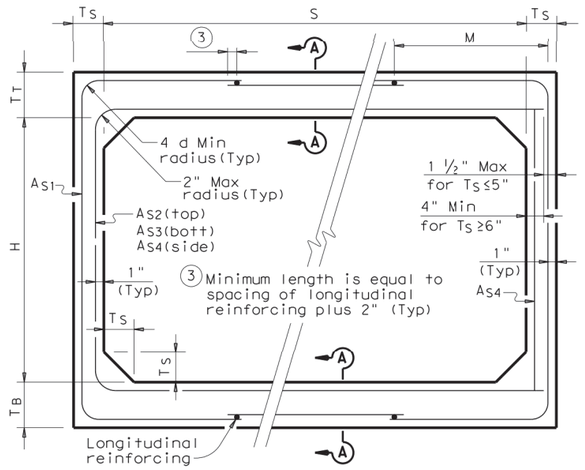
BOX DATA

SECTION DIMENSIONS					Fill Height	M (Min)	REINFORCING (in²/ft) ②								① Lift Weight (Tons)
S (ft)	H (ft)	T_T (in)	T_B (in)	T_S (in)	(ft)	(in)	A_{S1}	A_{S2}	A_{S3}	A_{S4}	A_{S5}	A_{S6}	A_{S7}	A_{S8}	
12	4	12	12	12	<2	-	0.38	0.31	0.29	0.29	0.29	0.29	0.29	0.29	22.8
12	4	12	12	12	2<3	73	0.44	0.37	0.30	0.29	-	-	-	-	22.8
12	4	12	12	12	3-5	66	0.37	0.30	0.29	0.29	-	-	-	-	22.8
12	4	12	12	12	10	66	0.44	0.34	0.35	0.29	-	-	-	-	22.8
12	4	12	12	12	15	59	0.60	0.46	0.48	0.29	-	-	-	-	22.8
12	4	12	12	12	20	59	0.78	0.60	0.61	0.29	-	-	-	-	22.8
12	4	12	12	12	25	59	0.97	0.74	0.75	0.29	-	-	-	-	22.8
12	6	12	12	12	<2	-	0.32	0.36	0.32	0.29	0.29	0.29	0.29	0.29	25.2
12	6	12	12	12	2<3	66	0.38	0.43	0.36	0.29	-	-	-	-	25.2
12	6	12	12	12	3-5	59	0.32	0.36	0.33	0.29	-	-	-	-	25.2
12	6	12	12	12	10	59	0.38	0.41	0.42	0.29	-	-	-	-	25.2
12	6	12	12	12	15	53	0.51	0.55	0.57	0.29	-	-	-	-	25.2
12	6	12	12	12	20	53	0.65	0.71	0.72	0.29	-	-	-	-	25.2
12	6	12	12	12	25	53	0.81	0.87	0.89	0.29	-	-	-	-	25.2
12	8	12	12	12	<2	-	0.29	0.41	0.38	0.29	0.29	0.29	0.29	0.29	27.6
12	8	12	12	12	2<3	66	0.33	0.49	0.42	0.29	-	-	-	-	27.6
12	8	12	12	12	3-5	59	0.29	0.41	0.38	0.29	-	-	-	-	27.6
12	8	12	12	12	10	59	0.34	0.46	0.48	0.29	-	-	-	-	27.6
12	8	12	12	12	15	53	0.44	0.61	0.64	0.29	-	-	-	-	27.6
12	8	12	12	12	20	53	0.57	0.78	0.81	0.29	-	-	-	-	27.6
12	8	12	12	12	25	53	0.69	0.96	0.99	0.29	-	-	-	-	27.6
12	10	12	12	12	<2	-	0.29	0.45	0.43	0.29	0.29	0.29	0.29	0.29	30.0
12	10	12	12	12	2<3	73	0.29	0.54	0.48	0.29	-	-	-	-	30.0
12	10	12	12	12	3-5	66	0.29	0.45	0.43	0.29	-	-	-	-	30.0
12	10	12	12	12	10	59	0.31	0.49	0.53	0.29	-	-	-	-	30.0
12	10	12	12	12	15	53	0.40	0.65	0.70	0.29	-	-	-	-	30.0
12	10	12	12	12	20	53	0.51	0.84	0.88	0.29	-	-	-	-	30.0
12	10	12	12	12	25	53	0.62	1.03	1.07	0.29	-	-	-	-	30.0
12	12	12	12	12	<2	-	0.29	0.49	0.48	0.33	0.29	0.29	0.29	0.29	32.4
12	12	12	12	12	2<3	93	0.29	0.59	0.53	0.29	-	-	-	-	32.4
12	12	12	12	12	3-5	80	0.29	0.49	0.48	0.29	-	-	-	-	32.4
12	12	12	12	12	10	73	0.29	0.52	0.58	0.29	-	-	-	-	32.4
12	12	12	12	12	15	59	0.37	0.69	0.74	0.29	-	-	-	-	32.4
12	12	12	12	12	20	59	0.46	0.87	0.93	0.29	-	-	-	-	32.4

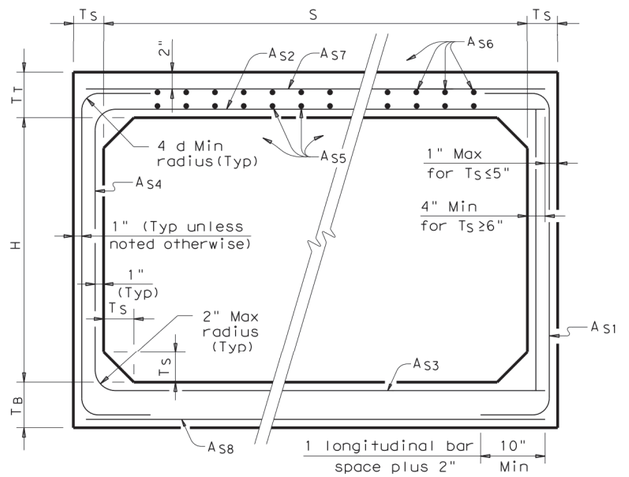
① For Box Length = 8'-0"

② A_{S1} thru A_{S4}, A_{S7} and A_{S8} are minimum required areas of reinforcement per linear foot of box length. A_{S6} and A_{S5} are minimum required areas of reinforcement per linear foot of box width.



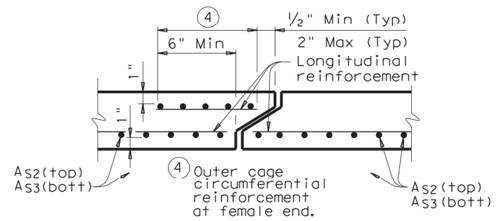
CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT 2 FT AND GREATER



CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT LESS THAN 2 FT



SECTION A-A

(TOP AND BOTTOM SLAB JOINT REINFORCEMENT)

GENERAL NOTES:

Designs shown conform to ASTM C1577. Refer to ASTM C1577 for information or details not shown.

All concrete shall be Class "H" Concrete with a minimum compressive strength of 5,000 psi.

See SCP-MD standard sheet for miscellaneous details and notes not shown.

In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Shop plans for alternate designs shall be submitted in accordance with Item "Precast Concrete Structures".

HL93 LOADING

Texas Department of Transportation

Bridge Division Standard

SINGLE BOX CULVERTS PRECAST

12'-0" SPAN

SCP-12

FILE: scp12ste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
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	DIST	COUNTY		SHEET NO. 133

DATE:
FILE:

Bid 1710-194

Williamson County, Texas

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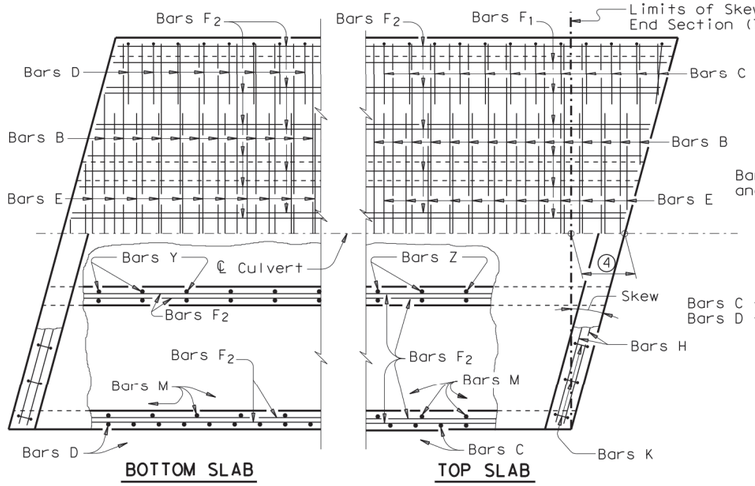
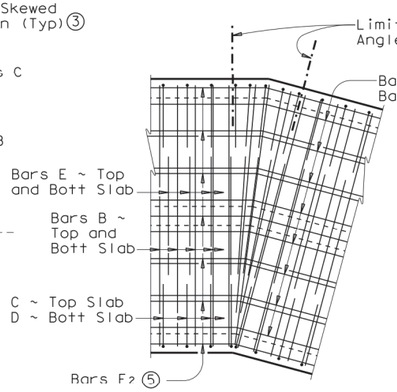
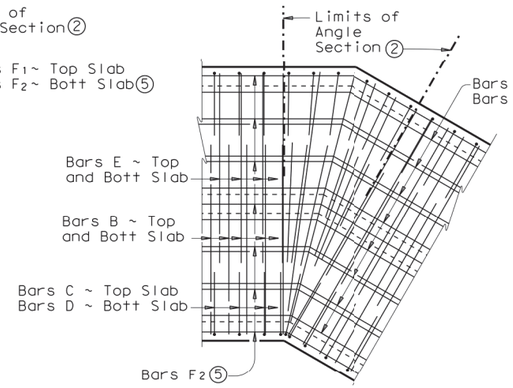


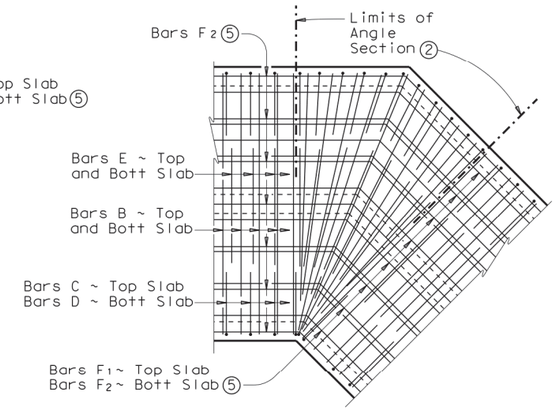
PLAN OF SKEWED ENDS ~ FROM 0° TO 15° ⑦



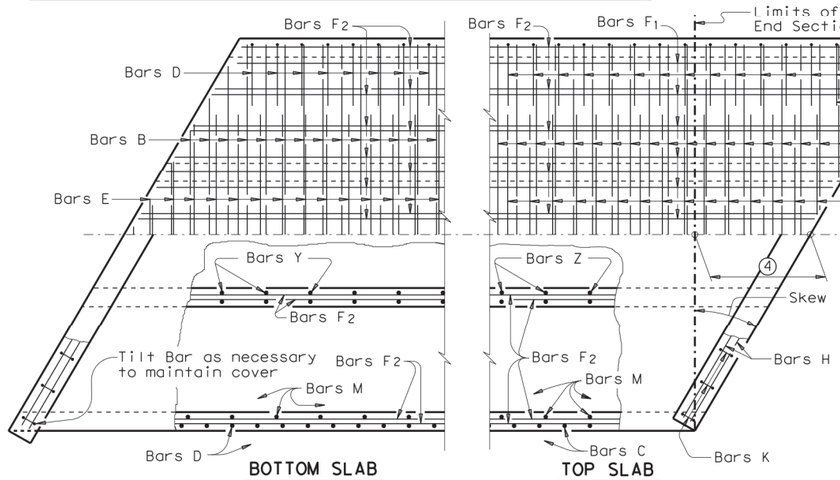
PLAN OF ANGLE SECTION ~ FROM 0° TO 15°



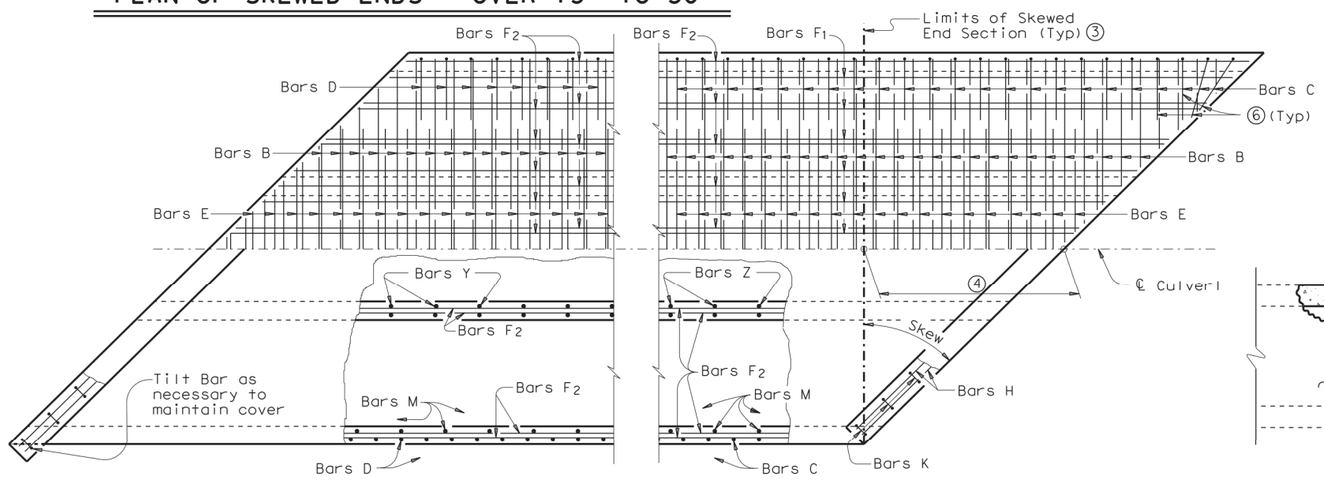
PLAN OF ANGLE SECTION ~ OVER 15° TO 30°



PLAN OF ANGLE SECTION ~ OVER 30° TO 45°



PLAN OF SKEWED ENDS ~ OVER 15° TO 30°



PLAN OF SKEWED ENDS ~ OVER 30° TO 45°

GENERAL NOTES:

Designed according to AASHTO LRFD Specificatns.

All reinforcing steel shall be Grade 60.

All concrete shall be Class "C" with these exceptions: use Class "S" for top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface.

Class "C" concrete shall have a minimum compressive strength of 3,600 psi. Class "S" concrete shall have a minimum compressive strength of 4,000 psi.

Refer to Multiple Box Culverts Cast-in-Place standard for details of straight sections of culvert. For skewed sections and angle sections refer to Multiple Box Culverts Cast-in-Place standard for slab and wall dimensions, bar sizes, maximum bar spacing, and any other details not shown. For Skewed ends with curbs, adjust length of Bars H, number of Bars K, curb concrete volume and reinforcing steel weight by dividing the values shown on the culvert standards by the cosine of the skew angle.

The use of permanent forms is not allowed.

Laps for Bars H, when required, shall be 1'-9" for uncoated bars and 2'-7" for epoxy coated.

① For box culverts with less than 2'-0" of fill, the top slab shall be broken back to provide a minimum 1'-10" lap of the existing longitudinal bars with the longitudinal bars in the extension. If the depth of fill is 2'-0" or greater, the top slab shall be broken back to provide a 1'-0" minimum embedment of existing longitudinal reinforcing into the extension. Alternatively, if the fill height is greater than 2'-0", the existing curb may be left in place and 2'-0" long #6 bars shall be drilled and grouted 1'-0" into the existing top slab at 1'-6" center to center spacing. Wings and apron shall be broken back as necessary to install the extension. Exposed wingwall and apron reinforcing may be removed or cleaned and included in the extension. When lengthening existing box culverts with dimensions different than current standard dimensions, horizontal and vertical transitions shall be formed as directed by the Engineer. Bottom slabs shall match to maintain an uninterrupted flow line. Existing and new reinforcing shall be field bent into transition maintaining specified cover requirements. For top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface, the "H" dimension may be adjusted to provide a smooth riding surface.

② When the spacing between Bars B or Bars E becomes less than half of the normal spacing, bars shall be cut to avoid fouling

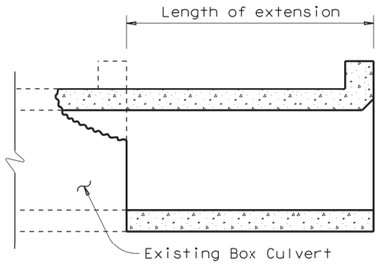
③ The length of Bars B and E will vary in the skewed end sections

④ [One half of overall width] x [Tan of the skew angle]

⑤ Bars F1 and F2 shall be continuous through the angle section. They shall be bent to remain parallel to the walls of the Box Culvert.

⑥ When necessary to avoid fouling in acute corners, the slab extension leg of Bars C and Bars D may be shortened to a minimum of 1'-6" for skews of 30° and 45°.

⑦ For skews of 15° or less, the contractor has the option of placing Bars B, C, D and E parallel to the skewed end while maintaining spacing along centerline box. Lengths of Bars B and E shown on the standards shall be increased to accommodate the skew.



LENGTHENING DETAIL ①

HL93 LOADING

Texas Department of Transportation

Bridge Division Standard

MULTIPLE BOX CULVERTS CAST-IN-PLACE MISCELLANEOUS DETAILS

MC-MD

FILE: mc-mdste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
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REVISIONS				
	DIST	COUNTY		SHEET NO.
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FILE: Bid 1710-194

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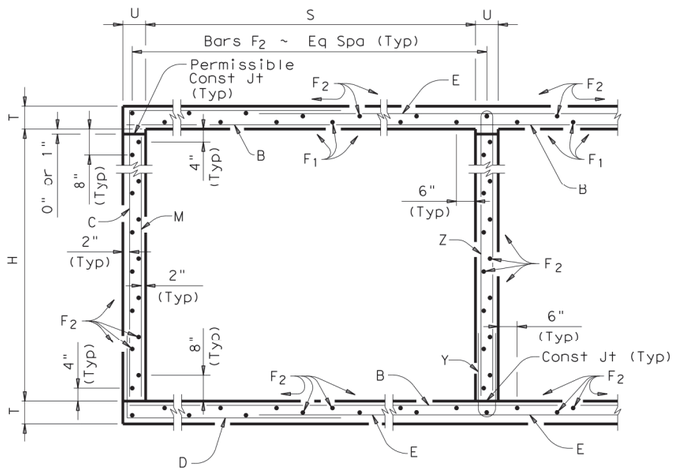
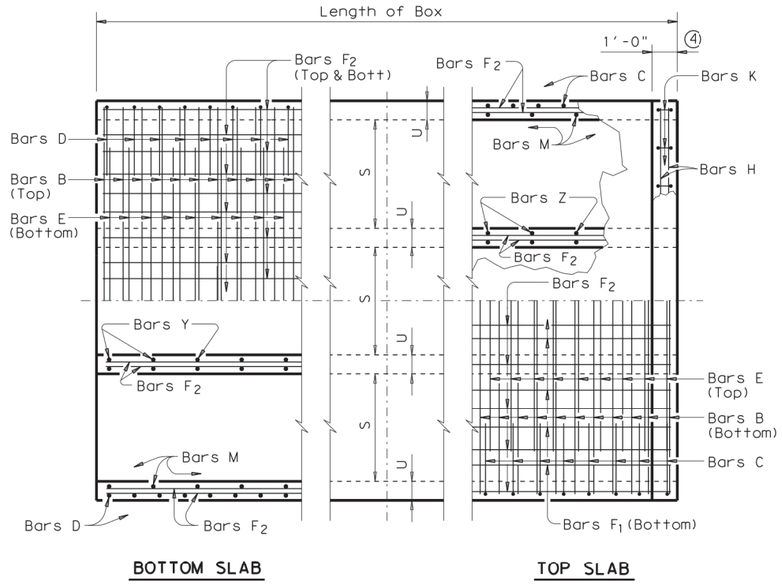


TYPICAL SECTION



BOTTOM SLAB

TOP SLAB

PART PLANS

① 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.

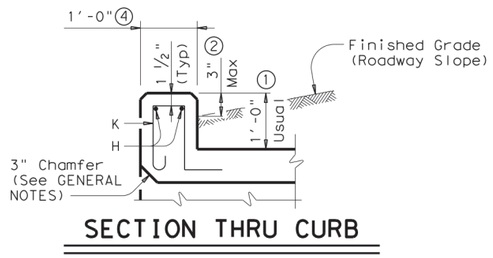
② For vehicle safety, the following requirements must be met:
- For structures without bridge rail, curbs shall project no more than 3" above finished grade.
- For structures with bridge rail, curbs shall be flush with finished grade.
Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

③ For curbs less than 1'-0" high, tilt bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, bars K may be omitted.

④ 1'-0" typical. 2'-0" when RAC standard is referred to elsewhere in the plans.

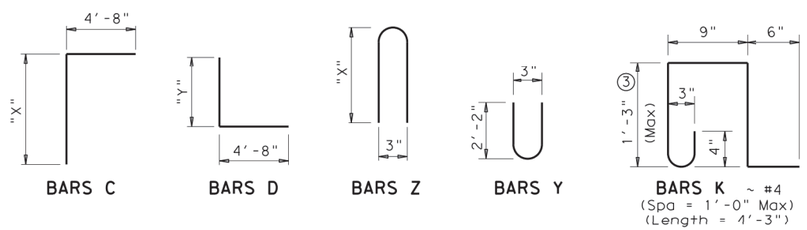
Deformed welded wire reinforcement (WWR) meeting the requirements of ASTM A1064 may be used to replace conventional reinforcement shown at the Contractor's option. The area of required reinforcement may be reduced by the ratio of 60 ksi / 70 ksi. Spacing of WWR is limited to 4" Min and 18" Max. When required, provide lap splices in the WWR of the same length required for the equivalent bar size, rounded up for wire sizes between conventional bar sizes.

Example Conversion: Replacement of No. 6 Gr 60 at 6" Spacing with WWR.
WWR required = (0.44 sq in/ 0.5') x (60 ksi/70 ksi) = 0.754 sq in/ft.
If D30.6 wire is used to meet the 0.754 sq in/ft requirement in this example, the required spacing = (0.306 sq in/ 0.754 sq in/ft) x 12 in/ft = 4.87" Max spacing.
Required lap length for the provided D30.6 wire is 2'-2" (Lap required for uncoated No. 5 bars, as shown in Item 440).



SECTION THRU CURB

H	Bar Dimensions	
	"X"	"Y"
2'-0"	2'-5"	2'-2"
3'-0"	3'-5"	2'-2"
4'-0"	4'-5"	2'-2"
5'-0"	5'-5"	2'-2"



GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.
Designed to the maximum fill height shown.
All reinforcing steel shall be Grade 60.
All concrete shall be Class "C" with these exceptions: use Class "S" for top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface.
Class "C" concrete shall have a minimum compressive strength of 3,600 psi. Class "S" concrete shall have a minimum compressive strength of 4,000 psi.
The use of permanent forms is not allowed.
The bottom edge of the top slab shall be chamfered 3" at the entrance.
Reinforcing bars shall be adjusted to provide a minimum of 1 ¼" clear cover.
Construction joints shown at the flow line may be raised a maximum of 6" at the Contractor's option. If this option is used, Bars M may be cut off or raised, Bars C and D may be reversed, and Bars Y and Z may be reversed.
See standard MC-MD for skewed ends, angle sections and lengthening details.

HL93 LOADING

SHEET 1 OF 2

Texas Department of Transportation

Bridge Division Standard

MULTIPLE BOX CULVERTS CAST-IN-PLACE

5'-0" SPAN

0' TO 20' FILL

MC-5-20

FILE: mc520ste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
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REVISIONS				
10-12: Added WWR	DIST	COUNTY		SHEET NO.
				135

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FILE:

Bid 1710-194

Williamson County, Texas

10/10/2012 6:54 AM

10/10/2017 6:54 AM

BILLS OF REINFORCING STEEL (For Box Length = 40 feet)

NUMBER OF SPANS	SECTION DIMENSIONS				Bars B					Bars C & D							Bars E					Bars F_1 ~#4				Bars F_2 ~#4 at 1'-6" Max			Bars M~#4 at 1'-6" Max			Bars Y & Z~#4 at 1'-0" Max					Bars H 4~#4		Bars K	
													Bar C		Bar D																										
	S	H	T	U	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	Length	Wt	No.	Size	Spa	Length	Wt	No.	Spa	Length	Wt	No.	Length	Wt	No.	Length	Wt	No.	Bar Y Length	Bar Y Wt	Bar Z Length	Bar Z Wt	Length	Weight	No.	Weight
2	5'-0"	2'-0"	7"	7"	194	#4	5"	11'- 6"	1,490	162	#4	6"	7'- 1"	767	6'-10"	739	162	#5	6"	5'- 8"	957	14	8"	39'-9"	372	38	39'-9"	1,009	56	2'- 0"	75	41	4'- 6"	123	5'- 0"	137	11'- 6"	31	26	74
3	5'-0"	2'-0"	7"	7"	194	#4	5"	17'- 1"	2,214	162	#4	6"	7'- 1"	767	6'-10"	739	162	#5	6"	11'- 3"	1,901	21	8"	39'-9"	558	54	39'-9"	1,434	56	2'- 0"	75	82	4'- 6"	246	5'- 0"	274	17'- 1"	46	36	102
4	5'-0"	2'-0"	7"	7"	194	#4	5"	22'- 8"	2,937	162	#4	6"	7'- 1"	767	6'-10"	739	162	#5	6"	16'-10"	2,844	28	8"	39'-9"	743	70	39'-9"	1,859	56	2'- 0"	75	123	4'- 6"	370	5'- 0"	411	22'- 8"	61	48	136
5	5'-0"	2'-0"	7"	7"	194	#4	5"	28'- 3"	3,661	162	#4	6"	7'- 1"	767	6'-10"	739	162	#5	6"	22'- 5"	3,788	35	8"	39'-9"	929	86	39'-9"	2,284	56	2'- 0"	75	164	4'- 6"	493	5'- 0"	548	28'- 3"	75	60	170
6	5'-0"	2'-0"	7"	7"	194	#4	5"	33'-10"	4,385	162	#4	6"	7'- 1"	767	6'-10"	739	162	#5	6"	28'- 0"	4,731	42	8"	39'-9"	1,115	102	39'-9"	2,708	56	2'- 0"	75	205	4'- 6"	616	5'- 0"	685	33'-10"	90	70	199
2	5'-0"	3'-0"	7"	7"	194	#4	5"	11'- 6"	1,490	138	#4	7"	8'- 1"	745	6'-10"	630	162	#5	6"	5'- 8"	957	14	8"	39'-9"	372	44	39'-9"	1,168	56	3'- 0"	1'2	41	4'- 6"	123	7'- 0"	192	11'- 6"	31	26	74
3	5'-0"	3'-0"	7"	7"	194	#4	5"	17'- 1"	2,214	138	#4	7"	8'- 1"	745	6'-10"	630	162	#5	6"	11'- 3"	1,901	21	8"	39'-9"	558	62	39'-9"	1,646	56	3'- 0"	1'2	82	4'- 6"	246	7'- 0"	383	17'- 1"	46	36	102
4	5'-0"	3'-0"	7"	7"	194	#4	5"	22'- 8"	2,937	138	#4	7"	8'- 1"	745	6'-10"	630	162	#5	6"	16'-10"	2,844	28	8"	39'-9"	743	80	39'-9"	2,124	56	3'- 0"	1'2	123	4'- 6"	370	7'- 0"	575	22'- 8"	61	48	136
5	5'-0"	3'-0"	7"	7"	194	#4	5"	28'- 3"	3,661	138	#4	7"	8'- 1"	745	6'-10"	630	162	#5	6"	22'- 5"	3,788	35	8"	39'-9"	929	98	39'-9"	2,602	56	3'- 0"	1'2	164	4'- 6"	493	7'- 0"	767	28'- 3"	75	60	170
6	5'-0"	3'-0"	7"	7"	194	#4	5"	33'-10"	4,385	138	#4	7"	8'- 1"	745	6'-10"	630	162	#5	6"	28'- 0"	4,731	42	8"	39'-9"	1,115	116	39'-9"	3,080	56	3'- 0"	1'2	205	4'- 6"	616	7'- 0"	959	33'-10"	90	70	199
2	5'-0"	4'-0"	7"	7"	194	#4	5"	11'- 6"	1,490	138	#4	7"	9'- 1"	837	6'-10"	630	162	#5	6"	5'- 8"	957	14	8"	39'-9"	372	44	39'-9"	1,168	56	4'- 0"	150	41	4'- 6"	123	9'- 0"	246	11'- 6"	31	26	74
3	5'-0"	4'-0"	7"	7"	194	#4	5"	17'- 1"	2,214	138	#4	7"	9'- 1"	837	6'-10"	630	162	#5	6"	11'- 3"	1,901	21	8"	39'-9"	558	62	39'-9"	1,646	56	4'- 0"	150	82	4'- 6"	246	9'- 0"	493	17'- 1"	46	36	102
4	5'-0"	4'-0"	7"	7"	194	#4	5"	22'- 8"	2,937	138	#4	7"	9'- 1"	837	6'-10"	630	162	#5	6"	16'-10"	2,844	28	8"	39'-9"	743	80	39'-9"	2,124	56	4'- 0"	150	123	4'- 6"	370	9'- 0"	739	22'- 8"	61	48	136
5	5'-0"	4'-0"	7"	7"	194	#4	5"	28'- 3"	3,661	138	#4	7"	9'- 1"	837	6'-10"	630	162	#5	6"	22'- 5"	3,788	35	8"	39'-9"	929	98	39'-9"	2,602	56	4'- 0"	150	164	4'- 6"	493	9'- 0"	986	28'- 3"	75	60	170
6	5'-0"	4'-0"	7"	7"	194	#4	5"	33'-10"	4,385	138	#4	7"	9'- 1"	837	6'-10"	630	162	#5	6"	28'- 0"	4,731	42	8"	39'-9"	1,115	116	39'-9"	3,080	56	4'- 0"	150	205	4'- 6"	616	9'- 0"	1,232	33'-10"	90	70	199
2	5'-0"	5'-0"	7"	7"	194	#4	5"	11'- 6"	1,490	138	#4	7"	10'- 1"	930	6'-10"	630	162	#5	6"	5'- 8"	957	14	8"	39'-9"	372	50	39'-9"	1,328	56	5'- 0"	187	41	4'- 6"	123	11'- 0"	301	11'- 6"	31	26	74
3	5'-0"	5'-0"	7"	7"	194	#4	5"	17'- 1"	2,214	138	#4	7"	10'- 1"	930	6'-10"	630	162	#5	6"	11'- 3"	1,901	21	8"	39'-9"	558	70	39'-9"	1,859	56	5'- 0"	187	82	4'- 6"	246	11'- 0"	603	17'- 1"	46	36	102
4	5'-0"	5'-0"	7"	7"	194	#4	5"	22'- 8"	2,937	138	#4	7"	10'- 1"	930	6'-10"	630	162	#5	6"	16'-10"	2,844	28	8"	39'-9"	743	90	39'-9"	2,390	56	5'- 0"	187	123	4'- 6"	370	11'- 0"	904	22'- 8"	61	48	136
5	5'-0"	5'-0"	7"	7"	194	#4	5"	28'- 3"	3,661	138	#4	7"	10'- 1"	930	6'-10"	630	162	#5	6"	22'- 5"	3,788	35	8"	39'-9"	929	110	39'-9"	2,921	56	5'- 0"	187	164	4'- 6"	493	11'- 0"	1,205	28'- 3"	75	60	170
6	5'-0"	5'-0"	7"	7"	194	#4	5"	33'-10"	4,385	138	#4	7"	10'- 1"	930	6'-10"	630	162	#5	6"	28'- 0"	4,731	42	8"	39'-9"	1,115	130	39'-9"	3,452	56	5'- 0"	187	205	4'- 6"	616	11'- 0"	1,506	33'-10"	90	70	199

QUANTITIES

NUMBER OF SPANS	Per foot of Barrel		Curb		Total	
	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)
2	0.637	141.7	0.9	105	26.4	5,774
3	0.922	205.2	1.3	148	38.2	8,356
4	1.206	268.6	1.7	197	49.9	10,942
5	1.491	332.1	2.1	245	61.7	13,529
6	1.775	395.5	2.5	289	73.5	16,110
2	0.702	144.7	0.9	105	29.0	5,894
3	1.008	210.9	1.3	148	41.6	8,583
4	1.314	277.0	1.7	197	54.3	11,277
5	1.620	343.2	2.1	245	66.9	13,972
6	1.926	409.3	2.5	289	79.5	16,662
2	0.767	149.3	0.9	105	31.6	6,078
3	1.095	216.9	1.3	148	45.1	8,823
4	1.422	284.4	1.7	197	58.6	11,571
5	1.750	351.9	2.1	245	72.1	14,321
6	2.078	419.4	2.5	289	85.6	17,065
2	0.832	158.0	0.9	105	34.2	6,423
3	1.181	228.2	1.3	148	48.5	9,276
4	1.530	298.4	1.7	197	62.9	12,132
5	1.880	368.6	2.1	245	77.3	14,989
6	2.229	438.8	2.5	289	91.7	17,841

Deformed welded wire reinforcement (WWR) meeting the requirements of ASTM A1064 may be used to replace conventional reinforcement shown at the Contractor's option. The area of required reinforcement may be reduced by the ratio of 60 ksi / 70 ksi. Spacing of WWR is limited to 4" Min and 18" Max. When required, provide lap splices in the WWR of the same length required for the equivalent bar size, rounded up for wire sizes between conventional bar sizes.

Example Conversion: Replacement of No. 6 Gr 60 at 6" Spacing with WWR.
WWR required = (0.44 sq in/ 0.5') x (60 ksi/70 ksi) = 0.754 sq in/ft.
If D30.6 wire is used to meet the 0.754 sq in/ft requirement in this example, the required spacing = (0.306 sq in/ 0.754 sq in/ft) x 12 in/ft = 4.87" Max spacing.
Required lap length for the provided D30.6 wire is 2'-2" (Lap required for uncoated No. 5 bars, as shown in Item 440).

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DATE:
FILE: bid 1710-194

Williamson County, Texas

HL93 LOADING

Texas Department of Transportation

Bridge Division Standard

MULTIPLE BOX CULVERTS CAST-IN-PLACE

5'-0" SPAN
0' TO 20' FILL

MC-5-20

FILE: mc520ste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
10-12: Added WWR	DIST	COUNTY		SHEET NO.
				136

Culvert Station and/or Creek name followed by applicable end (Lt, Rt or Both)	Description of Box Culvert No. Spans ~ Span X Height	Max Fill Height (Ft)	Applicable Box Culvert Standard (4)	Applicable Wingwall or End Treatment Standard	Skew Angle (0°, 15°, 30° or 45°)	Side Slope or Channel Slope Ratio (SL:1)	T Culvert Top Slab Thickness (In)	U Culvert Wall Thickness (In)	C Estimated Curb Height (Ft)	Hw (1) Height of Wingwall (Ft)	A Curb to End of Wingwall (Ft)	B Offset of End of Wingwall (Ft)	Lw Length of Longest Wingwall (Ft)	Ltw Culvert Toewall Length (Ft)	Atw Anchor Toewall Length (Ft)	Riprap Apron (C.Y.)	Class "C" Conc (Curb) (2) (C.Y.)	Class "C" Conc (Wingwall) (3) (C.Y.)	Total Wingwall Area (S.F.)
STA. 15+66.14, SWALE A (BOTH)	1–5' X 3'	1.5	SCP–5	SETB–PD	0°	3:1	8	6	0.5	3.833	N/A	N/A	10.75	N/A	6	0.0	0.22	2.5	N/A
STA. 16+53.79, SWALE A (BOTH)	1–5' X 3'	1.5	SCP–5	SETB–PD	0°	3:1	8	6	0.5	3.833	N/A	N/A	10.75	N/A	6	0.0	0.22	2.5	N/A
STA. 19+78.5, SWALE A (LT)	1–12' X 4'	1.5	SCP–12	FW–0	0°	3:1	12	12	2.15	6.9	19.7	11.37	22.75	14.0	N/A	6.58	0.26	4.71	82.28
STA. 19+78.5, SWALE A (RT)	1–12' X 4'	1.5	SCP–12	SW–0	0°	4:1	12	12	2.15	6.9	N/A	N/A	26.27	14.0	N/A	0.0	0.26	5.44	95.0
STA. 22+30.07, SWALE A (BOTH)	4–5' X 4'	1.5	MC–5–20	FW–S	45°	3:1	7	7	3.17	7.50	21.50	37.24	43.0	32.4	N/A	16.25	1.7	15.67	252.61

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NOTES:

Skew Angle = 0° for SW-0, FW-0, SETB-CD, SETB-SW-0, and SETB-FW-0 standards.
30° Maximum for Safety End Treatment

SL:1 = Horizontal:1 Vertical
Side Slope at culvert for Flared or Straight Wingwalls. Channel Slope for Parallel Wingwalls.
Slope shall be 3:1 or flatter for Safety End Treatments.

T = Box Culvert Top Slab Thickness. Dimension can be found on the applicable Box Culvert Standard.

U = Box Culvert Wall Thickness. Dimension can be found on the applicable Box Culvert Standard.

C = Curb Height.

See applicable wing or end treatment standards for calculations of Hw, A, B, Lw, Ltw, Atw, and Total Wingwall Area.
Hw = Height of Wingwall.
A = Distance from Face of Curb to End of Wingwall (Not applicable to Parallel or Straight Wingwalls).
B = Offset of End of Wingwall (Not applicable to Parallel or Straight Wingwalls).
Lw = Length of Longest Wingwall.
Ltw = Length of Culvert Toewall (Not applicable when using Riprap Apron).
Atw = Length of Anchor Toewall (Applicable to Safety End Treatment only).
Total Wingwall Area = Wingwall area in S.F. for two wingwalls (one structure end) if Lt or Rt.
Area for four wingwalls (two structure ends) if Both.

(1) The wall heights shown will be rounded to the nearest Foot for bidding purposes.

(2) Concrete volume shown is for box culvert curb only. For curbs using the RAC standard, quantities shown must be increased by a factor of 2. If Class "S" concrete is required for the top slab of the culvert, the curb concrete shall also be Class "S". Curb concrete is considered part of the Box Culvert for payment.

(3) Concrete volume shown is total of wing, footing, culvert toewall (if any), anchor toewall (if any) and wingwall toewall. Riprap apron, culvert and curb quantities are not included.

(4) Regardless of the type of culvert shown on this sheet, the Contractor shall have the option of furnishing cast-in-place or precast culverts unless otherwise shown elsewhere on the plans. If the Contractor elects to provide culverts of a different type than those shown on this sheet, it shall be the Contractor's responsibility to make the necessary adjustments to the dimensions and quantities shown.

SPECIAL NOTE:

This sheet is a supplement to the Box Culvert standards. It is to be filled out by the culvert specifier and provides dimensions for the construction of the Box Culvert Wingwalls and Safety End Treatments.

An Excel 97 spreadsheet to assist in completing this table can be downloaded from the Bridge Standards (English) web page on the TxDOT web site. The completed sheet shall be signed, sealed, and dated by a licensed Professional Engineer.

Texas Department of Transportation

Bridge Division Standard

BOX CULVERT SUPPLEMENT
WINGS AND END TREATMENTS

BCS

FILE: bcsstde1.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.
				137

DATE:
FILE: Bid 1710-194

10/10/2017 6:54 AM

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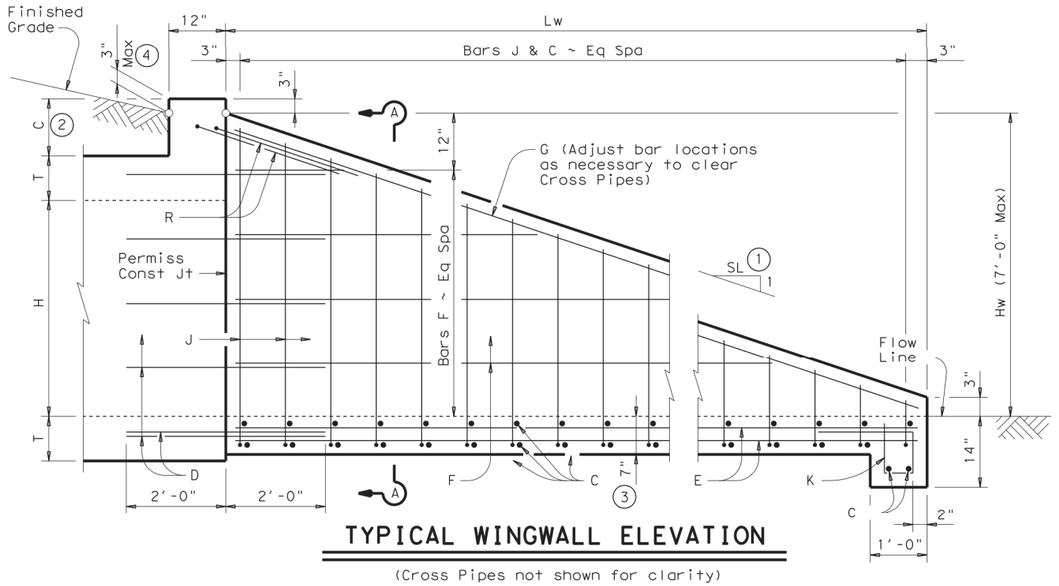
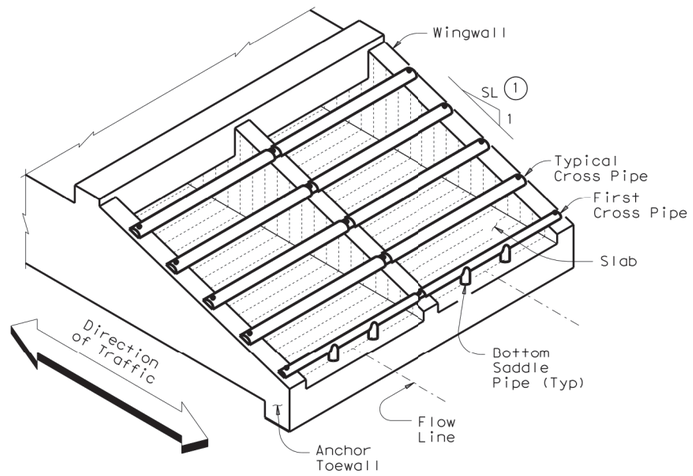


TYPICAL WINGWALL ELEVATION

(Cross Pipes not shown for clarity)



ISOMETRIC VIEW OF TYPICAL INSTALLATION

(Showing Bolted Anchor Option)

Formulas: (All values are in Feet)

Hw = H + T + C - 0.250'

Lw = (Hw - 0.250') (SL)

For Cast-in-place culverts:

Atw = (N) (S) + (N + 1) (U)

For Precast culverts:

Atw = (N) (2U + S) + (N - 1) (0.500')

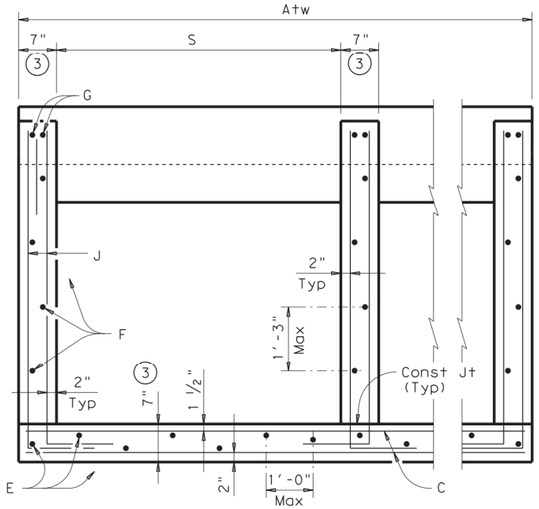
Total Wingwall Area (S.F.)
= (0.5) (Hw + 0.250') (Lw) (N + 1)

Total Concrete Volume (C.Y.)
= [(Wingwall Area) (0.583') +
(Lw) (Atw) (0.583') +
(Atw) (1.000') (1.167' - 0.583')] ÷ (27)

Total Reinforcing (Lbs)
= (1.55) (Lw) (Atw) +
(4.43) (Atw) +
(K) (Hw) (N + 1) $(\sqrt{Lw})$

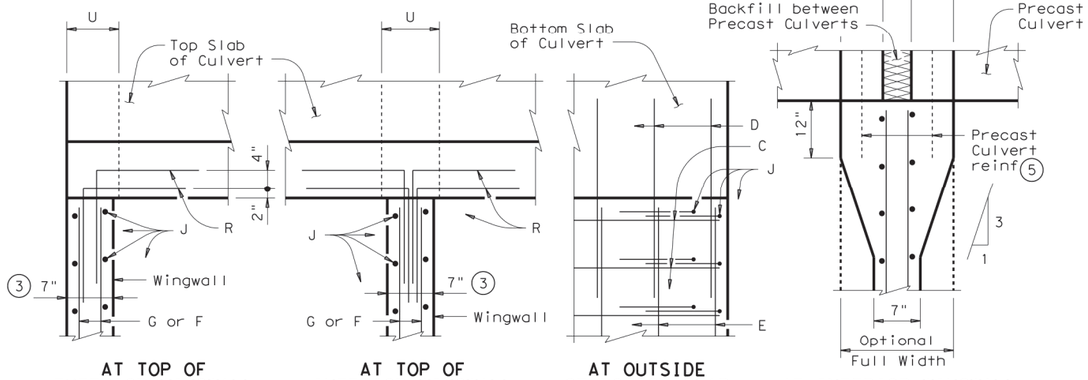
C = Height of Curb above top of Top Slab
Hw = Height of Wingwall
K = Constant Value for use in formulas
Slope SL:1 K
6:1 ~ 10.41
Atw = Anchor Toewall Length
Lw = Length of Wingwall
N = Number of Culvert Barrels
S = Clear Span of each Barrel
SL:1 = Side Slope Ratio (Horizontal : 1 Vertical)

See applicable box culvert standard for H, S, T, and U values.



SECTION A-A

(Showing typical Wingwall and Wing Slab reinforcing)
(Pipe Runners not shown for clarity)



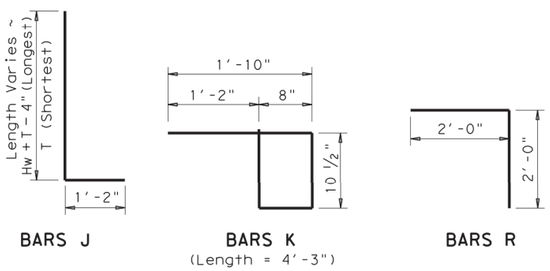
AT TOP OF EXTERIOR WINGWALL (Cast-in-Place Culvert)

AT TOP OF INTERIOR WINGWALL (Cast-in-Place Culvert)

AT OUTSIDE OF BOTTOM SLAB (Cast-in-Place Culvert)

AT INTERIOR WINGWALL (Precast Culvert)

PLAN VIEWS OF CORNER DETAILS



BARS J

BARS K
(Length = 4'-3")

BARS R

TABLE OF REINFORCING BAR SIZES & SPACING		
Bar	Size	Spacing
C	#4	10" Max
D	#4	match F & E
E	#4	1'- 0" Max
F	#4	1'- 3" Max
G	#6	Shown
J	#4	10" Max
K	#4	1'- 0" Max
R	#4	Shown

(1) Slope will be 6:1 or flatter.

(2) 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures without railing and curbs taller than 1'-0", refer to ECD standard.

(3) Wingwall and slab thicknesses may be the same as the adjacent culvert wall and slab thicknesses (7" Minimum). If thicknesses greater than the minimum (7") are used, no changes will be made in quantities and no additional compensation will be allowed.

(4) For vehicle safety, curbs shall project no more than 3" above finished grade. Curb heights shall be reduced, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

(5) For Culverts with C = 0", the precast culvert reinforcing may extend 1'-0" minimum into Wingwall. Wingwall Bars D and R may be omitted. Otherwise, refer to the "Wingwall Connection Detail" on the SCP-MD standard.

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

The Safety End Treatments shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the Cross Pipes.

Cross Pipes are designed for a traversing load of 10,000 pounds at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

All reinforcing steel shall be Grade 60. All reinforcing shall be adjusted as necessary to provide a minimum clear cover of 1 ¼".

The quantities for concrete, reinforcing steel, and Cross Pipes resulting from the formulas given herein are for Contractor's information only.

Cross Pipes, Sleeve Pipes, and Saddle Pipes shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

Bolts and nuts shall conform to ASTM A307.

All steel components, except the concrete reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.

See BCS standard sheet for additional dimensions and information.

Alternate design drawings bearing the seal of a professional engineer will be acceptable for precast construction of the Safety End Treatments.

Texas Department of Transportation

Bridge Division Standard

SAFETY END TREATMENT

FOR BOX CULVERTS
(MAXIMUM Hw = 7'-0")
TYPE I ~ PARALLEL DRAINAGE

SETB-PD

FILE: setbpdse.dgn	DN: GAF	CK: CAT	DW: JRP	CK: GAF
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	DIST	COUNTY		SHEET NO.
				138

DATE:
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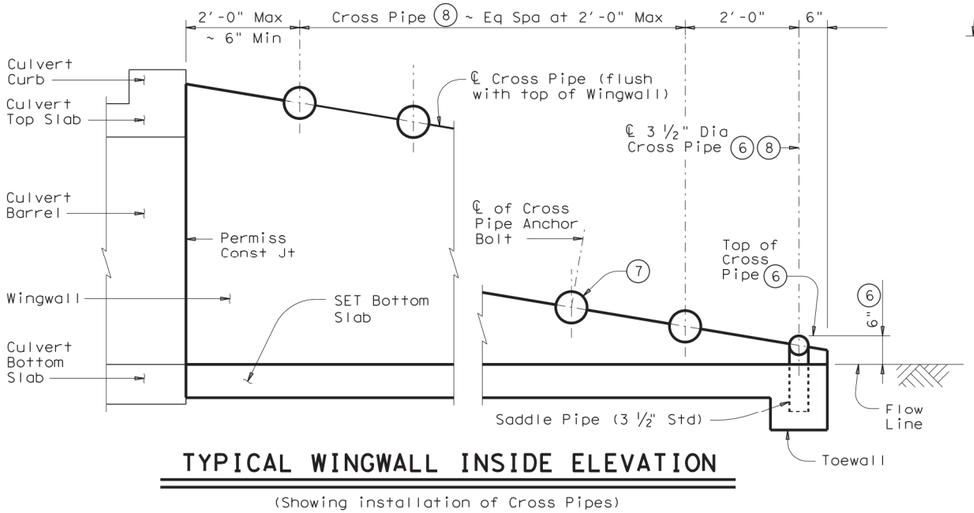
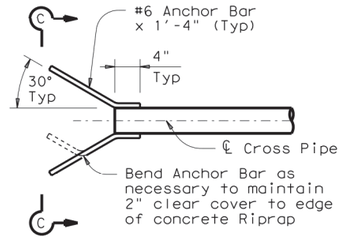
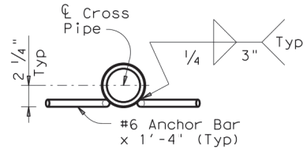


TYPICAL WINGWALL INSIDE ELEVATION

(Showing installation of Cross Pipes)

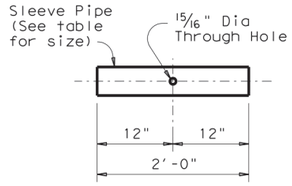


PART PLAN



SECTION C-C

OPTIONAL ANCHOR BAR DETAILS



SLEEVE PIPE DETAILS (9)

REQUIRED PIPE SIZES (8)		
Culvert Span Sizes	Cross Pipe Size	Sleeve Pipe Size (9)
First Pipe	3 ½" STD	2 ½" STD
30" to 42"	4" STD	3" STD
48" to 72"	5" STD	4" STD
78" to 120"	6" STD	5" STD

STANDARD PIPE SIZES		
Pipe Size	Pipe O.D.	Pipe I.D.
2 ½" STD	2.875"	2.469"
3" STD	3.500"	3.068"
3 ½" STD	4.000"	3.548"
4" STD	4.500"	4.026"
5" STD	5.563"	5.047"
6" STD	6.625"	6.065"

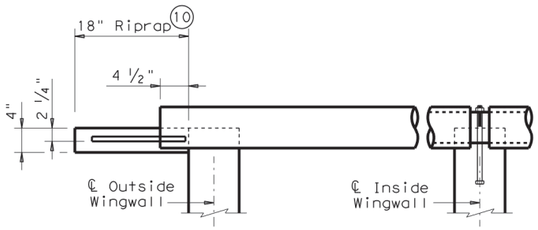
(6) The proper installation of the first Cross Pipe is critical for vehicle safety. The top of the first Cross Pipe must be placed at no more than 6" above the flow line.

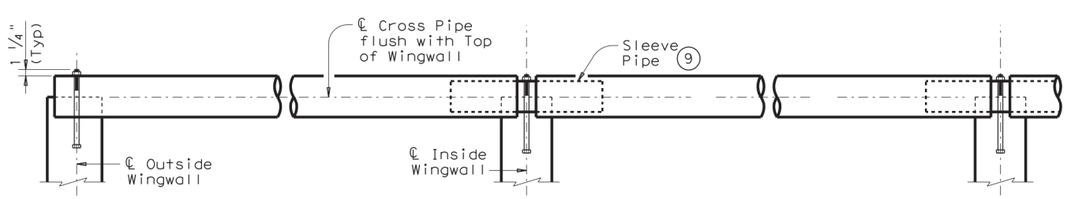
(7) The third Cross Pipe from the bottom of the Culvert shall always be installed using a bolted connection. Care shall be taken to ensure that concrete does not flow into this Cross Pipe so as to permit disassembly of the bolted connection to allow cleanout access.

(8) Cross Pipes and Sleeve Pipes (if required) shall be as shown in the REQUIRED PIPE SIZES table. Saddle Pipes for the 3 ½" first Cross Pipe shall also be 3 ½".

(9) At Contractor's option, the Cross Pipe may be continuous across the Inside Wingwalls. If such option is selected, the Sleeve Pipe shall be omitted and a 15/16" diameter through hole made in the Cross Pipe to accept the anchor bolt at the centerline of each Interior Wingwall.

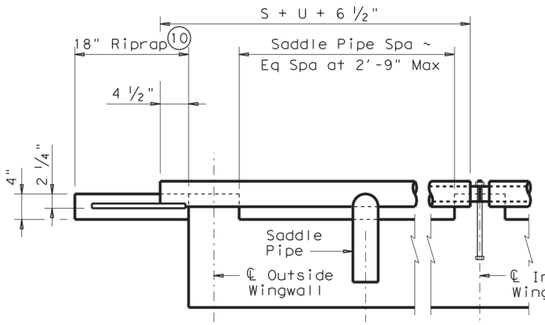
(10) Riprap will be required when using the optional Anchor Bar details and shall be included in the Price Bid for Safety End Treatment. Such Riprap shall be concrete Riprap in accordance with Item 432, "Riprap".

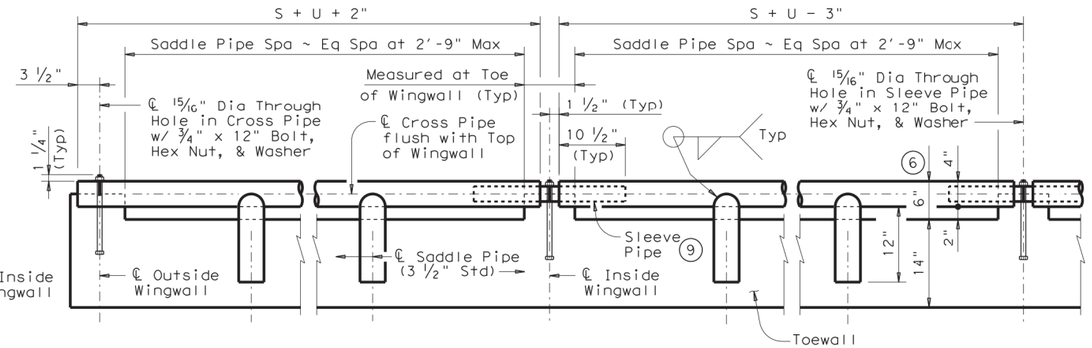




SECTION THROUGH INSTALLATION OF TYPICAL FULL CROSS PIPE

(Anchor details and dimensions are similar to those shown below in SECTION THROUGH INSTALLATION OF 3 ½" FIRST CROSS PIPE detail.)





SECTION THROUGH INSTALLATION OF 3 ½" FIRST CROSS PIPE

OUTSIDE CULVERT BARREL WITH OPTIONAL ANCHOR BARS & RIPRAP

OUTSIDE CULVERT BARREL WITH BOLTED ANCHOR

INSIDE CULVERT BARREL

CROSS PIPE INSTALLATION DETAILS

SHEET 2 OF 2

Texas Department of Transportation

Bridge Division Standard

SAFETY END TREATMENT

FOR BOX CULVERTS
(MAXIMUM Hw = 7'-0")
TYPE I ~ PARALLEL DRAINAGE

SETB-PD

FILE: setbpdse.dgn	DN: GAF	CK: CAT	DW: JRP	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.
				139

Bid 1710-194

Williamson County, Texas

10/10/2012 6:54 AM

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TABLE OF DIMENSIONS & REINFORCING STEEL
(Wings for One Structure End)

Dimensions					Variable Reinforcing				Estimated ③ Quantities per ft of wing length (2~Wings)	
					Bars J1		Bars J2			
Maximum Wingwall Height Hw	W	X	Y	Z	Size	Spa	Size	Spa	Reinf (Lb/Ft)	Conc (CY/Ft)
2'-6"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	33.73	0.248
3'-0"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	37.07	0.261
3'-6"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	37.74	0.273
4'-0"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	38.41	0.285
4'-6"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	41.75	0.330
5'-0"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	45.09	0.343
5'-6"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	45.75	0.355
6'-0"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	46.42	0.367
7'-0"	3'- 8"	1'- 9"	1'- 3"	7"	#4	1'-0"	#4	1'-0"	52.77	0.414
8'-0"	4'- 2"	2'- 0"	1'- 6"	8"	#5	1'-0"	#4	1'-0"	60.19	0.486
9'-0"	4'- 8"	2'- 3"	1'- 9"	8"	#4	6"	#4	6"	81.49	0.535
10'-0"	5'- 2"	2'- 6"	2'- 0"	8"	#5	6"	#4	6"	97.25	0.584
11'-0"	5'- 8"	2'- 9"	2'- 3"	8"	#6	6"	#5	6"	133.65	0.634
12'-0"	6'- 2"	3'- 0"	2'- 6"	9"	#7	6"	#5	6"	162.29	0.721
13'-0"	6'- 8"	3'- 3"	2'- 9"	11"	#7	6"	#5	6"	178.80	0.856
14'-0"	7'- 2"	3'- 6"	3'- 0"	1'- 0"	#8	6"	#5	6"	216.78	0.959
15'-0"	7'- 8"	4'- 0"	3'- 0"	1'- 1"	#9	6"	#6	6"	283.06	1.068
16'-0"	8'- 2"	4'- 6"	3'- 0"	1'- 3"	#9	6"	#6	6"	297.02	1.234

TABLE OF WINGWALL REINFORCING (2~Wings)

Bar	Size	No.	Spa
D	#5	~	1'-0"
E	#4	~	1'-0"
F	#4	~	1'-0"
G	#6	4	~
M	#4	4	~
P	#4	~	1'-0"
R	#5	6	~
V	#4	~	1'-0"

TABLE OF ESTIMATED CULVERT TOEWALL QUANTITIES

Bar	Size	No.	Spa
L	#4	~	1'-6"
Q	#4	1	~
Reinf (Lb/Ft)			2.45
Conc (CY/Ft)			0.037

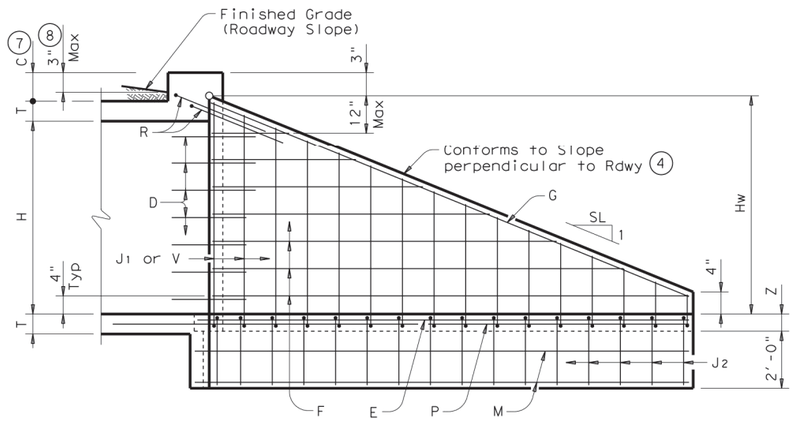
WING DIMENSION CALCULATIONS:

Formulas: (All values are in Feet)
Hw = H + T + C - 0.250'
A = (Hw - 0.333') (SL)
B = (A) Tangent (30°)
Lw = (A) ÷ Cosine (30°)
For Cast-in-place culverts:
Ltw = (N) (S) + (N + 1) (U)
For Precast culverts:
Ltw = (N) (2U + S) + (N - 1) (0.500')
Total Wingwall Area (Two Wings ~ S.F.) = (Hw + 0.333') (Lw)

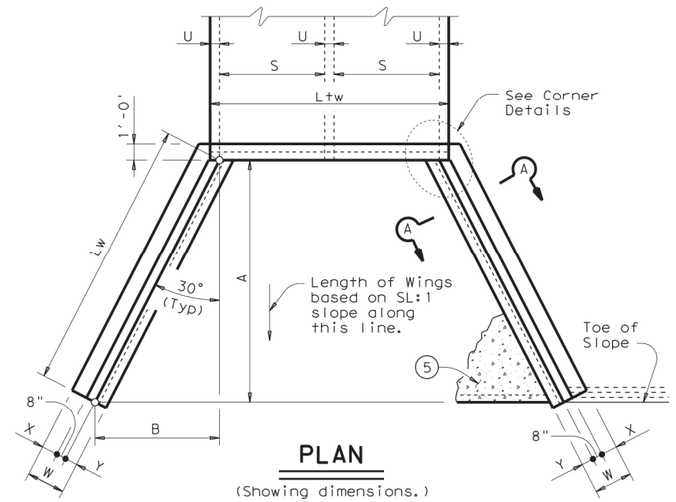
Hw = Height of Wingwall
SL:1 = Side Slope Ratio (Horizontal:1 Vertical)
Lw = Length of Wingwall
Ltw = Culvert Toewall Length
N = Number of Culvert Spans

See applicable box culvert standard for H, S, T, and U values.

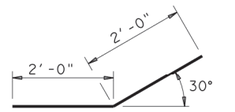
1. Extend Bars P 3'-0" minimum into bottom slab of Box Culvert.
2. Adjust to fit as necessary to maintain 1 ¼" clear cover and 4" minimum between bars.
3. Quantities shown are based on an average wing height for two wings (one structure end). To determine total quantities for two wings multiply the tabulated values by Lw.
4. Recommended values of Slope are: 2:1, 3:1, 4:1, & 6:1.
5. When shown elsewhere on the plans, a 5" deep concrete riprap shall be constructed. Payment for riprap shall be as required by Item 432, "Riprap". Unless otherwise shown on the plans or directed by the Engineer, the riprap shall have a 6" wide by 1'-6" deep reinforced concrete toewall along all edges adjacent to natural ground; the toewall shall be reinforced by extending typical riprap reinforcing into the toewall; construction joints or grooved joints, oriented in the direction of flow, shall extend across the full distance of the riprap, at intervals of approximately 20'. When such riprap is provided, the culvert toewall shown in SECTION B-B will not be required.
6. At Contractor's option, Culvert Toewall may be ended flush with Wingwall Toewall. Adjust reinforcing from that shown as necessary.
7. 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6 CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
8. For vehicle safety, curb heights and wall heights shall be reduced, if necessary, to provide a maximum 3" projection above finished grade. No changes will be made in quantities and no additional compensation will be allowed for this work.



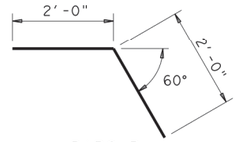
INSIDE ELEVATION
(Showing reinforcing. Culvert and Culvert Toewall reinforcing not shown for clarity.)



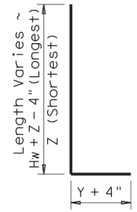
PLAN
(Showing dimensions.)



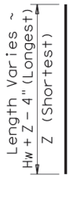
BARS D



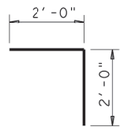
BARS R



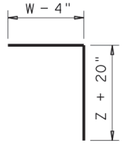
BARS J1



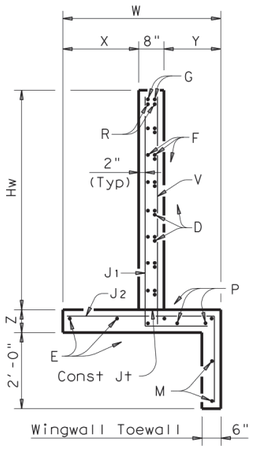
BARS V



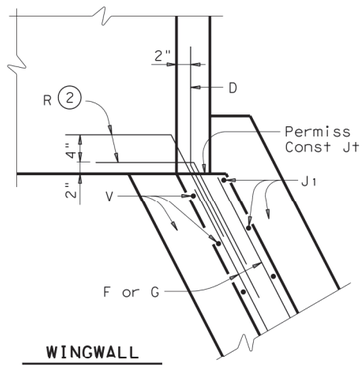
BARS L



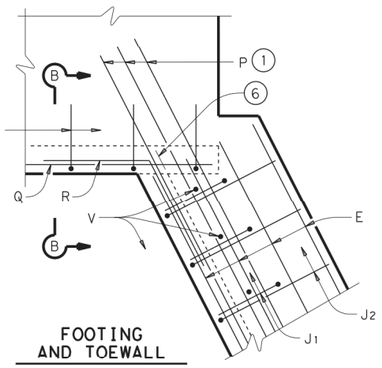
BARS J2



SECTION A-A

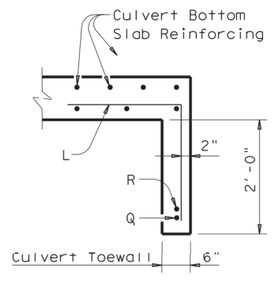


WINGWALL



FOOTING AND TOEWALL

CORNER DETAILS
(Culvert and Culvert Toewall reinforcing not shown for clarity.)



SECTION B-B ⑤

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.
All reinforcing steel shall be Grade 60.
Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.
All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.
All reinforcing bars shall be adjusted to provide a minimum of 1 ¼" clear cover.
When structure is founded on solid rock, depth of toewalls for culverts and wingwalls may be reduced or eliminated as directed by the Engineer.
See BCS sheet for additional dimensions and information.
The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for Contractor's information only.

Texas Department of Transportation | Bridge Division Standard

CONCRETE WINGWALLS
WITH FLARED WINGS FOR 0° SKEW BOX CULVERTS

FW-0

FILE: fw-0std.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
11-10: Add note for synthetic fibers.	DIST	COUNTY		SHEET NO. 140

DATE:
FILE:

Bid 1710-194

10/10/2017 6:54 AM

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TABLE OF DIMENSIONS & REINFORCING STEEL
(Wings for One Structure End)

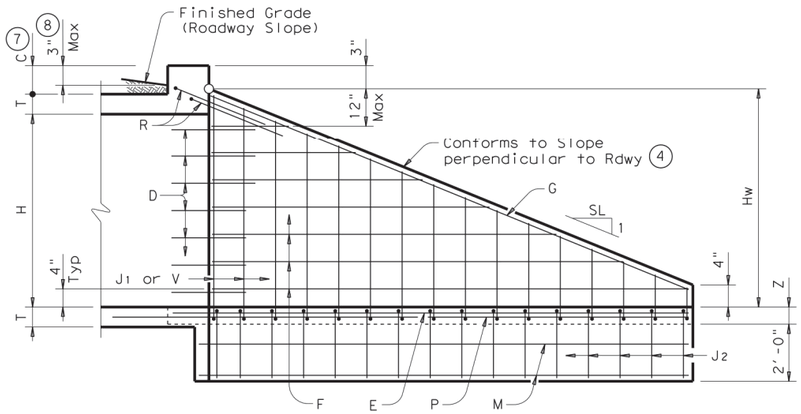
Dimensions					Variable Reinforcing				Estimated Quantities (3) per ft of wing length (2~Wings)	
					Bars J1		Bars J2			
Maximum Wingwall Height Hw	W	X	Y	Z	Size	Spa	Size	Spa	Reinf (Lb/Ft)	Conc (CY/Ft)
2'-6"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	33.73	0.248
3'-0"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	37.07	0.261
3'-6"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	37.74	0.273
4'-0"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	38.41	0.285
4'-6"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	41.75	0.330
5'-0"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	45.09	0.343
5'-6"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	45.75	0.355
6'-0"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	46.42	0.367
7'-0"	3'- 8"	1'- 9"	1'- 3"	7"	#4	1'-0"	#4	1'-0"	52.77	0.414
8'-0"	4'- 2"	2'- 0"	1'- 6"	8"	#5	1'-0"	#4	1'-0"	60.19	0.486
9'-0"	4'- 8"	2'- 3"	1'- 9"	8"	#4	6"	#4	6"	81.49	0.535
10'-0"	5'- 2"	2'- 6"	2'- 0"	8"	#5	6"	#4	6"	97.25	0.584
11'-0"	5'- 8"	2'- 9"	2'- 3"	8"	#6	6"	#5	6"	133.65	0.634
12'-0"	6'- 2"	3'- 0"	2'- 6"	9"	#7	6"	#5	6"	162.29	0.721
13'-0"	6'- 8"	3'- 3"	2'- 9"	11"	#7	6"	#5	6"	178.80	0.856
14'-0"	7'- 2"	3'- 6"	3'- 0"	1'- 0"	#8	6"	#5	6"	216.78	0.959
15'-0"	7'- 8"	4'- 0"	3'- 0"	1'- 1"	#9	6"	#6	6"	283.06	1.068
16'-0"	8'- 2"	4'- 6"	3'- 0"	1'- 3"	#9	6"	#6	6"	297.02	1.234

TABLE OF WINGWALL REINFORCING (2~Wings)

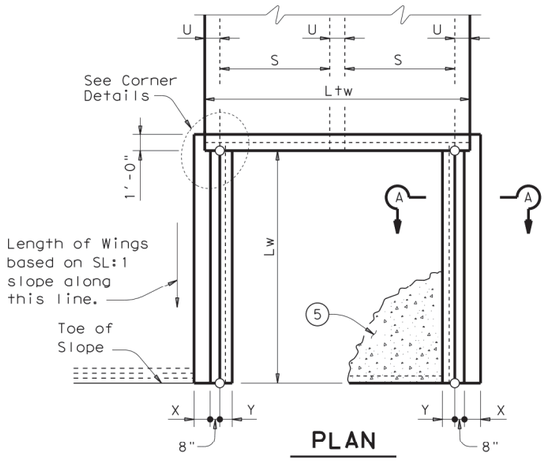
Bar	Size	No.	Spa
D	#5	~	1'-0"
E	#4	~	1'-0"
F	#4	~	1'-0"
G	#6	4	~
M	#4	4	~
P	#4	~	1'-0"
R	#5	6	~
V	#4	~	1'-0"

TABLE OF ESTIMATED CULVERT TOEWALL QUANTITIES

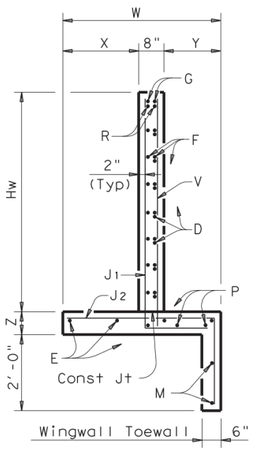
Bar	Size	No.	Spa
L	#4	~	1'-6"
Q	#4	1	~
Reinf (Lb/Ft)			2.45
Conc (CY/Ft)			0.037



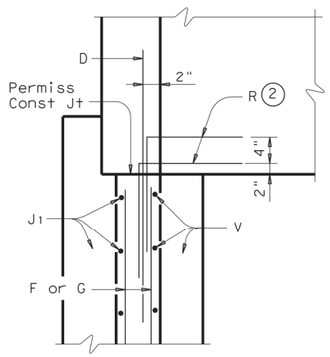
INSIDE ELEVATION
(Showing reinforcing. Culvert and Culvert Toewall reinforcing not shown for clarity.)



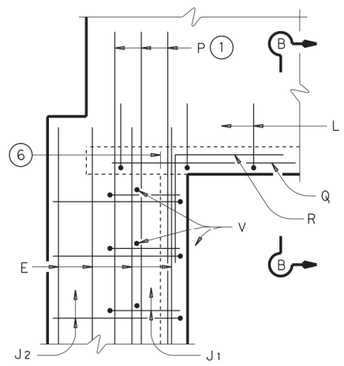
PLAN
(Showing Dimensions)



SECTION A-A

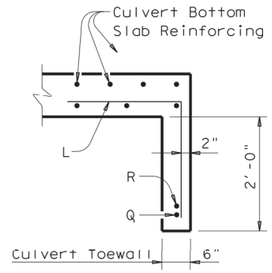


WINGWALL



FOOTING AND TOEWALL

CORNER DETAILS



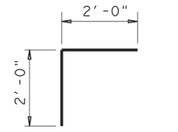
SECTION B-B (5)

WING DIMENSION CALCULATIONS:

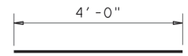
Formulas: (All values are in Feet)
Hw = H + T + C - 0.250'
Lw = (Hw - 0.333') (SL)
For Cast-in-place culverts:
Ltw = (N) (S) + (N+1) (U)
For Precast culverts:
Ltw = (N) (2U + S) + (N - 1) (0.5')
Total Wingwall Area (Two Wings ~ S.F.) = (Hw + 0.333') (Lw)

Hw = Height of Wingwall
SL:1 = Side Slope Ratio (Horizontal:1 Vertical)
Lw = Length of Wingwall
Ltw = Culvert Toewall Length
N = Number of Culvert Spans

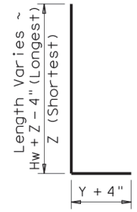
See applicable box culvert standard for H, S, T, and U values.



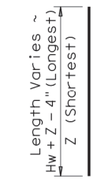
BARS R



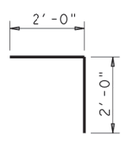
BARS D



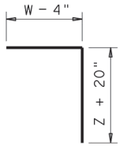
BARS J1



BARS V



BARS L



BARS J2

1. Extend Bars P 3'-0" minimum into bottom slab of Box Culvert.
2. Adjust to fit as necessary to maintain 1 1/4" clear cover and 4" minimum between bars.
3. Quantities shown are based on an average wing height for two wings (one structure end). To determine total quantities for two wings multiply the tabulated values by Lw.
4. Recommended values of Slope are: 2:1, 3:1, 4:1, & 6:1.
5. When shown elsewhere on the plans, a 5" deep concrete riprap shall be constructed. Payment for riprap shall be as required by Item 432, "Riprap". Unless otherwise shown on the plans or directed by the Engineer, the riprap shall have a 6" wide by 1'-6" deep reinforced concrete toewall along all edges adjacent to natural ground; the toewall shall be reinforced by extending typical riprap reinforcing into the toewall; construction joints or grooved joints, oriented in the direction of flow, shall extend across the full distance of the riprap, at intervals of approximately 20'. When such riprap is provided, the culvert toewall shown in SECTION B-B will not be required.
6. At Contractor's option, Culvert Toewall may be ended flush with Wingwall Toewall. Adjust reinforcing from that shown as necessary.
7. 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
8. For vehicle safety, curb heights and wall heights shall be reduced, if necessary, to provide a maximum 3" projection above finished grade. No changes will be made in quantities and no additional compensation will be allowed for this work.

GENERAL NOTES:
Designed according to AASHTO LRFD Specifications.
All reinforcing steel shall be Grade 60.
Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.
All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.
All reinforcing bars shall be adjusted to provide a minimum of 1 1/4" clear cover.
When structure is founded on solid rock, depth of toewalls for culverts and wingwalls may be reduced or eliminated as directed by the Engineer.
See BCS sheet for additional dimensions and information.
The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for Contractor's information only.

Texas Department of Transportation

Bridge Division Standard

CONCRETE WINGWALLS
WITH STRAIGHT WINGS FOR 0° SKEW BOX CULVERTS

SW-O

FILE: sw-0stde.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
11-10: Add note for synthetic fibers.	DIST	COUNTY		SHEET NO.
				141

DATE:
FILE:

Bid 1710-194

Williamson County, Texas

10/10/2017 6:54 AM

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TABLE OF DIMENSIONS & REINFORCING STEEL
(Wings for One Structure End)

Maximum Wingwall Height Hw	W	X	Y	Z	Variable Reinforcing Bars J1 Size	Bars J1 Spa	Bars J2 Size	Bars J2 Spa	Estimated Quantities (3) per ft of wing length (2~Wings) Reinf (Lb/Ft)	Conc (CY/Ft)
2'-6"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	33.73	0.248
3'-0"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	37.07	0.261
3'-6"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	37.74	0.273
4'-0"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	38.41	0.285
4'-6"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	41.75	0.330
5'-0"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	45.09	0.343
5'-6"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	45.75	0.355
6'-0"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	46.42	0.367
7'-0"	3'- 8"	1'- 9"	1'- 3"	7"	#4	1'-0"	#4	1'-0"	52.77	0.414
8'-0"	4'- 2"	2'- 0"	1'- 6"	8"	#5	1'-0"	#4	1'-0"	60.19	0.486
9'-0"	4'- 8"	2'- 3"	1'- 9"	8"	#4	6"	#4	6"	81.49	0.535
10'-0"	5'- 2"	2'- 6"	2'- 0"	8"	#5	6"	#4	6"	97.25	0.584
11'-0"	5'- 8"	2'- 9"	2'- 3"	8"	#6	6"	#5	6"	133.65	0.634
12'-0"	6'- 2"	3'- 0"	2'- 6"	9"	#7	6"	#5	6"	162.29	0.721
13'-0"	6'- 8"	3'- 3"	2'- 9"	11"	#7	6"	#5	6"	178.80	0.856
14'-0"	7'- 2"	3'- 6"	3'- 0"	1'- 0"	#8	6"	#5	6"	216.78	0.959
15'-0"	7'- 8"	4'- 0"	3'- 0"	1'- 1"	#9	6"	#6	6"	283.06	1.068
16'-0"	8'- 2"	4'- 6"	3'- 0"	1'- 3"	#9	6"	#6	6"	297.02	1.234

TABLE OF WINGWALL REINFORCING (2~Wings)

Bar	Size	No.	Spa
DL	#5	~	1'-0"
DS	#5	~	1'-0"
E	#4	~	1'-0"
F	#4	~	1'-0"
G	#6	4	~
M	#4	4	~
P	#4	~	1'-0"
RS	#5	3	~
RL	#5	3	~
V	#4	~	1'-0"

TABLE OF ESTIMATED CULVERT TOEWALL QUANTITIES

Bar	Size	No.	Spa
L	#4	~	1'-6"
Q	#4	1	~
Reinf (Lb/Ft)			2.45
Conc (CY/Ft)			0.037

WING DIMENSION CALCULATIONS:

Formulas: (All values are in Feet)

Hw = H + T + C − 0.250′

A = (Hw − 0.333′) (SL)

B = (A) [Tangent (θ + 15°)]

Lw = (A) ÷ [Cosine (θ + 15°)]

For Cast-in-place culverts:

Ltw = [(N) (S) + (N + 1) (U)] ÷ (Cosine θ)

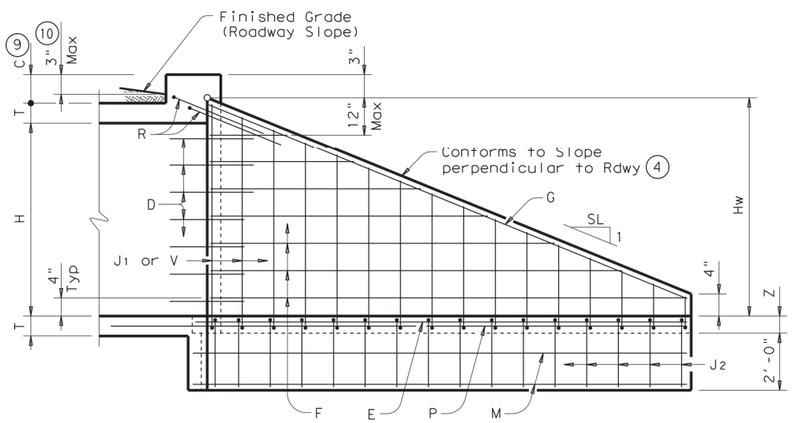
For Precast culverts:

Ltw = [(N) (2U + S) + (N − 1) (0.500′)] ÷ (Cosine θ)

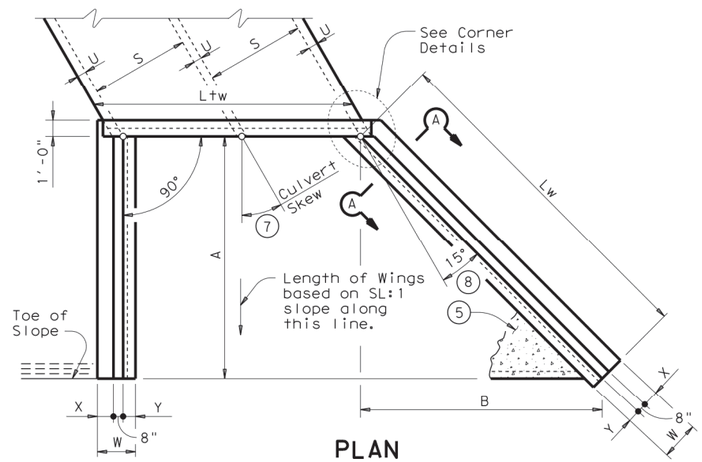
Total Wingwall Area (Two Wings ~ S.F.) =
(0.5) (Hw + 0.333′) (Lw + A)

Hw = Height of Wingwall
SL:1 = Side Slope Ratio (Horizontal:1 Vertical)
A = Length of Short Wingwall
Lw = Length of Long Wingwall
Ltw = Culvert Toewall Length
N = Number of Culvert Spans
θ = Culvert Skew

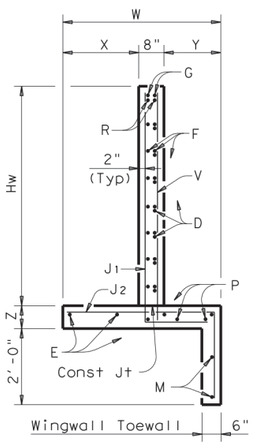
See applicable box culvert standard for H, S, T, and U values.



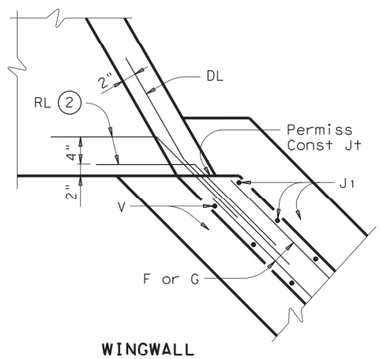
INSIDE ELEVATION
(Showing reinforcing. Culvert and Culvert Toewall reinforcing not shown for clarity.)



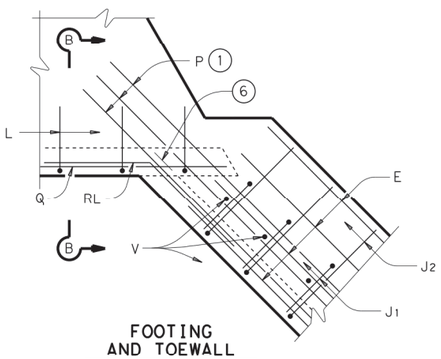
PLAN
(Showing dimensions and 30° Skew.)



SECTION A-A

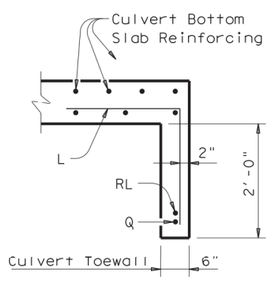


WINGWALL



FOOTING AND TOEWALL

CORNER DETAILS
(Culvert and Culvert Toewall reinforcing not shown for clarity.)



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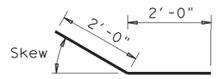
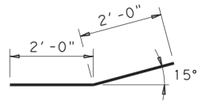


BARS DS
(Short Wing)



BARS DL
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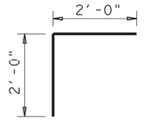

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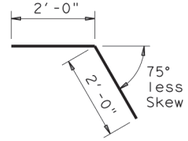
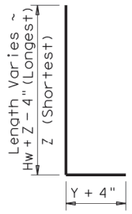
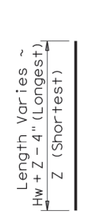


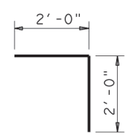
BARS RL
(Long Wing)



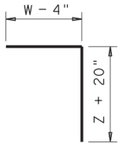
BARS J1



BARS V



BARS L



BARS J2

1. Extend Bars P 3′-0" minimum into bottom slab of Box Culvert.
2. Adjust to fit as necessary to maintain 1 ¼" clear cover and 4" minimum between bars.
3. Quantities shown are based on an average wing height for two wings (one structure end). To determine total quantities for two wings multiply the tabulated values by 0.5 x (A+Lw).
4. Recommended values of Slope are: 2:1, 3:1, 4:1, & 6:1.
5. When shown elsewhere on the plans, a 5" deep concrete riprap shall be constructed. Payment for riprap shall be as required by Item 432, "Riprap". Unless otherwise shown on the plans or directed by the Engineer, the riprap shall have a 6" wide by 1′-6" deep reinforced concrete toewall along all edges adjacent to natural ground; the toewall shall be reinforced by extending typical riprap reinforcing into the toewall; construction joints or grooved joints, oriented in the direction of flow, shall extend across the full distance of the riprap, at intervals of approximately 20′. When such riprap is provided, the culvert toewall shown in SECTION B-B will not be required.
6. At Contractor's option, Culvert Toewall may be ended flush with Wingwall Toewall. Adjust reinforcing from that shown as necessary.
7. Applicable values of of Skew are: 15°, 30°, and 45°.
8. Typical wingwall angle for all skews.
9. 0" min to 5′-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1′-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
10. For vehicle safety, curb heights and wall heights shall be reduced, if necessary, to provide a maximum 3" projection above finished grade. No changes will be made in quantities and no additional compensation will be allowed for this work.

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

All reinforcing steel shall be Grade 60.

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

All reinforcing bars shall be adjusted to provide a minimum of 1 ¼" clear cover.

When structure is founded on solid rock, depth of toewalls for culverts and wingwalls may be reduced or eliminated as directed by the Engineer.

See BCS sheet for additional dimensions and information.

The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for Contractor's information only.

Texas Department of Transportation

Bridge Division Standard

CONCRETE WINGWALLS
WITH FLARED WINGS FOR SKEWED BOX CULVERTS

FW-S

FILE:	fw-sstde.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: GAF
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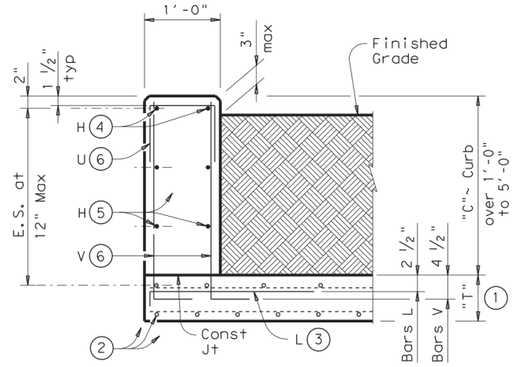
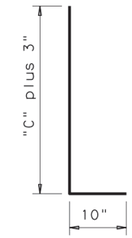
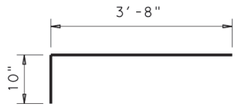


TYPICAL SECTION

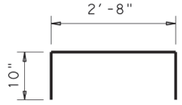
Used for Curbs over 1'-0" to 5'-0"



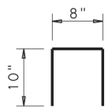
BARS V (#5) (6)
Spaced at 12" max



BARS L (#5) (3)
Spaced at 12" max



OPTIONAL BARS L (#5) (3)(7)
Spaced at 12" max



BARS U (#4) (6)
Spaced at 12" max

(1) "T" is equal to the culvert top slab thickness. For Precast Boxes with slabs less than 7", see SCP-MD Standard for additional details.

(2) Normal culvert slab bars adjusted as necessary to clear obstructions.

(3) Place bars L as shown. Tilt hook as necessary to maintain cover.

(4) Place normal culvert curb bars H (#4) as shown. Adjust as necessary to clear obstructions.

(5) Additional bars H (#4) as required to maintain 12" max spa.

(6) Replace normal culvert curb bars K with one bar U and two bars V as shown spaced at 12" max. Adjust length of bars V as necessary to maintain clear cover.

(7) Optional bars L are to be used only for precast box culverts with 3'-0" closure pour.

(8) Quantities shown are for contractor's information only. Quantities are per linear foot of curb length. The values for each section type in table can be interpolated for intermediate values of curb height, "C". Quantity includes bars K (when applicable).

TABLE OF ESTIMATED CURB QUANTITIES (8)

Curb Height "C"	Conc (CY/LF)	Reinf Steel (Lb/LF)
1'-0"	0.037	8.9
1'-6"	0.056	14.3
2'-0"	0.074	15.4
2'-6"	0.093	17.7
3'-0"	0.111	18.8
3'-6"	0.130	21.2
4'-0"	0.148	22.2
4'-6"	0.167	24.6
5'-0"	0.185	25.6

GENERAL NOTES:

Designed according to current AASHTO LRFD Specifications.

These extended curb details have sufficient strength to allow for future retrofit of Type T6 railing. These details are suitable for use with PR1, PR2 and PR3 type rails. These details are not suitable for the mounting of other rail types. For new construction using T6 railing, use the T6-CM standards.

All reinforcing shall be Grade 60. Adjust reinforcing as necessary to provide 1 ¼" cover.

All concrete for curbs shall be Class "C" with a minimum compressive strength of 3600 psi.

This Curb shall be considered as part of the Box Culvert for payment.

For vehicle safety, the top of the curb shall project no more than 3" above the finished grade.

Texas Department of Transportation

Bridge Division Standard

EXTENDED CURB DETAILS

FOR BOX CULVERTS WITH CURBS OVER 1'-0" TO 5'-0" TALL

ECD

FILE: ecdstde1.dgn	DN: GAF	CK:	DW: TxDOT	CK: GAF
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REVISIONS				
	DIST	COUNTY		SHEET NO.
				143

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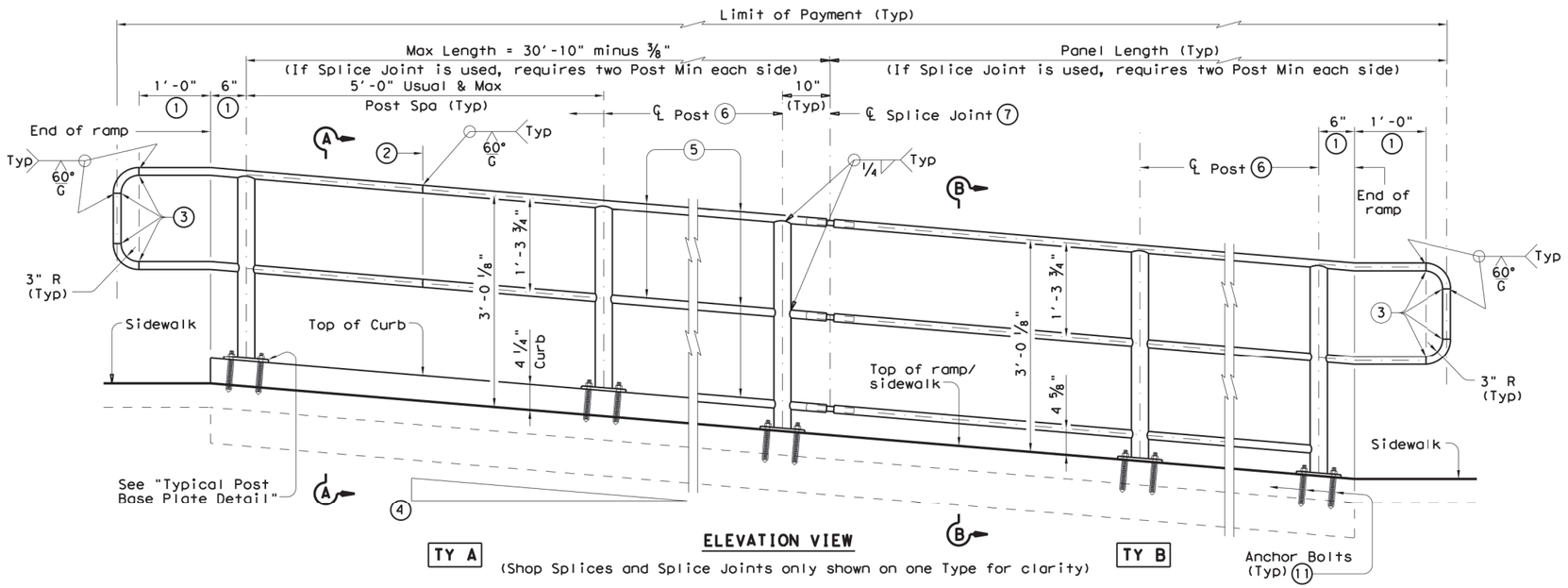
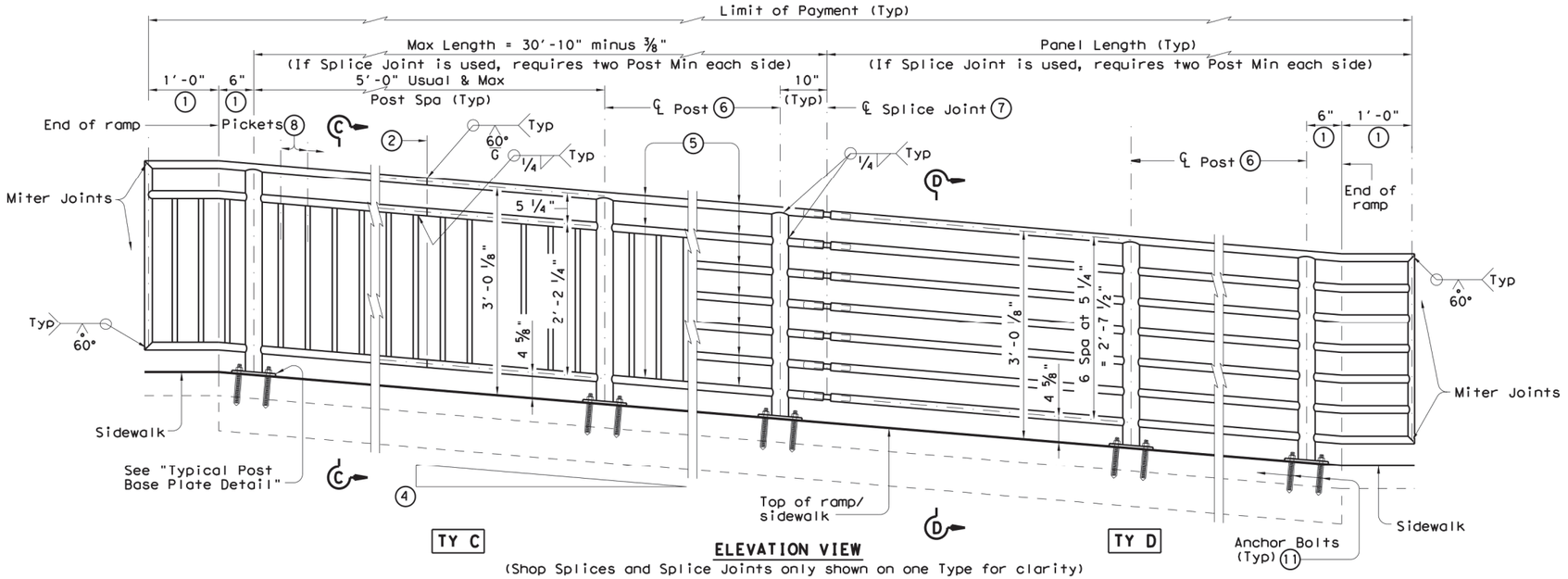
FILE: prd1710-194



ELEVATION VIEW

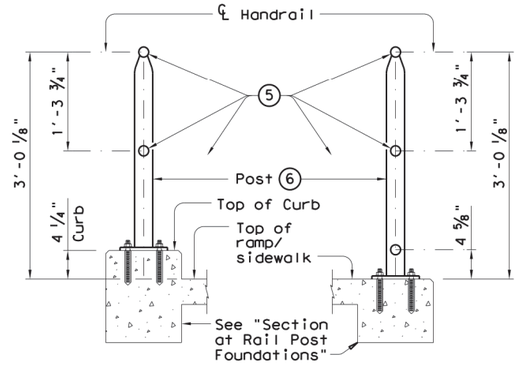
(Shop Splices and Splice Joints only shown on one Type for clarity)



ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

RECOMMENDED USAGE ⑨⑩	
Dropoff Height/ Condition	Recommended Rail Options
<30" dropoff	TY A, TY B, TY C, or TY D
≥ 30" dropoff, or along Bike Path	TY E or TY F

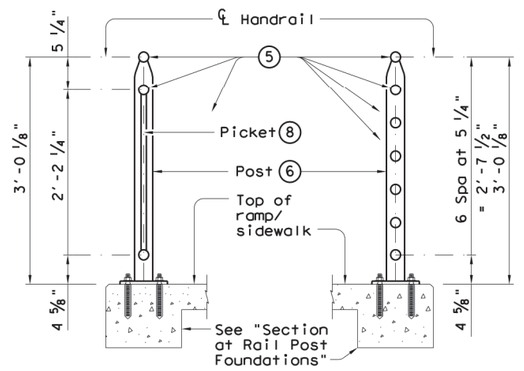


SECTION A-A

(Showing Handrail **TY A**)

SECTION B-B

(Showing Handrail **TY B**)



SECTION C-C

(Showing Handrail **TY C**)

SECTION D-D

(Showing Handrail **TY D**)

1. Parallel to ground.
2. One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
3. Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
4. See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.
5. 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.
6. 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.
7. See "Handrail Fabrication Details" for Splice Joints.
8. ℄ ⅝" Dia. Round Bar equal spacing at 4 ½" Max. Plumb all pickets.
9. When needed for accessibility (grade > 5 percent) or as needed for pedestrian safety.
10. Not to be used on bridges.
11. See "General Notes" for anchor bolt information.

SHEET 1 OF 3

Texas Department of Transportation

Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
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REVISIONS REVISED MAY, 2013 (VP)	DIST	COUNTY		SHEET NO.
				144

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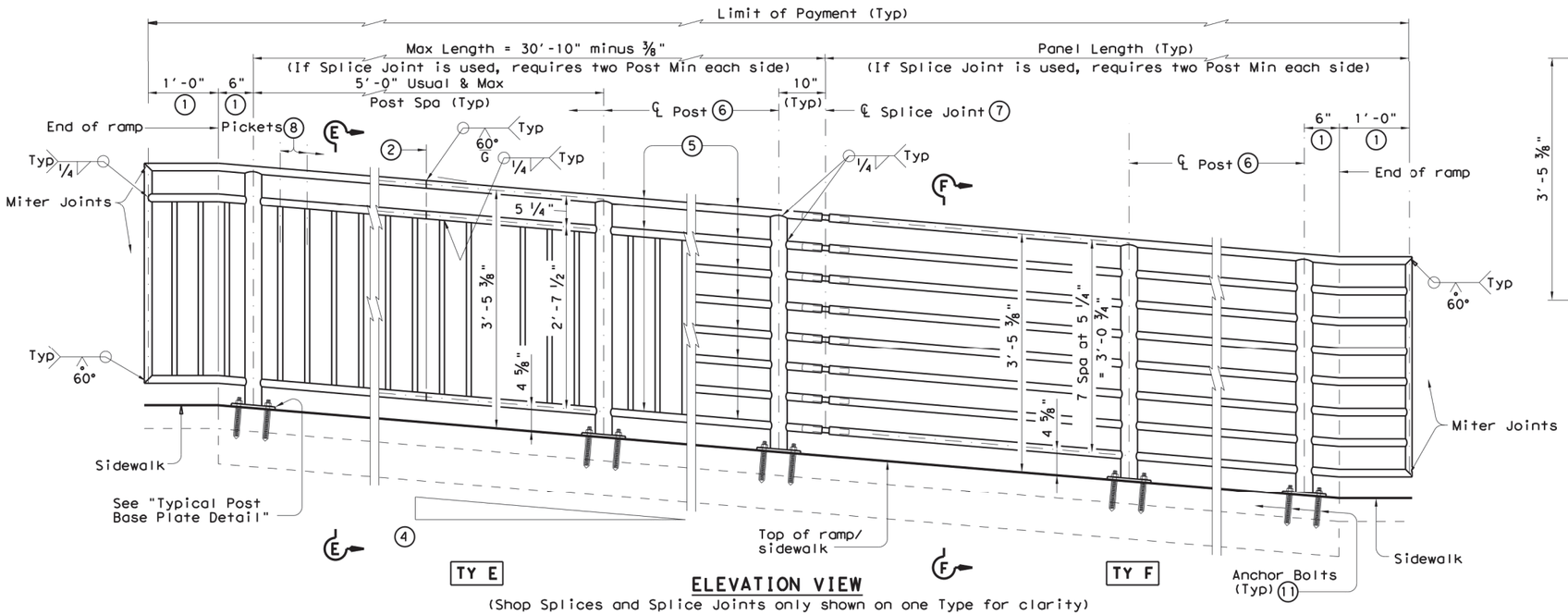
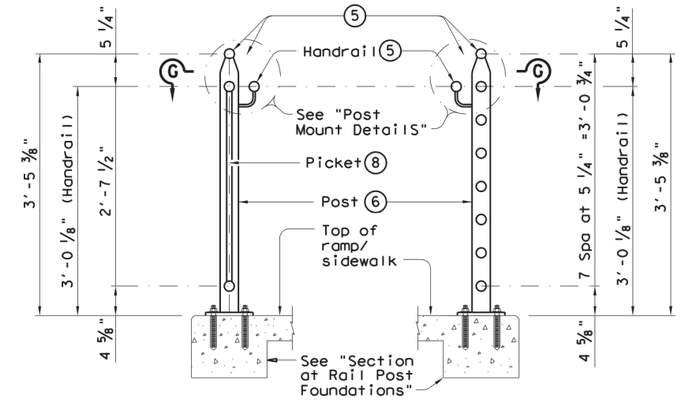


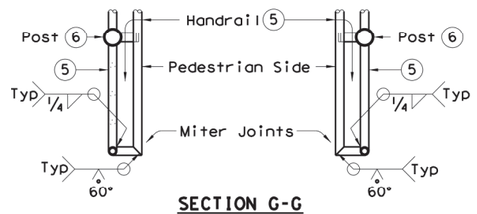
ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

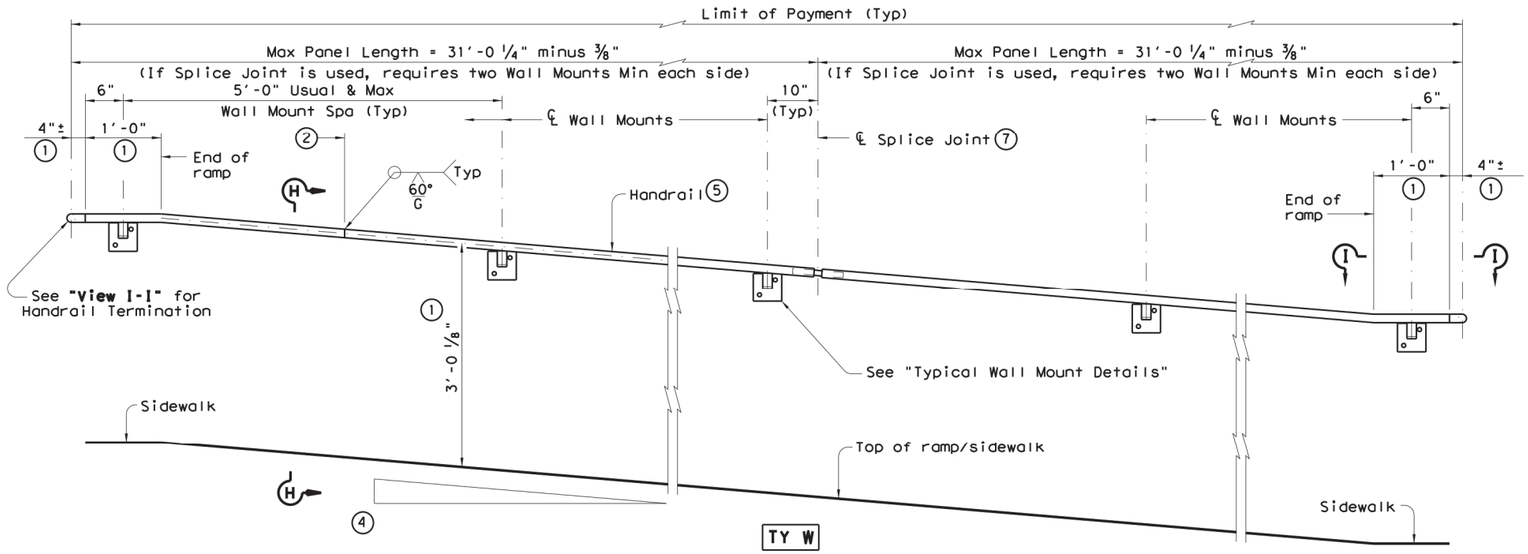


SECTION E-E
(Showing Handrail **TY E**)

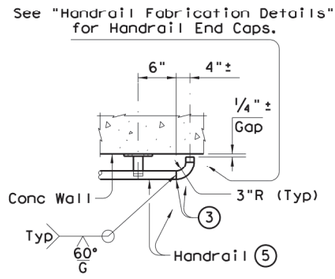
SECTION F-F
(Showing Handrail **TY F**)



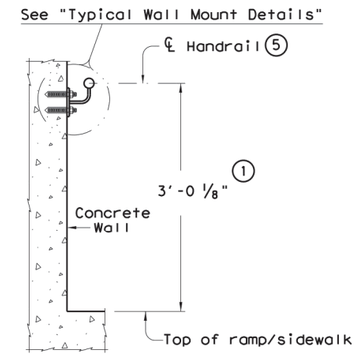
SECTION G-G
(Showing Handrail Termination)



ELEVATION VIEW



VIEW I-I
(Showing Handrail Termination)



SECTION H-H
(Showing Handrail **TY W**)

1. Parallel to ground.
2. One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
3. Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
4. See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.
5. 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.
6. 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.
7. See "Handrail Fabrication Details" for Splice Joints.
8. ℄ ⅝" Dia. Round Bar equal spacing at 4 ½" Max. Plumb all pickets.
11. See "General Notes" for anchor bolt information.

Texas Department of Transportation — Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
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REVISIONS REVISED MAY, 2013 (VP)	DIST	COUNTY		SHEET NO. 145

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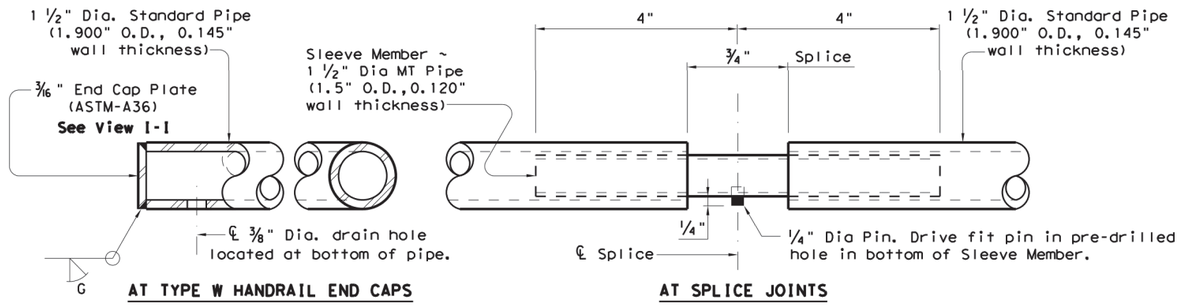
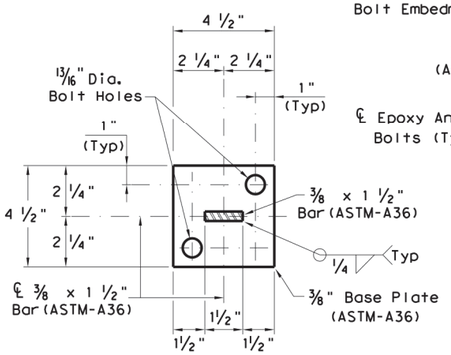
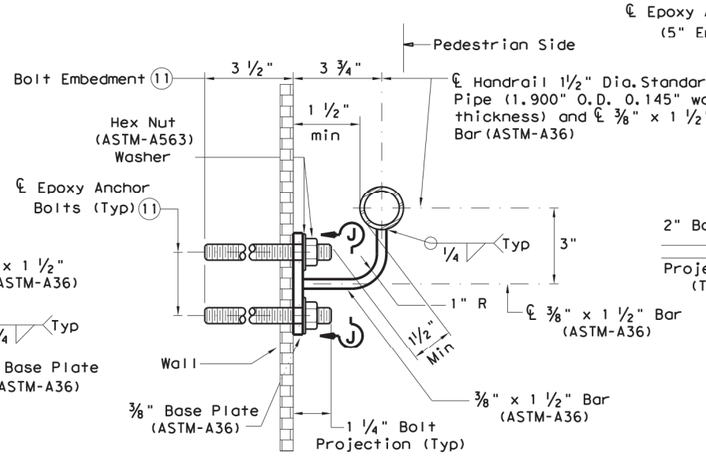
DATE:
FILE: prd1710-194



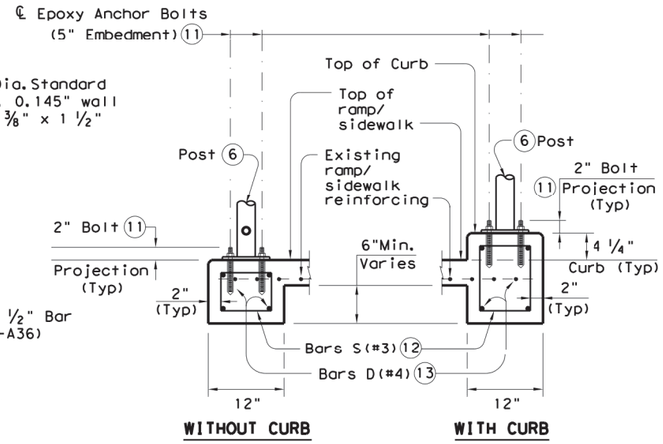
HANDRAIL FABRICATION DETAILS



SECTION J-J
(Anchor Bolts not shown for clarity)

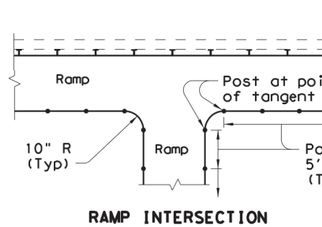


SECTION AT WALL MOUNT

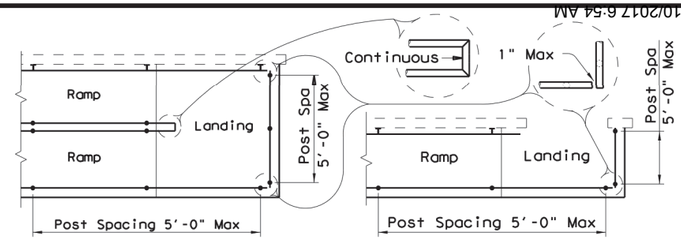


SECTION AT RAIL POST FOUNDATIONS

TYPICAL WALL MOUNT DETAILS



RAMP INTERSECTION



MULTI-LEVEL RAMP

SINGLE-LEVEL RAMP

PLAN SHOWING RAIL AT RAMP CONDITIONS

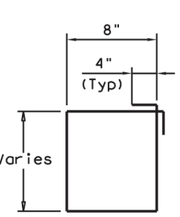
(5) 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp/sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.

(6) 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). Plumb all posts. See "Post Mount Detail" for crimping and trimming post to fit the diamenter of top rail. Provide holes as needed in post for galvanizing drainage and venting.

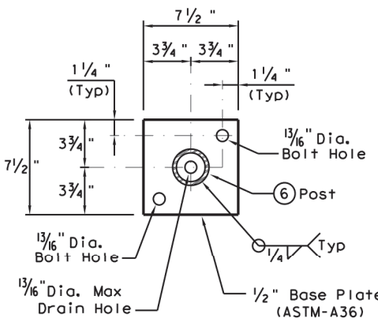
(11) See "General Notes" for anchor bolt information.

(12) Bars S(#3) spaced at 12" Max (Spaced 3" from outside edge of overall length of Ramp/Sidewalk).

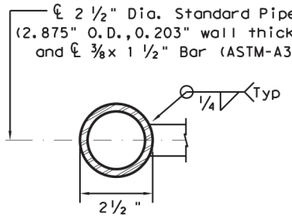
(13) Provide 1 ½" end cover to Bars D(#4) from outside edge of overall length of Ramp/Sidewalk.



BARS S (#3)



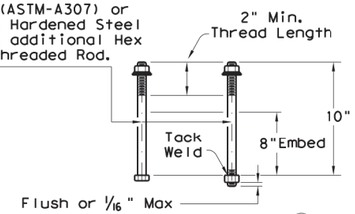
TYPICAL POST BASE PLATE DETAIL



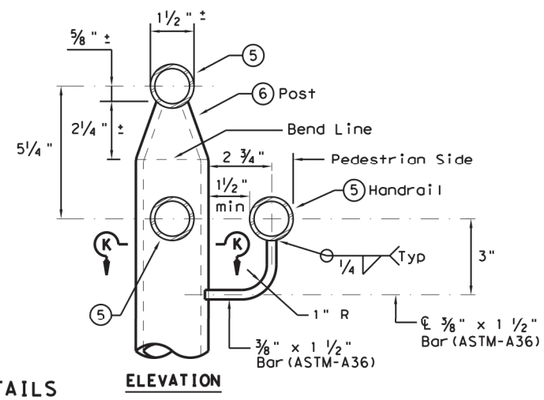
SECTION K-K

POST MOUNT DETAILS

℄ 5/8" Dia. Hex Head Anchor Bolt (ASTM-A307) or Threaded Rod (ASTM-A36) with one Hardened Steel Washer placed under Hex Nut. One additional Hex Nut will be furnished for each Threaded Rod.



CAST-IN-PLACE ANCHOR BOLT OPTIONS (11)
(Used for Post Base Plate only)



ELEVATION

GENERAL NOTES

Designed according to ADAAG, Texas Accessibility Standards, Uniform Building Code, and AASHTO LRFD Specifications.

Handrail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications.

Pipe will conform to ASTM-A53 Grade B or A500 Grade B. Steel plates and steel bars will conform to ASTM-A36. Mechanical tubing (MT) will conform to ASTM A513 Grade 1015 or higher. Galvanize all steel components except reinforcing steel unless noted otherwise.

Concrete for foundations will be in accordance with Item 531 "Sidewalks". All reinforcing steel must be Grade 60. Bar laps, where required, will be as follows: Uncoated ~ #4 = 1'-5" Epoxy coated ~ #4 = 2'-1"

When the plans require painted steel, follow the requirements for painting galvanized steel in Item 446, "Cleaning and Painting Steel". Sleeve Members will receive galvanization and only get field painted after installation unless directed otherwise by Engineer.

Epoxy Anchor bolts for wall mount and post base plate will be ⅝" Dia. ASTM A36 threaded rods with one hex nut and one hardened steel washer at each bolt. ⅝" Dia. threaded rod embedment depth for wall mounts is 3 ½" and embedment depth for post base plate is 5".

Embed threaded rods into concrete with a Type III (Class C) epoxy meeting the requirements of DMS-6100, "Epoxies and Adhesives". Mix and dispense adhesive with the manufacturer's static mixing nozzle/dual cartridge system. Core drill holes (percussion drilling not permitted).

At the contractor's option the post base plate anchor bolts may be cast with the Ramp/Sidewalk (See Cast-in-Place Anchor Bolt Options).

Optional cast-in-place anchor bolts will be ⅝" Dia ASTM A307 Grade A bolts (or A36 threaded rods with one tack welded hex nut each) with one hex nut and one hardened steel washer at each bolt. Embedment depth of cast-in-place bolt will be 8" for post base plate.

Handrails and any wall or other surface adjacent to them will be free of any sharp or abrasive elements.

Submit shop drawings to the Engineer unless otherwise noted. For curved handrail applications, fabricate the handrail to the curve if radius is less than 600 ft. Shop drawings are required when rail is fabricated to the curve.

For all handrails, erection drawings will be submitted to the Engineer for approval to ensure proper installation.

Drawings will show handrail mount locations with bolts setting, spacing, ramp slope, and/or splice joint locations, and handrail lengths with identification showing where each handrail goes on the layout.

Payment for concrete sidewalks or curb ramps will be paid for in accordance with Item 531 "Sidewalks".

Payment for all items shown is to be included in unit price bid in accordance with Item 450 "Railing" of the type specified.

All exposed edges will be rounded or chamfered to approximately ⅛" by grinding.

Texas Department of Transportation

Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

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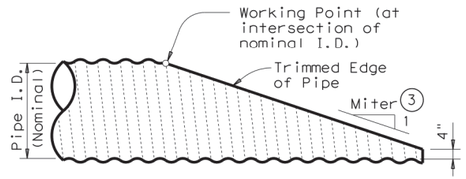
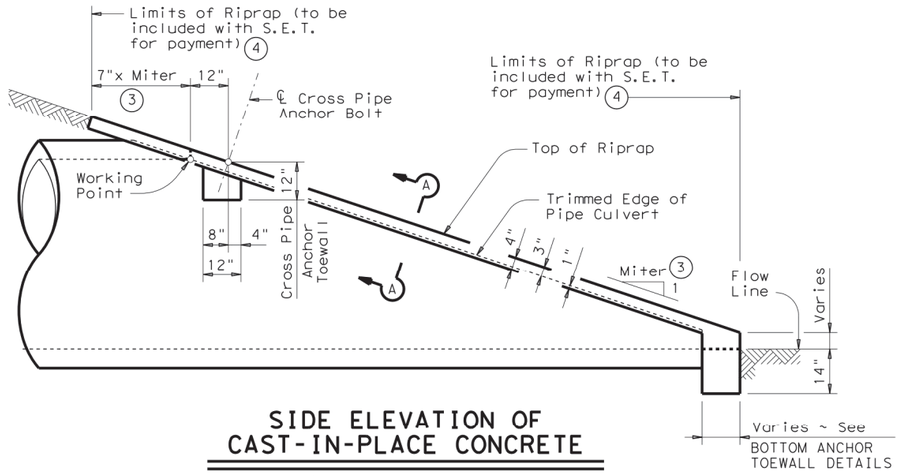


NOTE: All Pipe Runners, calculations, and dimensions are based on the pipe culverts mitered as shown in this detail. Alternate styles of mitered ends will require that appropriate adjustments be made to the values presented on this standard.

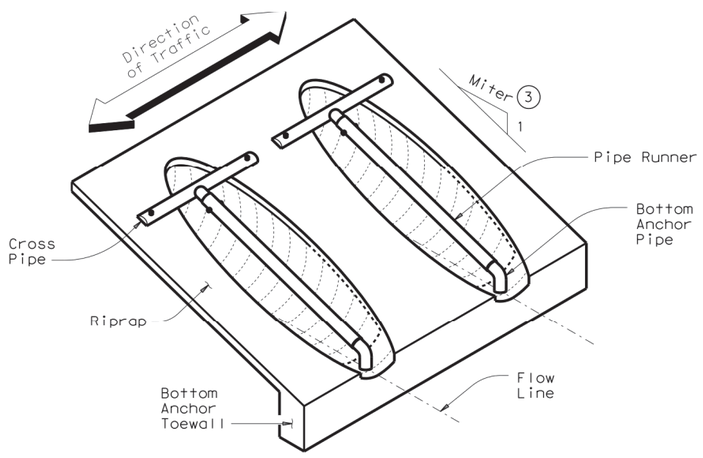
SIDE ELEVATION OF TYPICAL PIPE CULVERT MITER

(Showing Corrugated Metal Pipe Culvert.
Details of Concrete Pipe Culvert are similar.)



SIDE ELEVATION OF CAST-IN-PLACE CONCRETE

(Showing Concrete Pipe Culvert.
Details of Corrugated Metal Pipe Culvert are similar.
Pipe Runners not shown for clarity)



ISOMETRIC VIEW OF TYPICAL INSTALLATION

(Showing installation with no skew.)

CROSS PIPE LENGTHS & PIPE RUNNER LENGTHS (1) (2)

Nominal Culvert I.D.	Pipe Culvert Spa ~ G	Cross Pipe Length	Pipe Runner Length											
			3:1 Side Slope				4:1 Side Slope				6:1 Side Slope			
			0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew
24"	1'- 7"	3'- 5"	N/A	N/A	N/A	5'-10"	N/A	N/A	N/A	8'- 1"	N/A	N/A	N/A	12'- 9"
27"	1'- 8"	3'- 8"	N/A	N/A	5'- 5"	6'-11"	N/A	N/A	7'- 7"	9'- 7"	N/A	N/A	11'-11"	14'-11"
30"	1'-10"	3'-11"	N/A	N/A	6'- 4"	8'- 0"	N/A	N/A	8'- 9"	11'- 0"	N/A	N/A	13'- 8"	17'- 0"
33"	1'-11"	4'- 2"	6'- 2"	6'- 5"	7'- 3"	9'- 1"	8'- 6"	8'-10"	10'- 0"	12'- 5"	13'- 3"	13'- 9"	15'- 5"	19'- 2"
36"	2'- 1"	4'- 5"	6'-11"	7'- 3"	8'- 2"	10'- 2"	9'- 6"	9'-11"	11'- 2"	13'-10"	14'- 9"	15'- 3"	17'- 2"	21'- 3"
42"	2'- 4"	4'-11"	8'- 6"	8'-10"	9'-11"	12'- 4"	11'- 7"	12'- 0"	13'- 6"	16'- 8"	17'- 9"	18'- 5"	20'- 8"	25'- 7"
48"	2'- 7"	5'- 5"	10'- 1"	10'- 5"	11'- 9"	N/A	13'- 7"	14'- 2"	15'-10"	N/A	20'- 9"	21'- 6"	24'- 2"	N/A
54"	3'- 0"	5'-11"	11'- 8"	12'- 1"	N/A	N/A	15'- 8"	16'- 3"	N/A	N/A	23'-10"	24'- 8"	N/A	N/A
60"	3'- 3"	6'- 5"	13'- 3"	N/A	N/A	N/A	17'- 9"	N/A	N/A	N/A	26'-10"	N/A	N/A	N/A

TYPICAL PIPE CULVERT MITERS (3)

Side Slope	0° Skew	15° Skew	30° Skew	45° Skew
3:1	3:1	3.106:1	3.464:1	4.243:1
4:1	4:1	4.141:1	4.619:1	5.657:1
6:1	6:1	6.212:1	6.928:1	8.485:1

CONDITIONS WHERE PIPE RUNNERS (2) ARE NOT REQUIRED

Nominal Culvert I.D.	Single Pipe Culvert	Multiple Pipe Culverts
12" thru 21"	Skews thru 45°	Skews thru 45°
24"	Skews thru 45°	Skews thru 30°
27"	Skews thru 30°	Skews thru 15°
30"	Skews thru 15°	Skews thru 15°
33"	Skews thru 15°	Always required
36"	Normal (No Skew)	Always required
42" to 60"	Always required	Always required

STANDARD PIPE SIZES & MAX PIPE RUNNER LENGTHS (1)

Pipe Size	Pipe O.D.	Pipe I.D.	Max Pipe Runner Length
2" STD	2.375"	2.067"	N/A
3" STD	3.500"	3.068"	10'- 0"
4" STD	4.500"	4.026"	19'- 8"
5" STD	5.563"	5.047"	34'- 2"

ESTIMATED CONCRETE RIPRAP QUANTITIES (CY) (5)

Nominal Culvert I.D.	3:1 Side Slope				4:1 Side Slope				6:1 Side Slope			
	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew
12"	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.8
15"	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9
18"	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9	1.0
21"	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9	0.9	0.9	1.0	1.2
24"	0.6	0.7	0.7	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.1	1.3
27"	0.7	0.7	0.8	0.9	0.8	0.9	0.9	1.1	1.1	1.1	1.2	1.4
30"	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.2	1.2	1.2	1.3	1.6
33"	0.8	0.8	0.9	1.0	1.0	1.0	1.1	1.3	1.3	1.4	1.5	1.7
36"	0.9	0.9	0.9	1.1	1.1	1.1	1.2	1.4	1.4	1.5	1.6	1.8
42"	1.0	1.0	1.1	1.3	1.2	1.3	1.3	1.6	1.6	1.7	1.8	2.1
48"	1.1	1.1	1.2	N/A	1.4	1.4	1.5	N/A	1.9	1.9	2.1	N/A
54"	1.3	1.3	N/A	N/A	1.6	1.6	N/A	N/A	2.1	2.1	N/A	N/A
60"	1.4	N/A	N/A	N/A	1.7	N/A	N/A	N/A	2.3	N/A	N/A	N/A

(1) Size of Pipe Runner shall be as shown in the tables. Cross Pipe shall be the same size as the Pipe Runner. Cross Pipe Stub Out and Bottom Anchor Pipe shall be the next smaller size pipe as shown in the STANDARD PIPE SIZES table.

(2) This standard allows for the placement of only one pipe runner across each culvert pipe opening. In order to limit the clear opening to be traversed by an errant vehicle, the following conditions must be met:

For 60" culvert pipes, the skew must not exceed 0°.
For 54" culvert pipes, the skew must not exceed 15°.
For 48" culvert pipes, the skew must not exceed 30°.
For all culvert pipe sizes 42" and less, the skew must not exceed 45°.

If the above conditions cannot be met, the designer should consider using a safety end treatment with flared wings. For further information, refer to the TxDOT "Roadway Design Manual".

(3) Miter = Slope of Mitered Pipe Culvert End

(4) Riprap placed beyond the limits shown will be paid as Concrete Riprap in accordance with Item 432, "Riprap".

(5) Quantities shown are for one end of one reinforced Concrete Pipe Culvert. For multiple Pipe Culverts or for Corrugated Metal Pipe Culverts, quantities will need to be adjusted. Riprap quantities are for Contractor's information only.

SHEET 1 OF 2

Texas Department of Transportation

Bridge Division Standard

SAFETY END TREATMENT

FOR 12" DIA TO 60" DIA
PIPE CULVERTS
TYPE II ~ CROSS DRAINAGE

SETP-CD

FILE: setpcdse.dgn	DN: GAF	CK: CAT	DW: JRP	CK: GAF
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REVISIONS				
11-10: Add note for synthetic fibers.	DIST	COUNTY		SHEET NO.
				147

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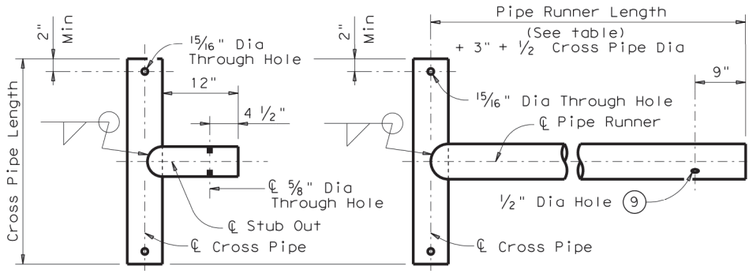
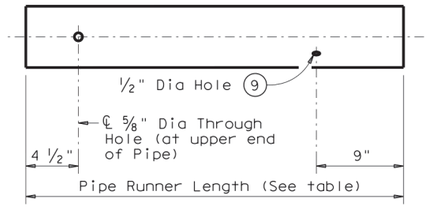
DATE:
FILE: Bid 1710-194

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



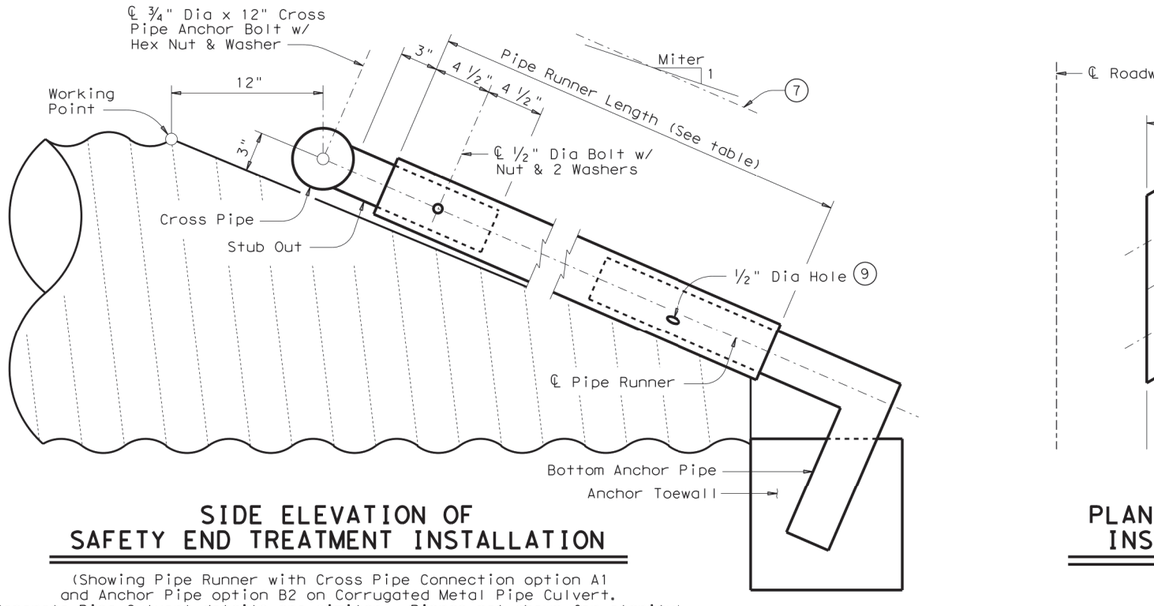
OPTION A1 OPTION A2

CROSS PIPE AND CONNECTIONS DETAILS



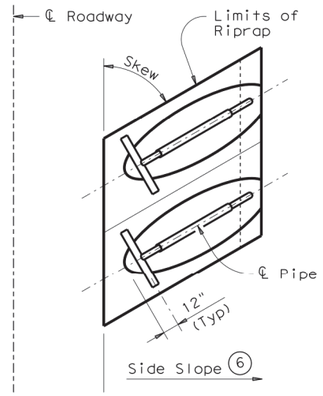
NOTE: The separate Pipe Runner shown is required when Cross Pipe Connection Option A1 is used.

PIPE RUNNER DETAILS

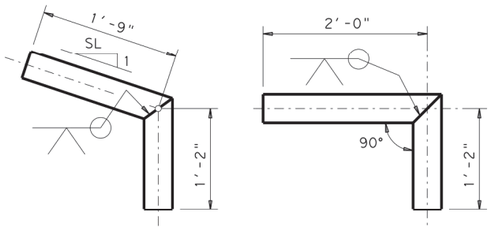


SIDE ELEVATION OF SAFETY END TREATMENT INSTALLATION

(Showing Pipe Runner with Cross Pipe Connection option A1 and Anchor Pipe option B2 on Corrugated Metal Pipe Culvert. Concrete Pipe Culvert details are similar. Riprap not shown for clarity)

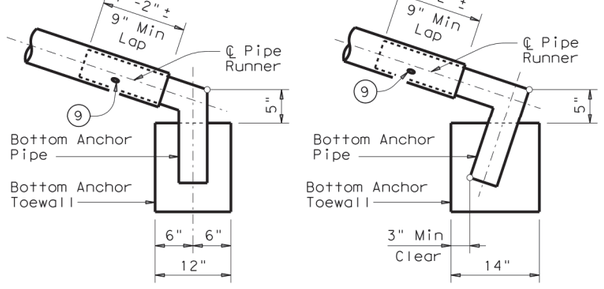


PLAN OF SKEWED INSTALLATION



OPTION B1 OPTION B2

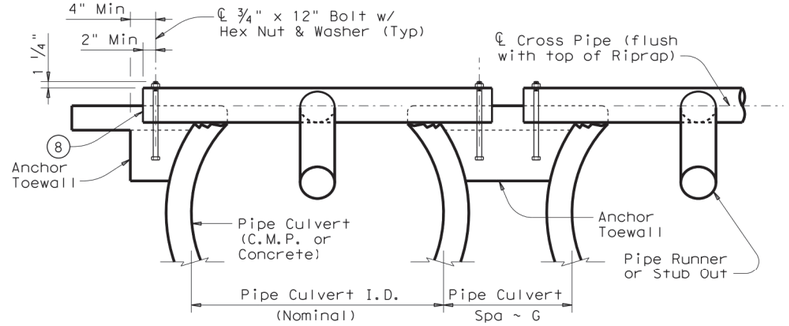
BOTTOM ANCHOR PIPE DETAILS (10)



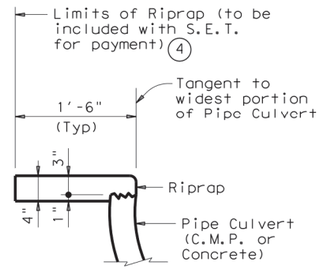
OPTION B1 OPTION B2

BOTTOM ANCHOR TOEWALL DETAILS

(Culvert & Riprap not shown for clarity)



SHOWING CROSS PIPE & ANCHOR TOEWALL



SHOWING TYPICAL PIPE CULVERT & RIPRAP

SECTION A-A

(4) Riprap placed beyond the limits shown will be paid as Concrete Riprap in accordance with Item 432, "Riprap".

(6) Recommended values of side slope are 3:1, 4:1, & 6:1. All quantities, calculations, and dimensions shown herein are based on these recommended values. Slope of 3:1 or flatter is required for vehicle safety.

(7) Note that actual slope of Pipe Runner may vary slightly from Side Slope of Riprap and trimmed Culvert Pipe edge.

(8) Care shall be taken to ensure that Riprap concrete does not flow into the Cross Pipe so as to permit disassembly of the bolted connection to allow cleanout access.

(9) After installation, the ½" hole shall be inspected to ensure that the lap of the Pipe Runner with the Bottom Anchor Pipe is adequate.

(10) At fabricator's option, a heat bend to a smooth 5" radius or a manufactured elbow (of the same material as the Runner) may be substituted for the mitered and welded joint in the Bottom Anchor Pipe.

GENERAL NOTES:

Pipe Runners are designed for a traversing load of 1,800 pounds at yield as recommended by Research Report 280-1, "Safety Treatment of Roadside Cross-Drainage Structures", Texas Transportation Institute, March 1981.

The Safety End Treatments shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the Pipe Runners.

Riprap and all necessary inverts shall be Concrete Riprap conforming to the requirements of Item 432, "Riprap".

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Payment for riprap and toewall is included in the Price Bid for each Safety End Treatment.

Pipe Runners, Cross Pipes, and Anchor Pipes shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

Bolts and nuts shall conform to ASTM A307.

All steel components, except concrete reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.

Texas Department of Transportation

Bridge Division Standard

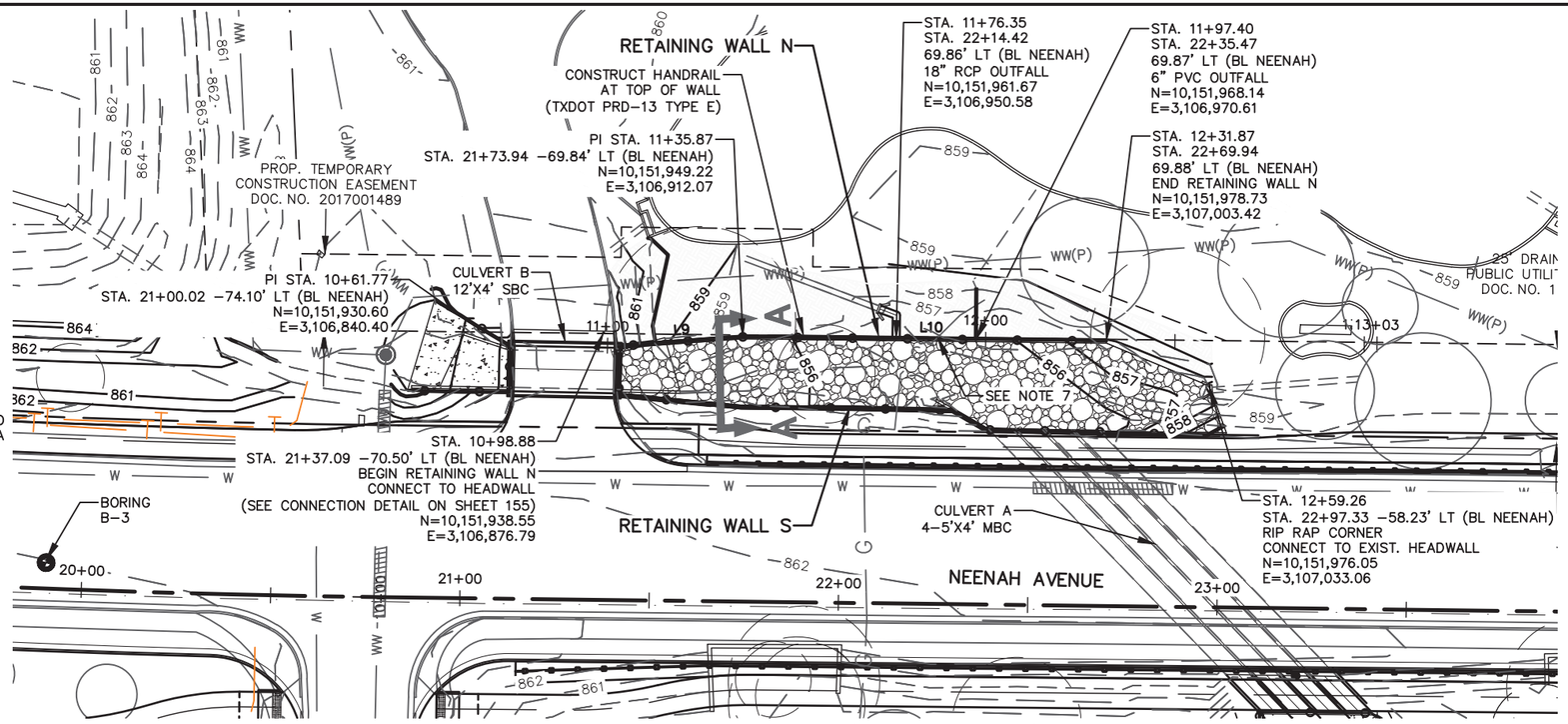
SAFETY END TREATMENT

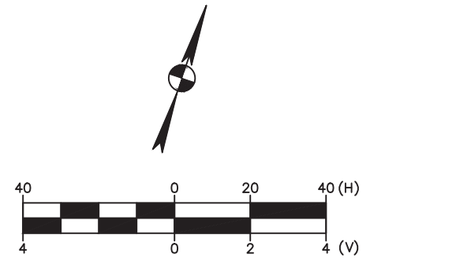
FOR 12" DIA TO 60" DIA PIPE CULVERTS
TYPE II ~ CROSS DRAINAGE

SETP-CD

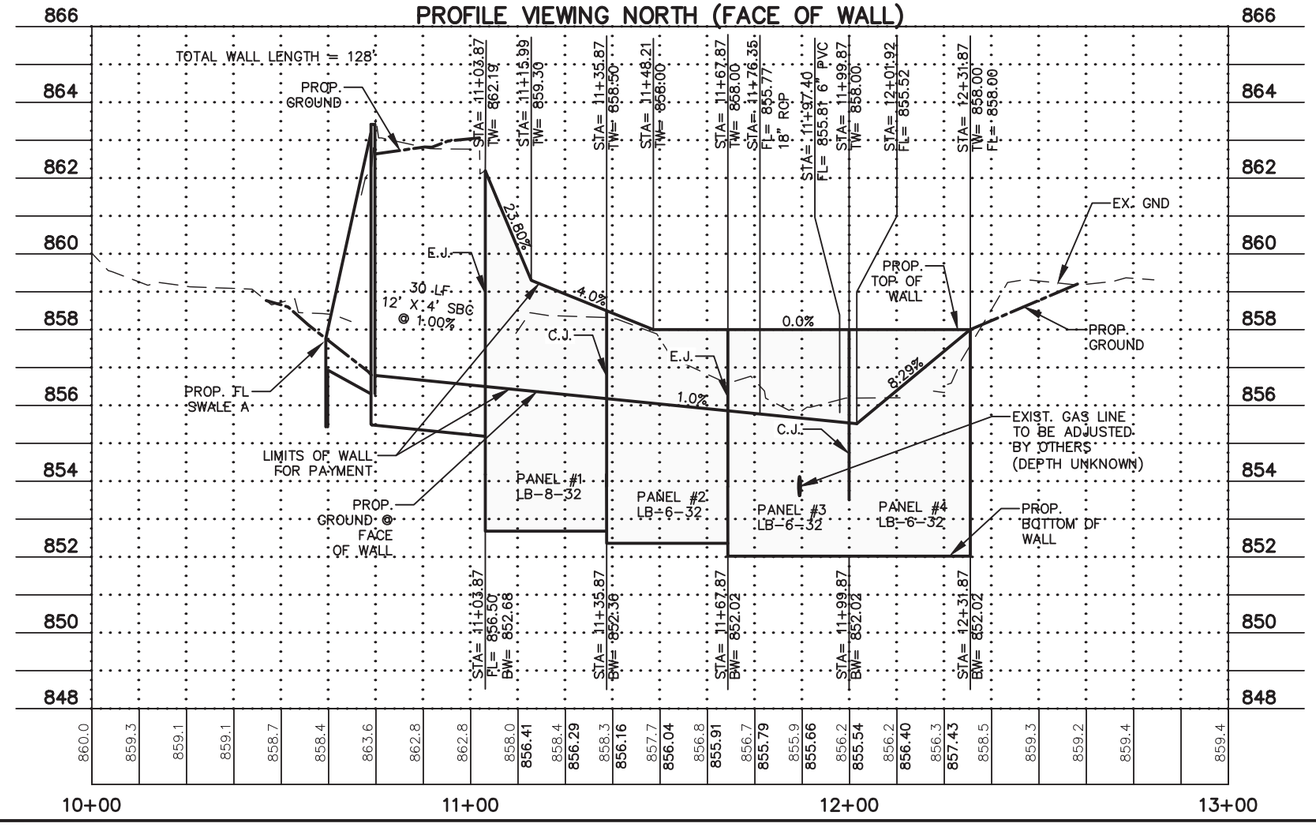
FILE: setpcdse.dgn	DN: GAF	CK: CAT	DW: JRP	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
11-10: Add note for synthetic fibers.	DIST	COUNTY		SHEET NO.
				148

DATE:
FILE:





SECTION A-A
NTS



NOTES:
1. SEE SHEETS 153 – 154 FOR RETAINING WALL STANDARDS.
2. SEE SHEET 155 FOR RETAINING WALL DETAILS.
3. IMMEDIATELY BACKFILL THE FACE OF WALL AFTER THE WALL IS CONSTRUCTED ABOVE THE FINAL GRADE IN FRONT OF THE WALL.
4. RETAINING WALL SHALL INCLUDE WEEP HOLES. UNDERDRAINS ARE NOT REQUIRED.
5. SPECIAL SHORING REQUIRED WHEN CUT EXCEEDS 5 FEET. CONTRACTOR SHALL PREPARE AND SUBMIT A SPECIAL SHORING PLAN SIGNED BY A TEXAS PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.
6. SEE GEOTECHNICAL REPORT FOR SOIL INFORMATION. WALL IS LOCATED BETWEEN BROINGS B-3 AND B-4.
7. CONTRACTOR TO VERIFY ATMOS GAS LINE HAS BEEN ADJUSTED BY OTHERS PRIOR TO THE WALL CONSTRUCTION.

PROFILE LEGEND:

EXISTING GND

PROPOSED PIPE

ELEVATION EXISTING GND	669.7	671.59	ELEVATION PROPOSED GND @ FACE OF WALL

LINE TABLE – RW N				
NO.	BEARING	DISTANCE	START NORTHING	START EASTING
L9	N67°09'36.67"E	32.00'	N= 10,151,936.80	E= 3,106,882.57
L10	N72°05'53.13"E	96.00'	N= 10,151,949.22	E= 3,106,912.07

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-6324 TBPLS # F-10194230
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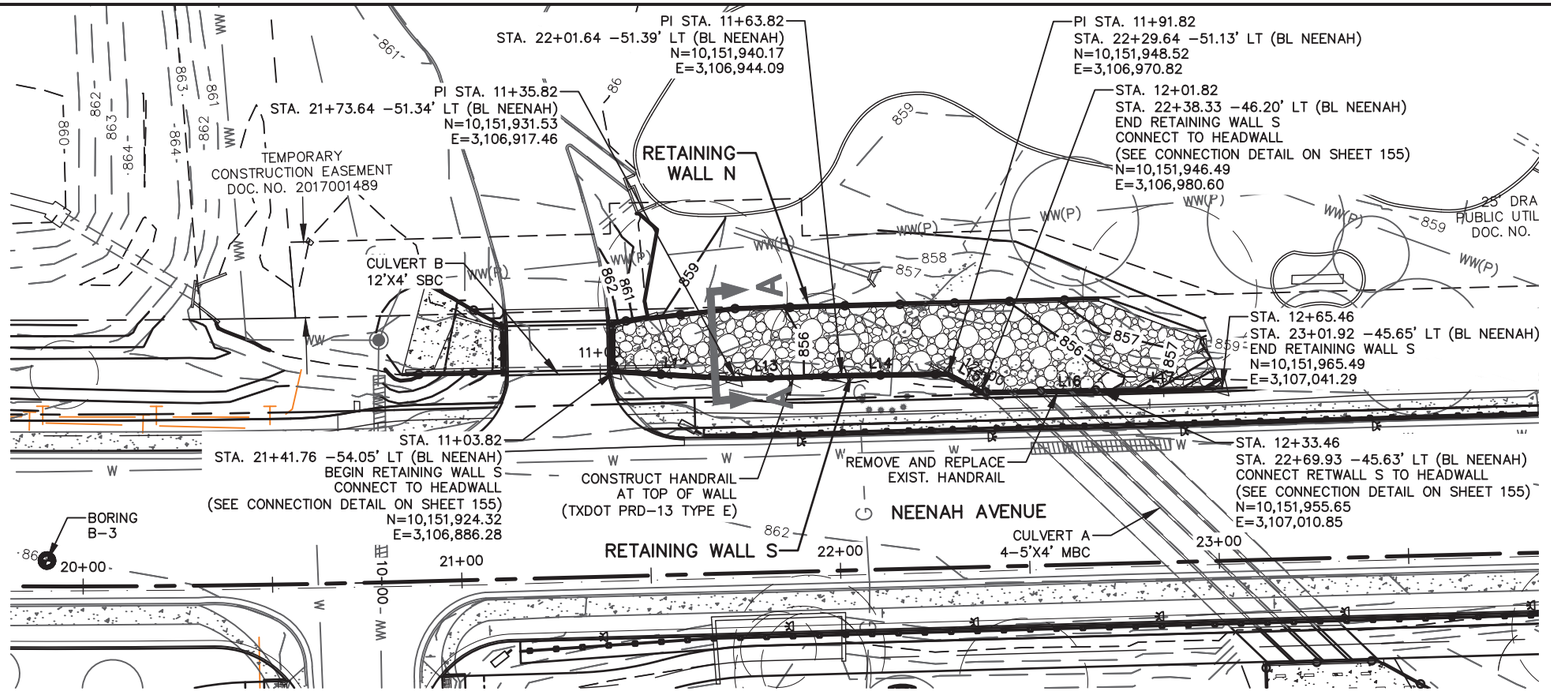
RETAINING WALL (N) PLAN AND PROFILE

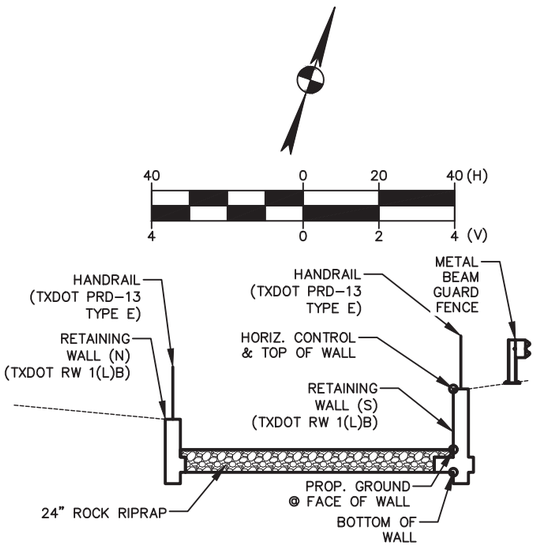
SHEET 149 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				149

V:\2220\active\222010285\civil\cad\CD Sheets\Drainage\VFG - RW N - (8) - (3).dwg modified by ehvargas on Aug 7, 17 1:55 PM

SP-2016-0186D

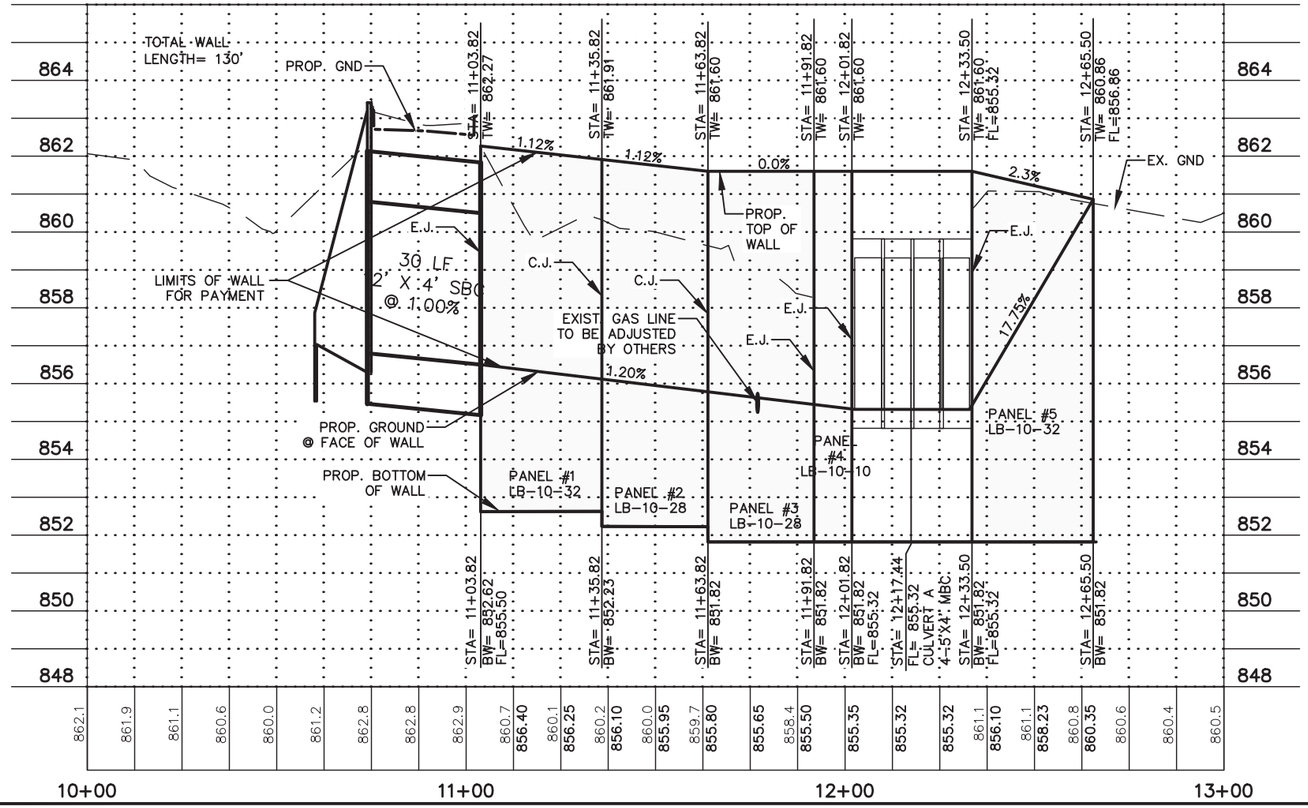




RW S
SECTION A
NTS

LINE TABLE − RW S				
NO.	BEARING	DISTANCE	START NORTHING	START EASTING
L12	N76°58'39.39"E	32.00'	N= 10,151,924.32	E= 3,106,886.28
L13	N72°02'20.37"E	28.00'	N= 10,151,931.53	E= 3,106,917.46
L14	N72°38'49.79"E	28.00'	N= 10,151,940.17	E= 3,106,944.09
L15	N78°16'37.00"E	10.00'	N= 10,151,947.48	E= 3,106,975.83
L16	N72°20'46.00"E	30.81'	N= 10,151,951.11	E= 3,106,995.52
L17	N72°19'16.25"E	32.0'	N= 10,151,955.65	E= 3,107,010.85

PROFILE VIEWING SOUTH (BACK OF WALL)



NOTES:
1. SEE SHEETS 153 − 154 FOR RETAINING WALL STANDARDS.
2. SEE SHEET 155 FOR RETAINING WALL DETAILS.
3. IMMEDIATELY BACKFILL THE FACE OF WALL AFTER THE WALL IS CONSTRUCTED ABOVE THE FINAL GRADE IN FRONT OF THE WALL.
4. RETAINING WALL SHALL INCLUDE WEEP HOLES. UNDERDRAINS ARE NOT REQUIRED.
5. SPECIAL SHORING REQUIRED WHEN CUT EXCEEDS 5 FEET. CONTRACTOR SHALL PREPARE AND SUBMIT A SPECIAL SHORING PLAN SIGNED BY A TEXAS PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.
6. SEE GEOTECHNICAL REPORT FOR SOIL INFORMATION. WALL IS LOCATED BETWEEN BROINGS B−3 AND B−4.
7. CONTRACTOR TO ADJUST ATMOS GAS LINE.

PROFILE LEGEND:

EXISTING GND

PROPOSED PIPE

ELEVATION EXISTING GND	669.7	671.59	ELEVATION PROPOSED GND @ FACE OF WALL

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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RETAINING WALL (S) PLAN AND PROFILE

SHEET 150 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023−10006	_	14	WILLIAMSON				150

SP-2016-0186D

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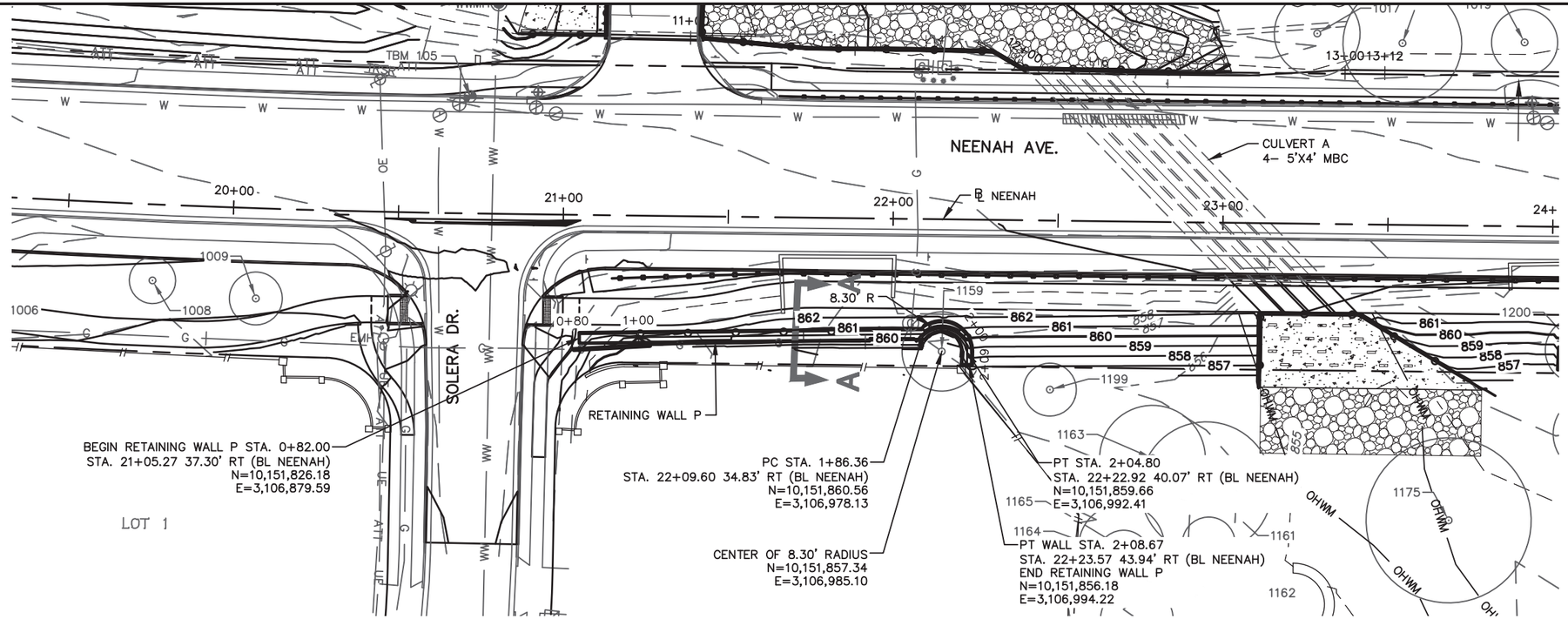
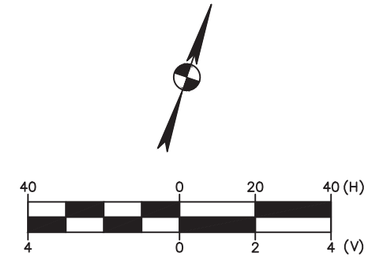
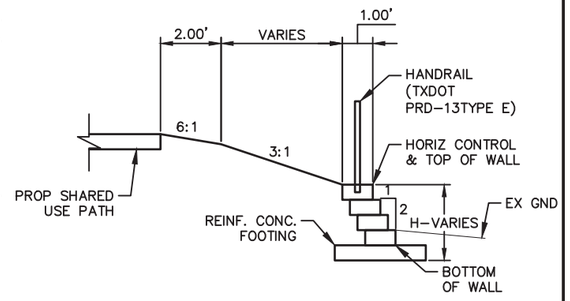






SECTION A–A
NTS

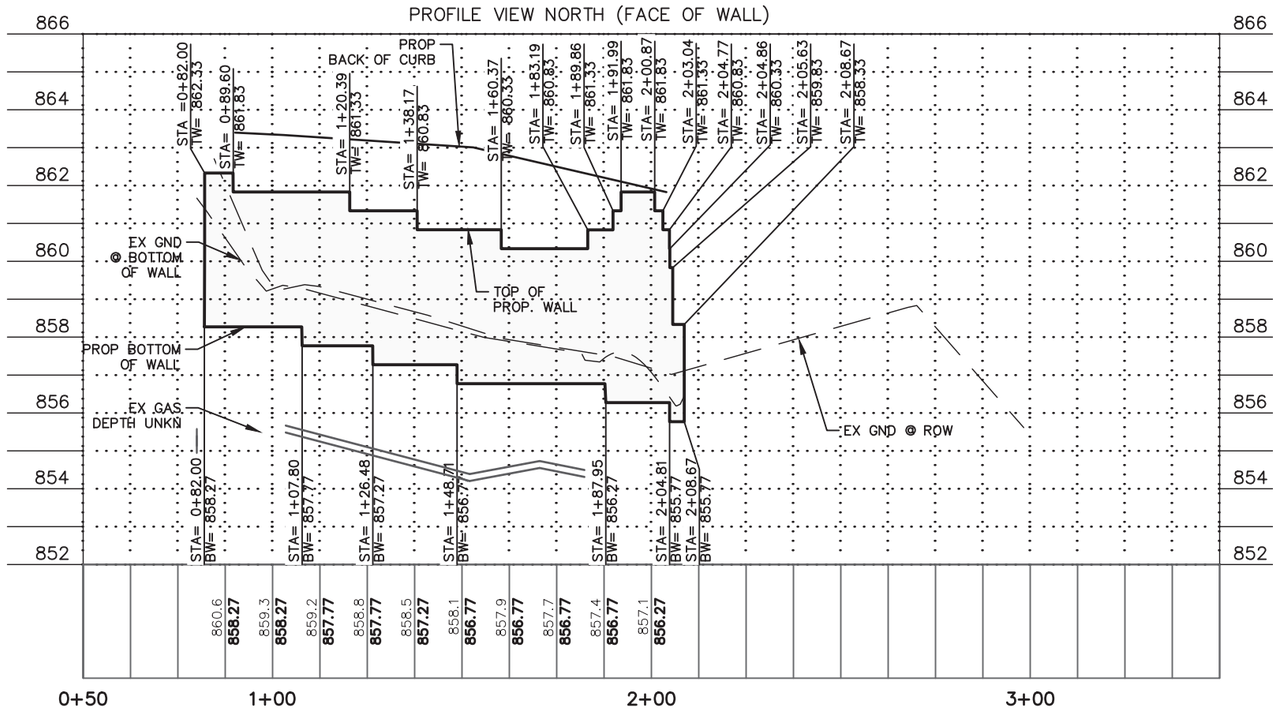
NOTES:
1. SEE SHEET 156 FOR RETAINING WALL DETAILS.
2. IMMEDIATELY BACKFILL THE FACE OF WALL AFTER THE WALL IS CONSTRUCTED ABOVE THE FINAL GRADE IN FRONT OF THE WALL.
3. CONTRACTOR SHALL PREPARE AND SUBMIT A RETAINING WALL DETAIL SIGNED AND SEALED BY A TEXAS PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION. THE STANDARD PROVIDED SHOULD BE USED AS AN EXAMPLE OF THE TYPE OF WALL DESIRED AT THIS LOCATION. THE DETAIL SHALL INCLUDE THE PROPOSED HANDRAIL.
4. SPECIAL SHORING REQUIRED WHEN CUT EXCEEDS 5 FEET. CONTRACTOR SHALL PREPARE AND SUBMIT A SPECIAL SHORING PLAN SIGNED BY A TEXAS PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.
5. SEE GEOTECHNICAL REPORT FOR SOIL INFORMATION. WALL IS LOCATED BETWEEN BORINGS B–3 AND B–4.
6. PEDESTRIAN RAIL IS REQUIRED ALONG THE ENTIRE TOP LENGTH OF THE WALL.
7. CONTRACTOR TO FIELD VERIFY LOCATION OF GAS LINE PRIOR TO CONSTRUCTION.

PROFILE LEGEND:

EX GND

PROP WALL

ELEVATION EX. GND	669.7	**671.59**	ELEVATION BOTTOM OF WALL



8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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RETAINING WALL (P) PLAN AND PROFILE

SHEET 151 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				151

SP-2016-0186D

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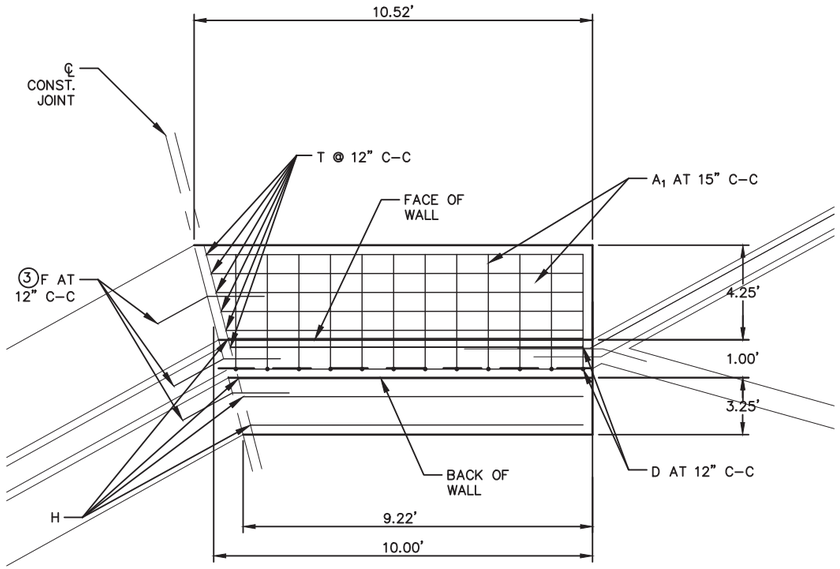
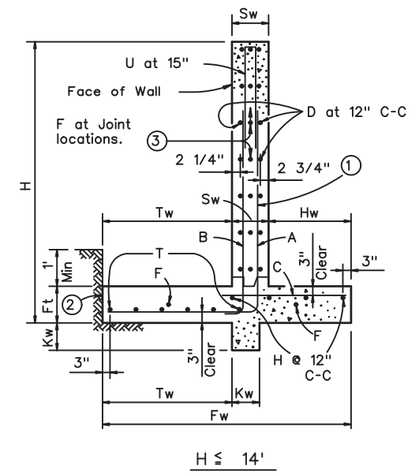


PLAN

NTS



H ≤ 14'

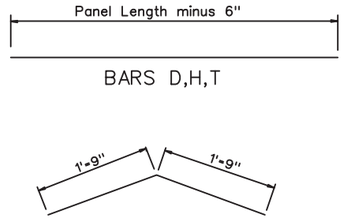
1 Place vertical bars inside of horizontal bars (Typ both faces).

2 Place footing toe against undisturbed soil.

3 See standard RW 2 for size.

SECTION

NTS



BARS D,H,T

BARS F 3

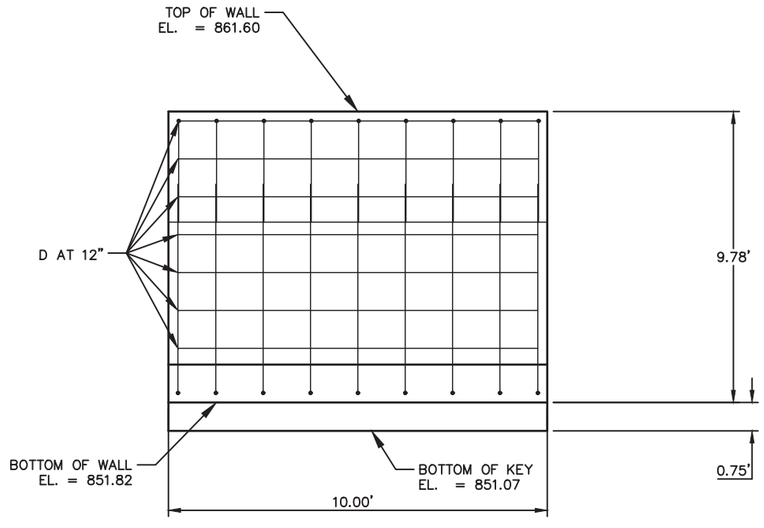
REINFORCING STEEL FOR ONE 10' PANEL				
BAR	TYPE	SIZE	NO.	WEIGHT
A1	Bt.	#5	9	120
A2	Bt.	#6	9	89
B	Bt.	#5	9	89
C	St.	#6	9	64
D	St.	#5	20	206
F	Bt.	#8	13	104
H	St.	#5	4	41
T	St.	#5	5	52
U	Bt.	#5	9	78
TOTAL			LB	843
CLASS C CONC.			CY	6.68
RET. WALL			SF	97.8

GENERAL NOTES:

All concrete to be Class "C".
All reinforcing steel to be Grade 60.
For notes and details not shown on this sheet see sheet RW2.
Quantities are based on "H" being average height of panel.
All reinforcing steel spacing is 15" c-c unless noted otherwise
Retaining Walls are designed to be coded as follows on Retaining Wall Layout Sheets.

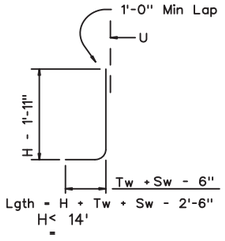
LB - 10 - 10

LA - 28 - 32
- Panel Length ~ 32' is standard; 28' requires special quantities
- Average Height "H" of panel
- Design - A = no surcharge or slope above wall; B = slopes up to 4:1; C = traffic surcharge and/or slopes up to 2.5:1
- Footing pressure design ~ L = low, H = high

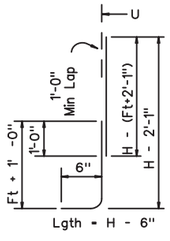


FRONT ELEVATION

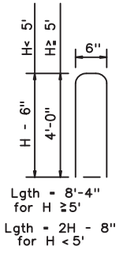
NTS



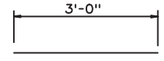
BARS A_1 (#5)



BARS B (#5)



BARS U (#5)



BARS C (#6)

FOR CITY USE ONLY:

SITE PLAN APPROVAL Sheet ___ of ___
FILE NUMBER: SP-2016-0186D APPLICATION DATE: 6/19/2016
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81,LDC)_____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A)_____ DWPZ ___ DDZ ___

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE:_____ ZONING: _____
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE CURRENT AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-6324 TBPLS # F-10194230
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RETAINING WALL (S) PANEL #4 (LB–10–10) DETAIL

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				152

SP-2016-0186D

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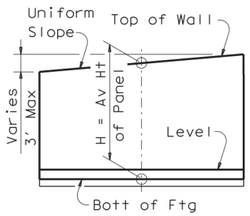
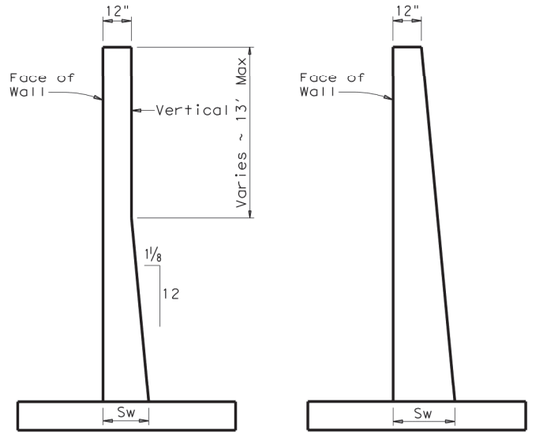
DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



H DEFINITION

| Wall Height "H" | PROPERTIES | | | | | | | REINFORCING STEEL FOR ONE 32' PANEL (DESIGN B) | | | | | | |

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

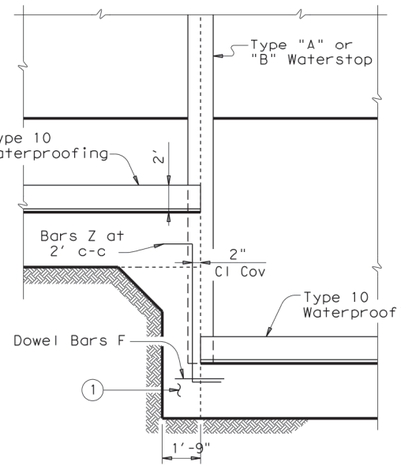


AS DETAILED ALL HEIGHTS
(Basis for payment)

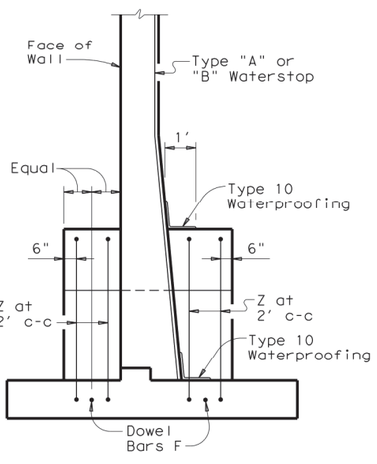
FRONT FACE VERTICAL BACK FACE SLOPED

ALTERNATE STEM SLOPE DETAILS

Walls with slopes other than those shown may be used after approval by the Engineer. Sw shall not be less than shown in Table on Sheet 1. No payment will be made for excess concrete due to changing of slope of wall stem.



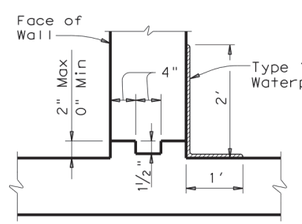
PARTIAL ELEVATION



PARTIAL SECTION

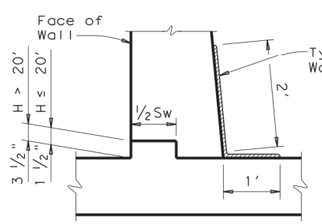
SHOWING WATERSTOP AT FOOTING JOINT

1 Unreinforced Class "C" Concrete when difference in top of footing elevations is less than 6'. Omit when Dowel Bars F can be placed between adjacent footings with 4" cover top and bottom.



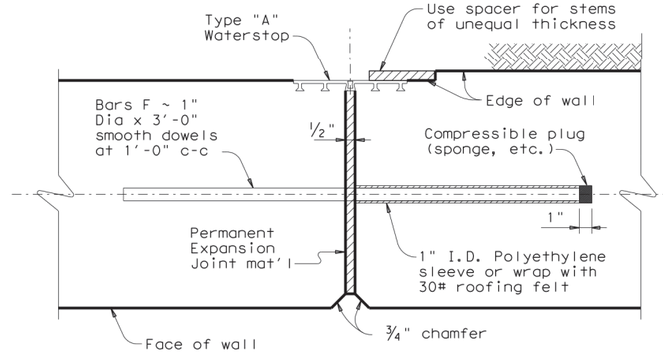
H ≤ "X"

DESIGN	"X"
A	14'
B	12'
C	11'

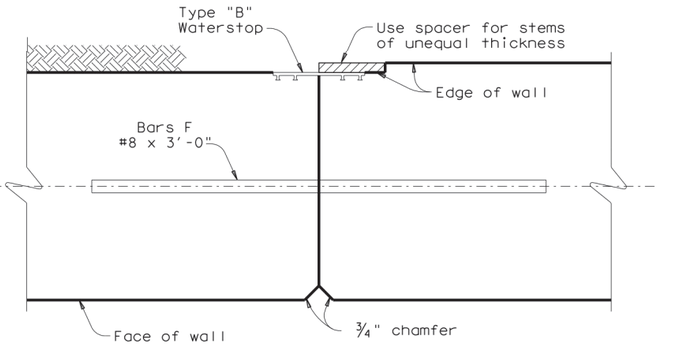


H > "X"

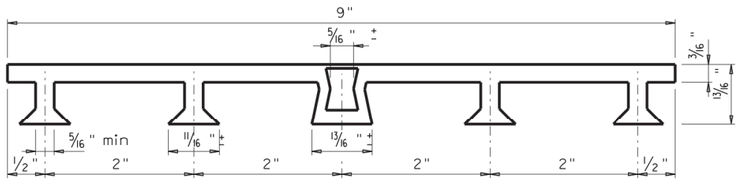
JOINT AND WATERSTOP DETAILS



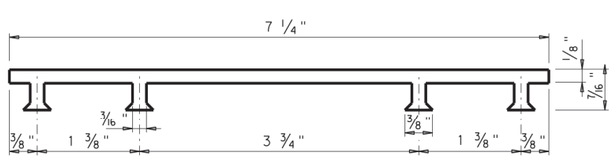
EXPANSION JOINT



CONSTRUCTION JOINT

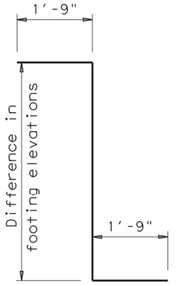


PVC WATERSTOP TYPE "A"



PVC WATERSTOP TYPE "B"

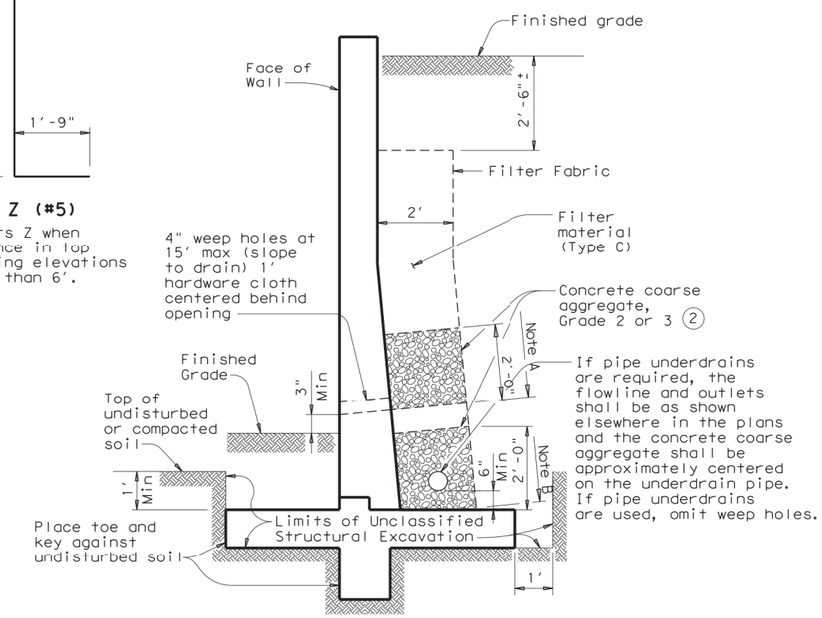
Note: Dimensions and shapes may vary slightly depending on manufacturer.



BARS Z (#5)

Omit Bars Z when difference in top of footing elevations is less than 6'.

2 Crushed blast furnace slag, recycled crushed hydraulic cement concrete or combination there of may not be used.



DRAINAGE DETAILS AND EXCAVATION DIAGRAM

Note A: Stop coarse aggregate at this level when weep holes are used.

Note B: Use coarse aggregate to here with filter material above when underdrains are used.

GENERAL NOTES:

Walls are designed assuming unit weight of soil = 120 pcf, and coefficient of horizontal earth pressure = 0.33.

Walls are designed to provide a minimum factor of safety against sliding of 1.5. The undisturbed or compacted soil depth in front of walls, from bottom of Key up, shall not be less than Kw + Ft + 1'.

Retaining walls are detailed to be placed on grades up thru 10% with footing level, with no changes in reinforcing steel. Steeper grades can be accommodated by shortening Bars A1 and B and increasing length of legs of Bars U by the same amount. No change in Quantities will be involved

Retaining walls may be placed on Horizontal Curves by adjusting lengths of footing Bars T and H. Minor revisions of Concrete Quantities may be required.

Designed in accordance with current AASHTO Standard and Interim Specifications.

All concrete to be Class "C".

All reinforcing steel to be Grade 60.

Texas Department of Transportation

Bridge Division Standard

RETAINING WALL MISCELLANEOUS DETAILS

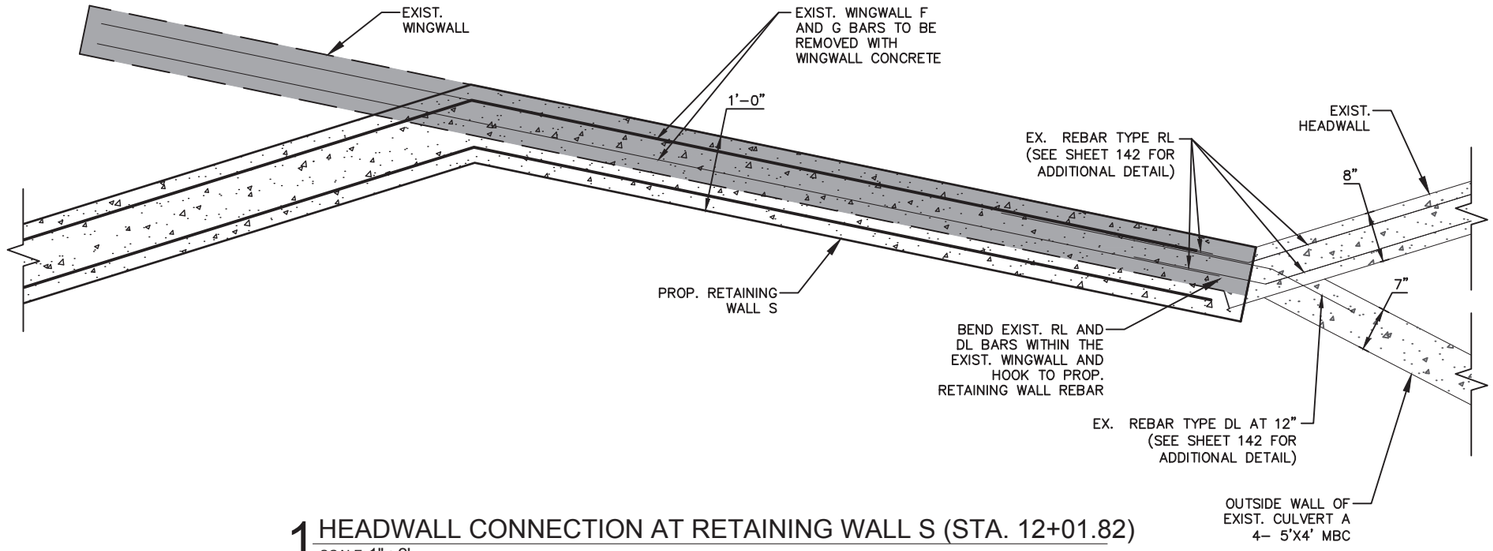
RW 2

FILE: rwstde11.dgn	DN: TxDOT	CK: TxDOT	DW: JGD	CK: MJG
©TxDOT March 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
04-11: Added Note 2.	DIST	COUNTY		SHEET NO.
				154

DATE:
FILE:

Bid 1710-194

10/10/2017 6:54 AM



1 HEADWALL CONNECTION AT RETAINING WALL S (STA. 12+01.82)

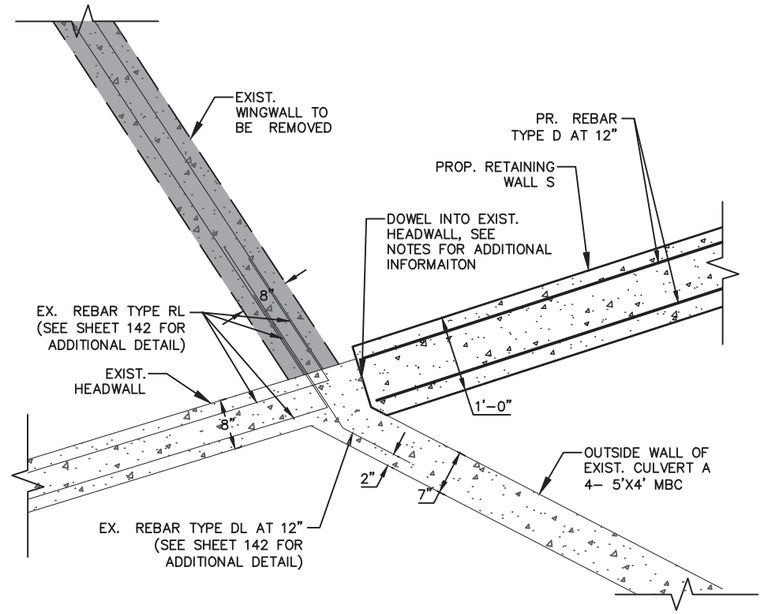
SCALE: 1" : 2'

NOTES:

1. EXISTING WINGWALL CONCRETE TO BE REMOVED.

LEGEND

CONCRETE TO BE REMOVED



2 HEADWALL CONNECTION AT RETAINING WALL S (STA. 12+33.46)

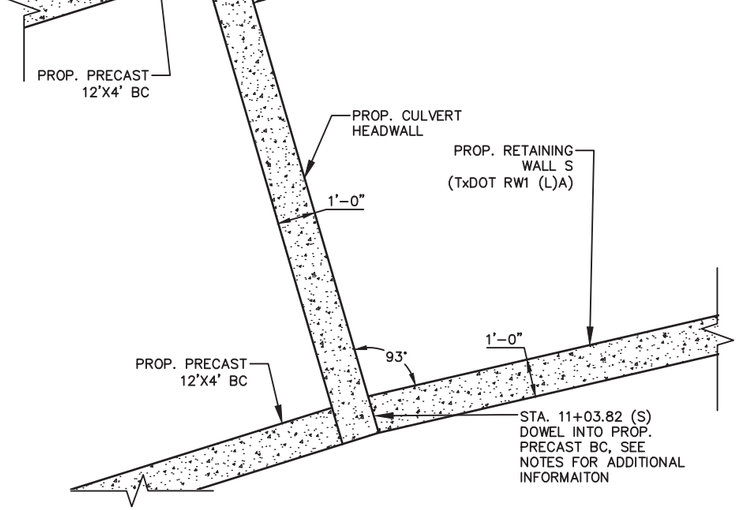
SCALE: 1" : 2'

NOTES:

1. EXISTING WINGWALL CONCRETE AND REINFORCING STEEL TO BE REMOVED.
2. USE #4 DOWELS, CONNECT, DRILL AND SET W/ HILTI HIT–RE 500, 12" MIN. EMBED AT CURB, TOP SLAB AND BOTTOM SLAB, 6" MIN. EMBED AT MBC OPENING.
3. DOWELL SPACING SHALL MATCH RETAINING WALL REINFORCING STEEL SPACING.

LEGEND

CONCRETE TO BE REMOVED

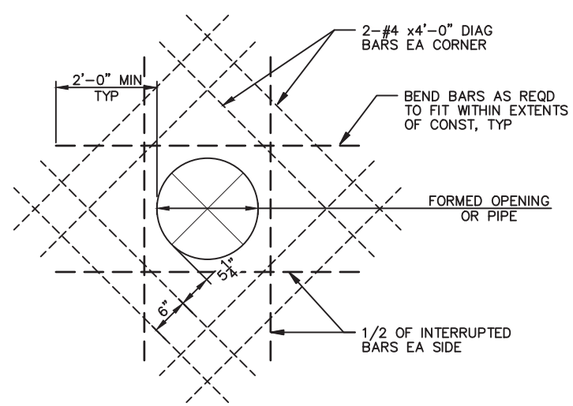


3 HEADWALL CONNECTION AT RET. WALLS N (STA. 11+03.87) & S (STA. 11+03.82)

SCALE: 1" : 4'

NOTES:

1. USE #4 DOWELS, CONNECT, DRILL AND SET W/ HILTI HIT–RE 500, 12" MIN. EMBED.
2. DOWELL SPACING SHALL MATCH RETAINING WALL REINFORCING STEEL SPACING.



NOTES:

1. CUT REINFORCEMENT INTERRUPTED BY OPENING AND ADD ADDITIONAL QUANTITY AND SIZE OF REINFORCING BARS TO MATCH CUT BARS EACH SIDE OF OPENING, TYPICAL (INTERRUPTED BARS).
2. ADD DIAGONAL BARS AS SHOWN IN DETAIL.

4 TYPICAL WALL PENETRATION

SCALE: 1" : 2'

8.4.17

STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER

Stephanie D Blew

FOR CITY USE ONLY:

SITE PLAN APPROVAL Sheet 155of 273
FILE NUMBER: SP–2016–0186D APPLICATION DATE: 4/19/2016
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25–5–81,LDC)_____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905–A)_____ DWPZ ___ DDZ ___

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING: _____
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE CURRENT AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

Stantec
221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-6324 TBPLS # F-10194230
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RETAINING WALL DETAILS 3

SHEET 155 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				155

SP-2016-0186D

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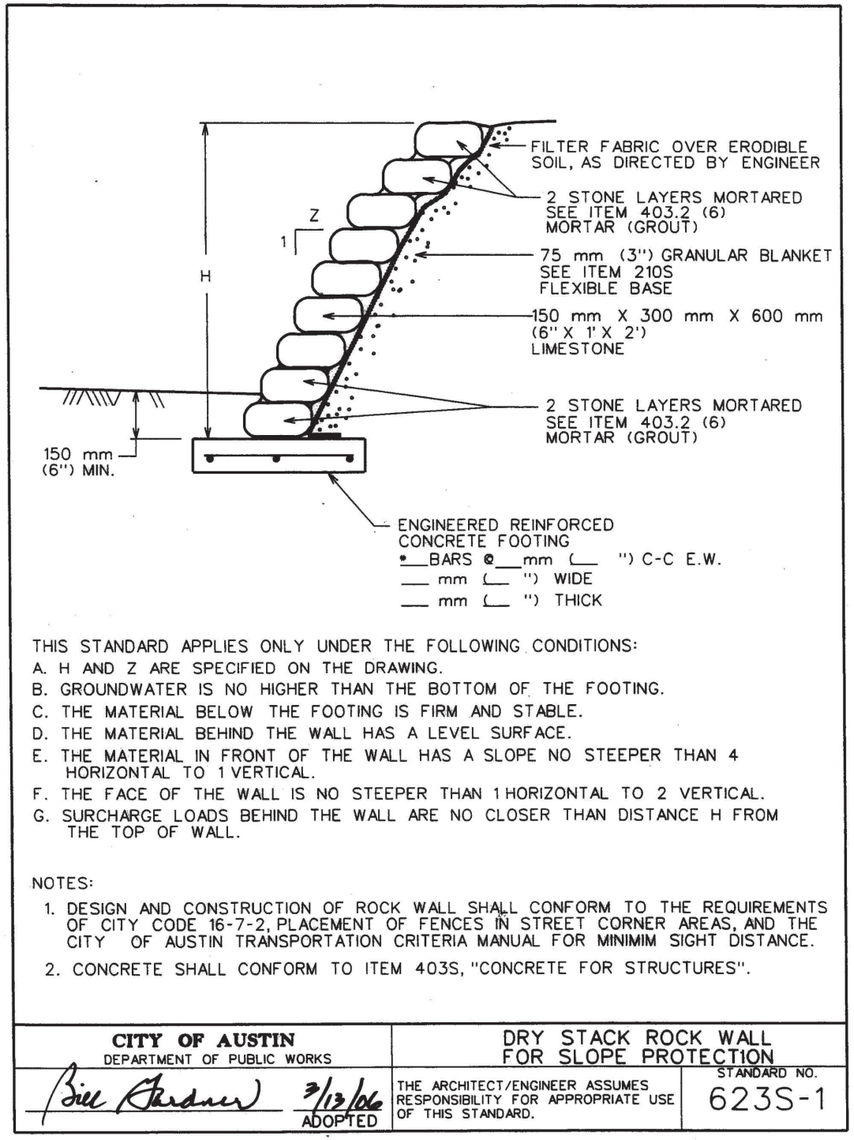


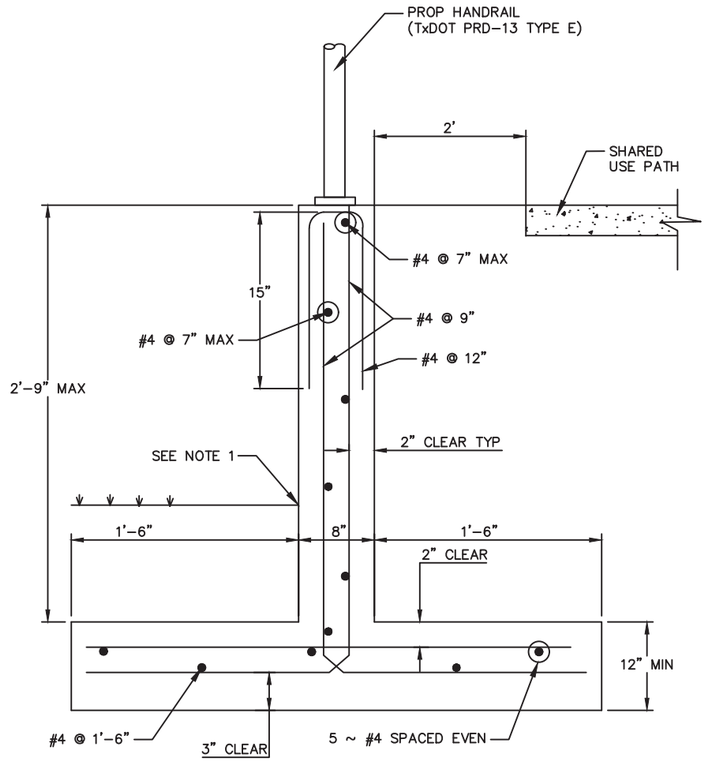
THIS STANDARD APPLIES ONLY UNDER THE FOLLOWING CONDITIONS:

A. H AND Z ARE SPECIFIED ON THE DRAWING.
B. GROUNDWATER IS NO HIGHER THAN THE BOTTOM OF THE FOOTING.
C. THE MATERIAL BELOW THE FOOTING IS FIRM AND STABLE.
D. THE MATERIAL BEHIND THE WALL HAS A LEVEL SURFACE.
E. THE MATERIAL IN FRONT OF THE WALL HAS A SLOPE NO STEEPER THAN 4 HORIZONTAL TO 1 VERTICAL.
F. THE FACE OF THE WALL IS NO STEEPER THAN 1 HORIZONTAL TO 2 VERTICAL.
G. SURCHARGE LOADS BEHIND THE WALL ARE NO CLOSER THAN DISTANCE H FROM THE TOP OF WALL.

NOTES:

1. DESIGN AND CONSTRUCTION OF ROCK WALL SHALL CONFORM TO THE REQUIREMENTS OF CITY CODE 16-7-2, PLACEMENT OF FENCES IN STREET CORNER AREAS, AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL FOR MINIMIM SIGHT DISTANCE.
2. CONCRETE SHALL CONFORM TO ITEM 403S, "CONCRETE FOR STRUCTURES".

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	DRY STACK ROCK WALL FOR SLOPE PROTECTION	
Bill Gardner 3/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 623S-1



NOTES:
1. BOTTOM OF WALL ELEVATIONS SHOWN ON PLANS INDICATE THE LOWEST EXPOSED ELEVATION FOR THE FACE OF WALL.

SHARED USE PATH RETAINING WALL DETAIL

NTS

8.4.17 STATE OF TEXAS STEPHANIE D. BLEW 92682 LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

FOR CITY USE ONLY:

SITE PLAN APPROVAL Sheet 156 of 273
FILE NUMBER: SP-2016-0186D APPLICATION DATE: 4/19/2016
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PROJECT EXPIRATION DATE (ORD.#970905-A)_____ DWPZ ___ DDZ ___

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE:_____ ZONING: _____
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

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NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
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RETAINING WALL DETAILS 4

SHEET 156 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				156

SP-2016-0186D

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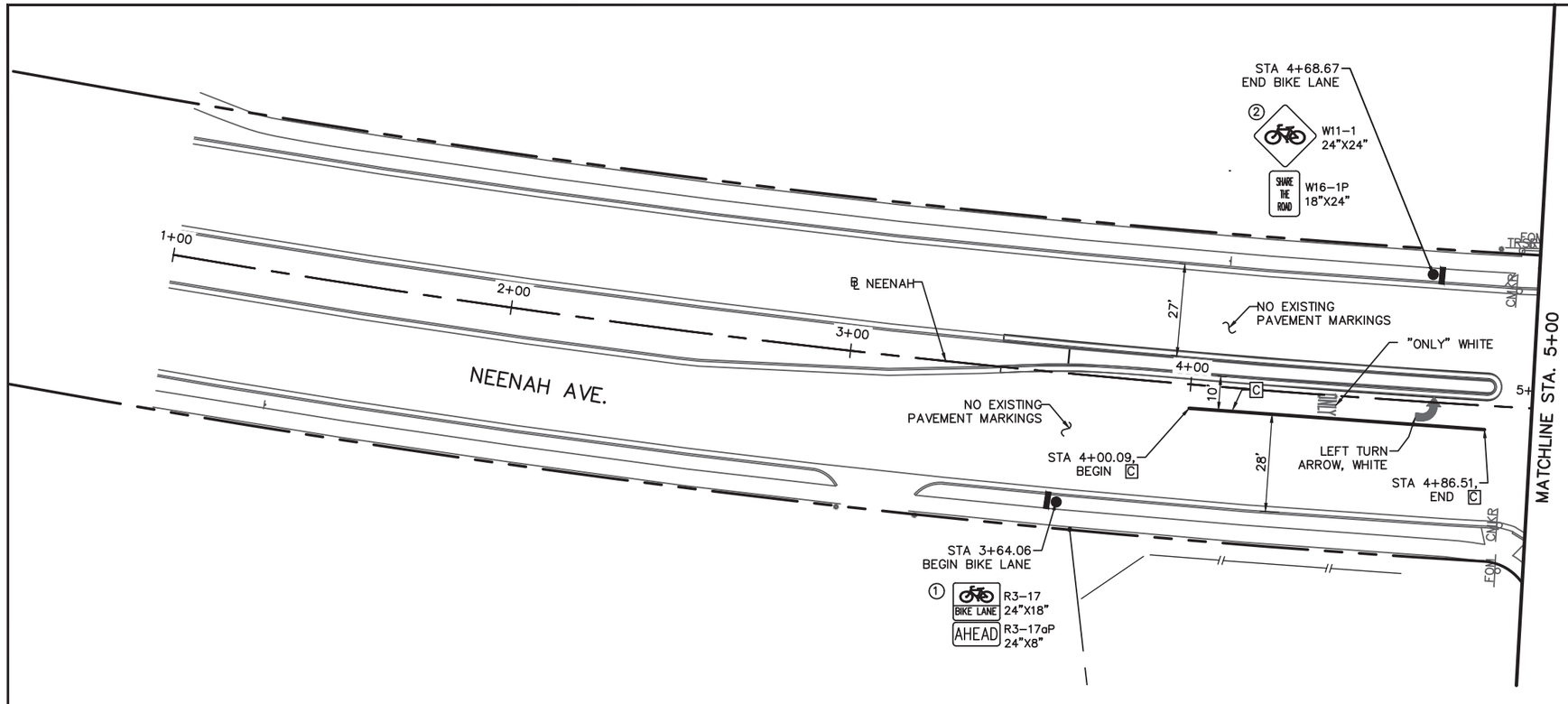

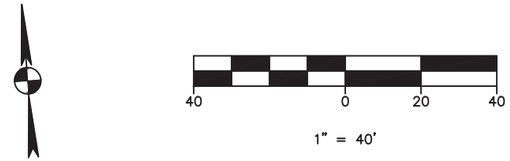

LEGEND

- A 4" WHITE BROKEN W/RAIS PAV MRKR TYPE I-C @40' C-C
- B 4" WHITE SOLID
- C 8" WHITE SOLID
- D 4" YELLOW SOLID
- E 12" YELLOW SOLID
- F 12" WHITE SOLID
- G 4" YELLOW BROKEN W/RAIS PAV MRKR TYPE II-A-A @ 40' C-C
- H 24" WHITE SOLID
- I CROSSWALK STRIPING
- J 6" WHITE DASHED
- K 6" WHITE SOLID
- RAISED PAVEMENT MARKER
- PROPOSED SIGN
- METAL BEAM GUARD FENCE

NOTES:

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
2. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
3. REFER TO INTERSECTION LAYOUT SHEETS FOR MORE INFORMATION.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEET FOR MORE INFORMATION.
5. CONTRACTOR TO REMOVE TEMPORARY AND EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHOWN.
6. REFER TO SIGNAGE AND PAVEMENT MARKINGS DETAILS FOR ADDITIONAL INFORMATION.
7. ALL PAVEMENT TO RECEIVE A SEAL COAT PRIOR TO PERMANENT PAVEMENT MARKINGS SHOWN BEING INSTALLED.
8. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
9. CONTRACTOR SHALL PROTECT EXISTING PAVEMENT MARKINGS NOT SHOWN FOR REMOVAL. RESTORATION OF MARKINGS TO REMAIN SHALL BE AT THE EXPENSES OF THE CONTRACTOR.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-6324 TBPLS # F-10194230
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SIGNAGE AND PAVEMENT MARKINGS
STA. 1+00 TO STA. 5+00

SHEET 157 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				157

SP-2016-0186D

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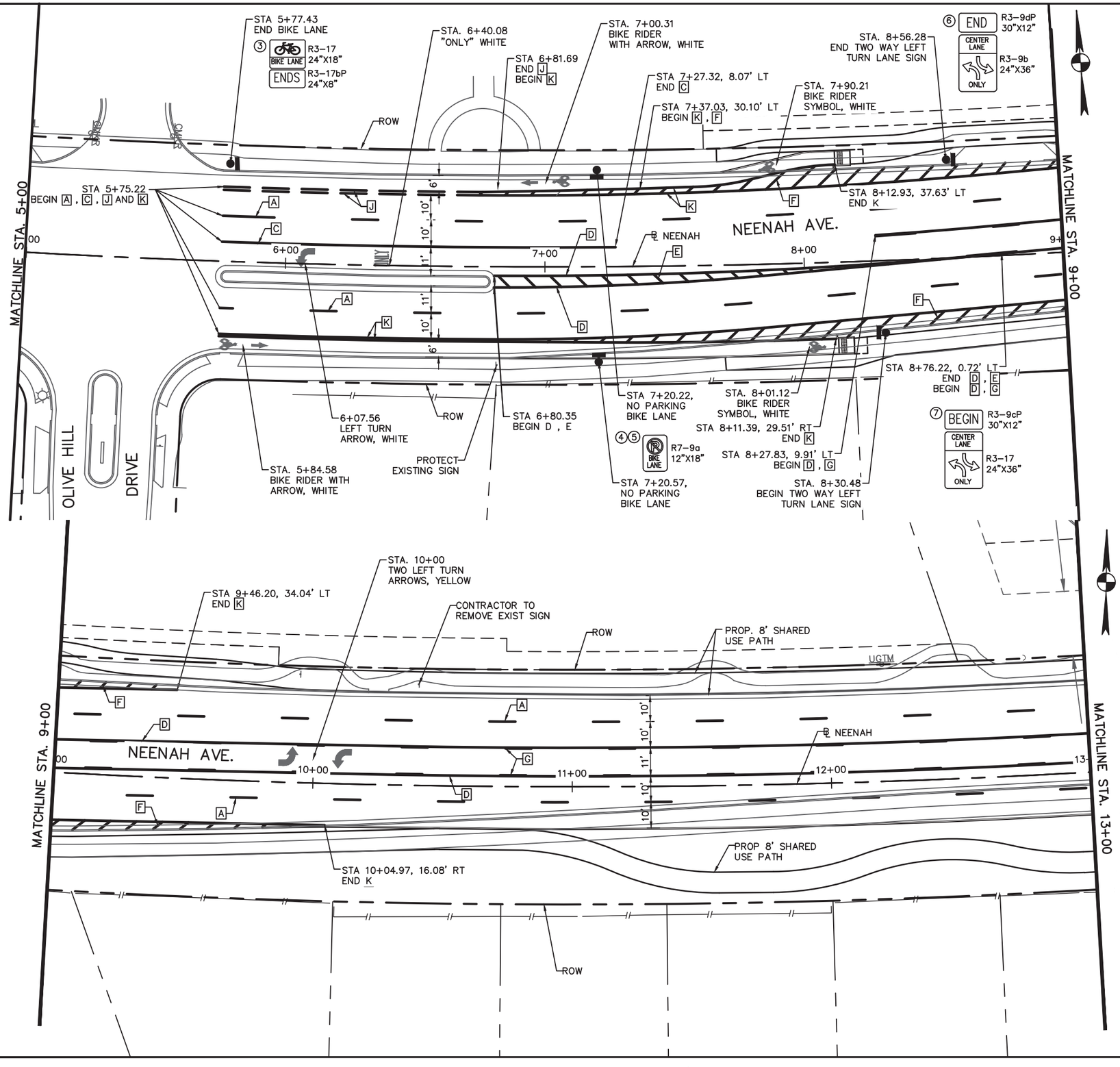

40 0 20 40

1" = 40'

LEGEND

- A 4" WHITE BROKEN W/RAIS PAV MRKR TYPE I-C @ 40' C-C
- B 4" WHITE SOLID
- C 8" WHITE SOLID
- D 4" YELLOW SOLID
- E 12" YELLOW SOLID
- F 12" WHITE SOLID
- G 4" YELLOW BROKEN W/RAIS PAV MRKR TYPE II-A-A @ 40' C-C
- H 24" WHITE SOLID
- I CROSSWALK STRIPING
- J 6" WHITE DASHED
- K 6" WHITE SOLID
- RAISED PAVEMENT MARKER
- PROPOSED SIGN
- METAL BEAM GUARD FENCE

NOTES:

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4. REFER TO HORIZONTAL ALIGNMENT DATA SHEET FOR MORE INFORMATION.
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8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

Stantec
221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
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SIGNAGE AND PAVEMENT MARKINGS STA. 5+00 TO STA. 13+00

SHEET 158 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				158

SP-2016-0186D

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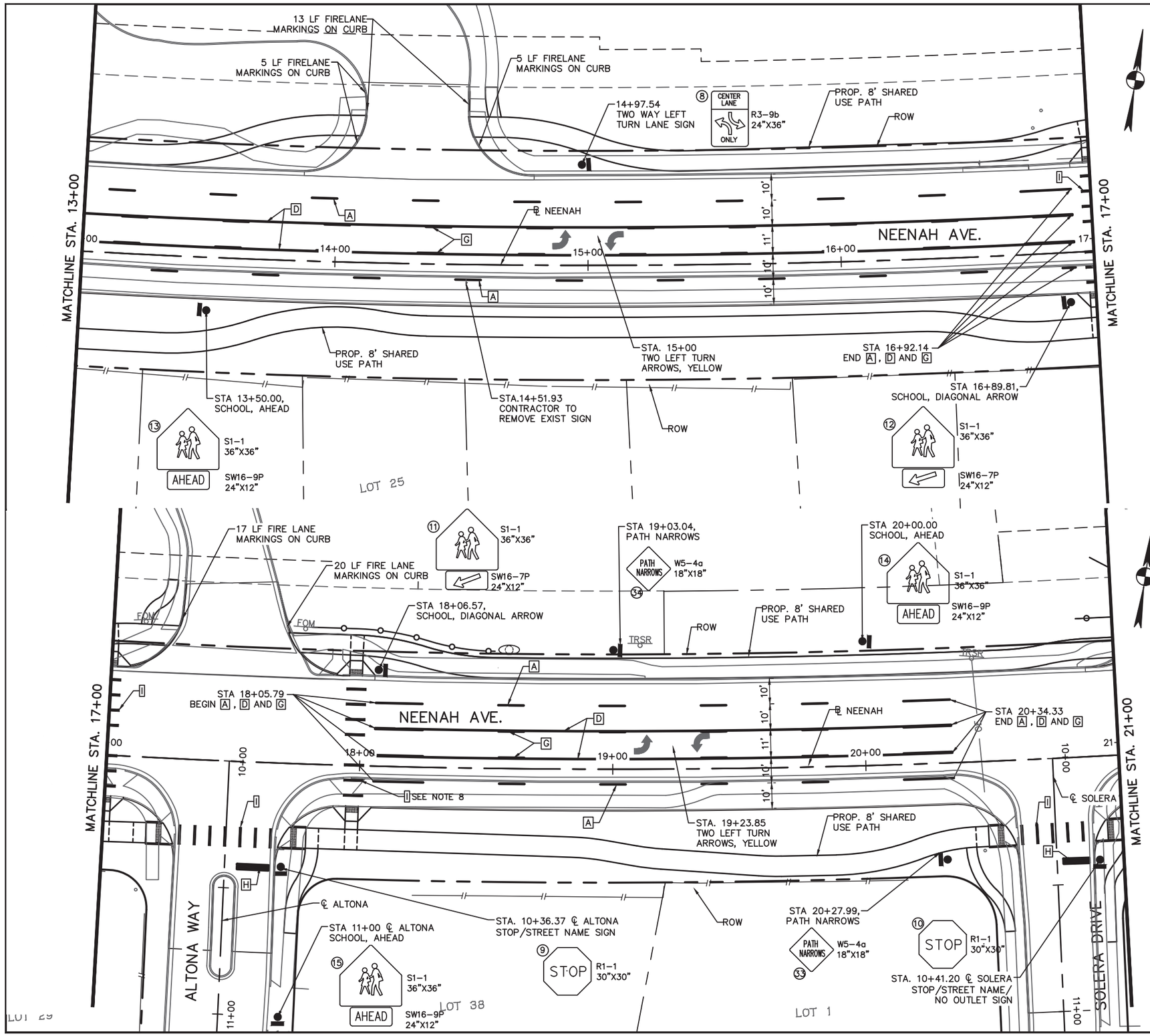

LEGEND

- A 4" WHITE BROKEN W/RAIS PAV MRKR TYPE I-C @ 40' C-C
- B 4" WHITE SOLID
- C 8" WHITE SOLID
- D 4" YELLOW SOLID
- E 12" YELLOW SOLID
- F 12" WHITE SOLID
- G 4" YELLOW BROKEN W/RAIS PAV MRKR TYPE II-A-A @ 40' C-C
- H 24" WHITE SOLID
- I CROSSWALK STRIPING
- J 6" WHITE DASHED
- K 6" WHITE SOLID
- RAISED PAVEMENT MARKER
- PROPOSED SIGN
- METAL BEAM GUARD FENCE
- OM ASSM (OM-2Z) FLX (GND)

NOTES:

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
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4. REFER TO HORIZONTAL ALIGNMENT DATA SHEET FOR MORE INFORMATION.
5. CONTRACTOR TO REMOVE TEMPORARY AND EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHOWN.
6. REFER TO SIGNAGE AND PAVEMENT MARKINGS DETAILS FOR ADDITIONAL INFORMATION.
7. ALL PAVEMENT TO RECEIVE A SEAL COAT PRIOR TO PERMANENT PAVEMENT MARKINGS SHOWN BEING INSTALLED.
8. THE CONTRACTOR SHALL COORDINATE LOCATION OF CROSSWALK WITH SCHOOL OFFICIALS.

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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SIGNAGE AND PAVEMENT MARKINGS STA. 13+00 TO STA. 21+00

SHEET 159 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				159

SP-2016-0186D

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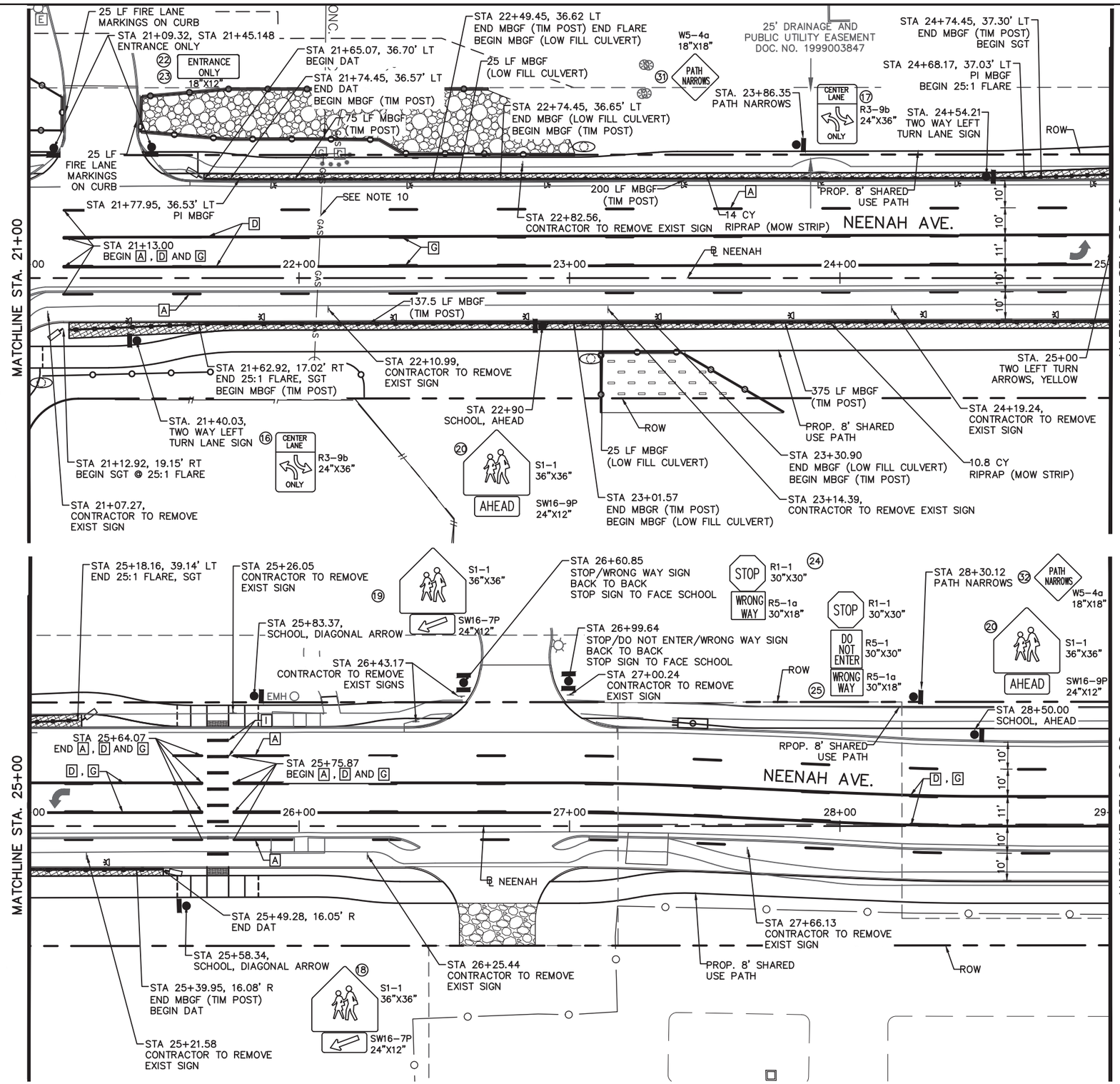

40 0 20 40

1" = 40'

LEGEND

- A — 4" WHITE BROKEN W/RAIS PAV MRKR TYPE I-C @ 40' C-C
- B — 4" WHITE SOLID
- C — 8" WHITE SOLID
- D — 4" YELLOW SOLID
- E — 12" YELLOW SOLID
- F — 12" WHITE SOLID
- G — 4" YELLOW BROKEN W/RAIS PAV MRKR TYPE II-A-A @ 40' C-C
- H — 24" WHITE SOLID
- I — CROSSWALK STRIPING
- J — 6" WHITE DASHED
- K — 6" WHITE SOLID
- RAISED PAVEMENT MARKER
- PROPOSED SIGN
- OM ASSM (OM-2Y) WC (GND)
- DELIN ASSM (D-SW)SZ 1(BRF)GF2
- METAL BEAM GUARD FENCE
- MOW STRIP
- OM ASSM (OM-2Z) FLX (GND)

NOTES:

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
2. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
3. REFER TO INTERSECTION LAYOUT SHEETS FOR MORE INFORMATION.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEET FOR MORE INFORMATION.
5. CONTRACTOR TO REMOVE TEMPORARY AND EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHOWN.
6. ALL PAVEMENT TO RECEIVE A SEAL COAT PRIOR TO PERMANENT PAVEMENT MARKINGS SHOWN BEING INSTALLED.
7. REFER TO DRAINAGE SHEETS FOR ADDITIONAL INFORMATION.
8. REFER TO RETAINING WALL SHEETS FOR ADDITIONAL INFORMATION.
9. SEE SHEETS 165 TO 184 FOR TXDOT METAL BEAM GUARD FENCE, PAVEMENT MARKINGS, AND SIGN DETAILS.
10. THE CONTRACTOR'S ATTENTION IS CALLED TO EXISTING GAS LINE IN VICINITY OF METAL BEAM GUARD FENCE. CONTRACTOR TO LOCATE GAS LINE AND ADJUST MBGF POST LOCATIONS TO AVOID CONFLICT WITH GAS LINE.
11. NORTH GUARDRAIL SHALL INCLUDE A DOUBLE-NESTED RAIL ELEMENT WITH REDUCED POST SPACING AT 3' – 1½".
12. SOUTH GUARDRAIL SHALL INCLUDE WOODEN BLOCKOUTS WITH A REDUCED POST SPACING AT 3' – 1½".
13. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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SIGNAGE AND PAVEMENT MARKINGS STA. 21+00 TO STA. 29+00

SHEET 160 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				160

SP-2016-0186D

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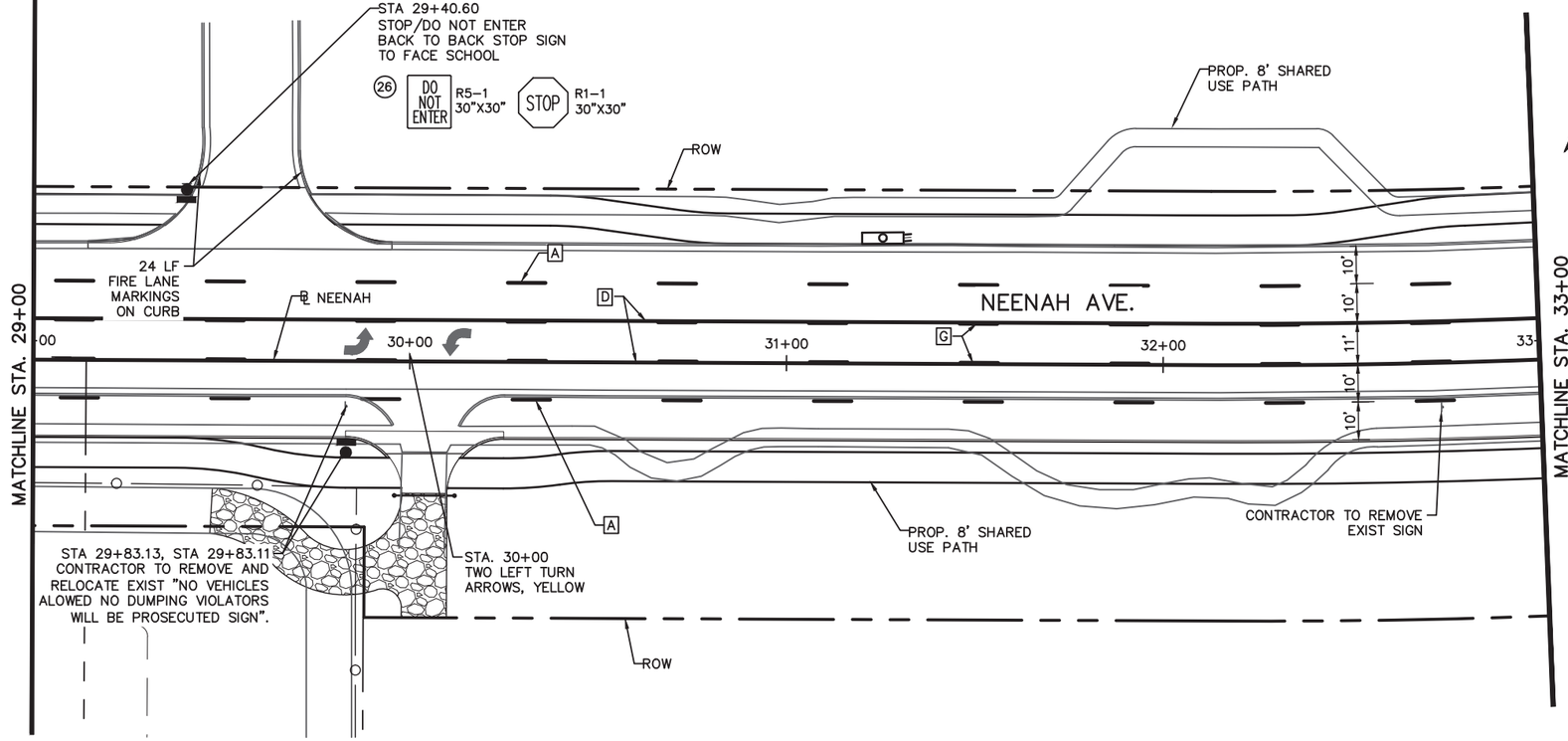

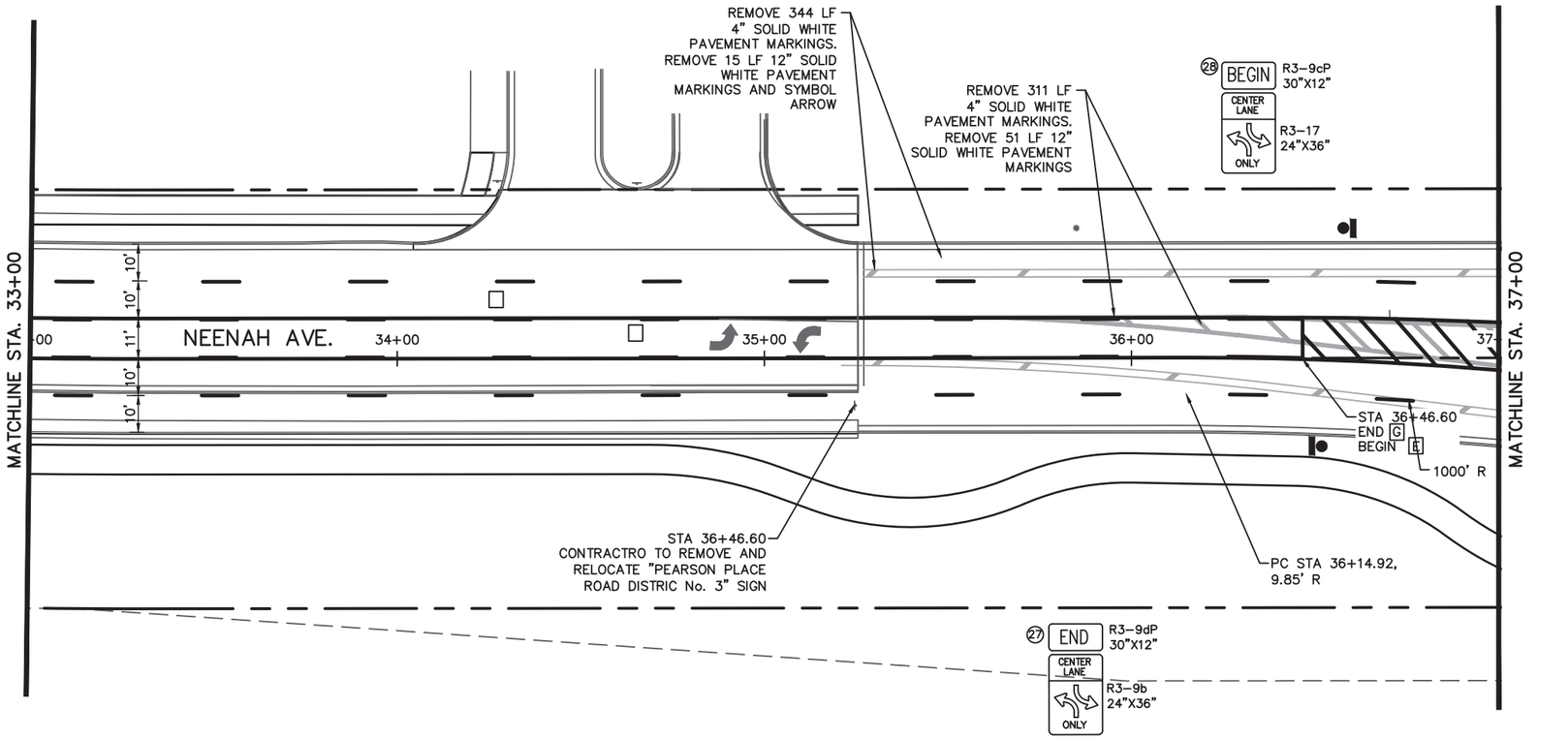

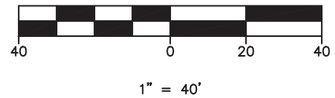

LEGEND

- A 4" WHITE BROKEN W/RAIS PAV MRKR TYPE I-C @ 40' C-C
- B 4" WHITE SOLID
- C 8" WHITE SOLID
- D 4" YELLOW SOLID
- E 12" YELLOW SOLID
- F 12" WHITE SOLID
- G 4" YELLOW BROKEN W/RAIS PAV MRKR TYPE II-A-A @ 40' C-C
- H 24" WHITE SOLID
- I CROSSWALK STRIPING
- J 6" WHITE DASHED
- K 6" WHITE SOLID
- RAISED PAVEMENT MARKER
- PROPOSED SIGN
- METAL BEAM GUARD FENCE

NOTES:

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
2. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
3. REFER TO INTERSECTION LAYOUT SHEETS FOR MORE INFORMATION.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEET FOR MORE INFORMATION.
5. CONTRACTOR TO REMOVE TEMPORARY AND EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHOWN.
6. REFER TO SIGNAGE AND PAVEMENT MARKINGS DETAILS FOR ADDITIONAL INFORMATION.
7. ALL PAVEMENT TO RECEIVE A SEAL COAT PRIOR TO PERMANENT PAVEMENT MARKINGS SHOWN BEING INSTALLED.
8. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
9. CONTRACTOR SHALL PROTECT EXISTING PAVEMENT MARKINGS NOT SHOWN FOR REMOVAL. RESTORATION OF MARKINGS TO REMAIN SHALL BE AT THE EXPENSES OF THE CONTRACTOR.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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SIGNAGE AND PAVEMENT MARKINGS STA. 29+00 TO 37+00

SHEET 161 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				161

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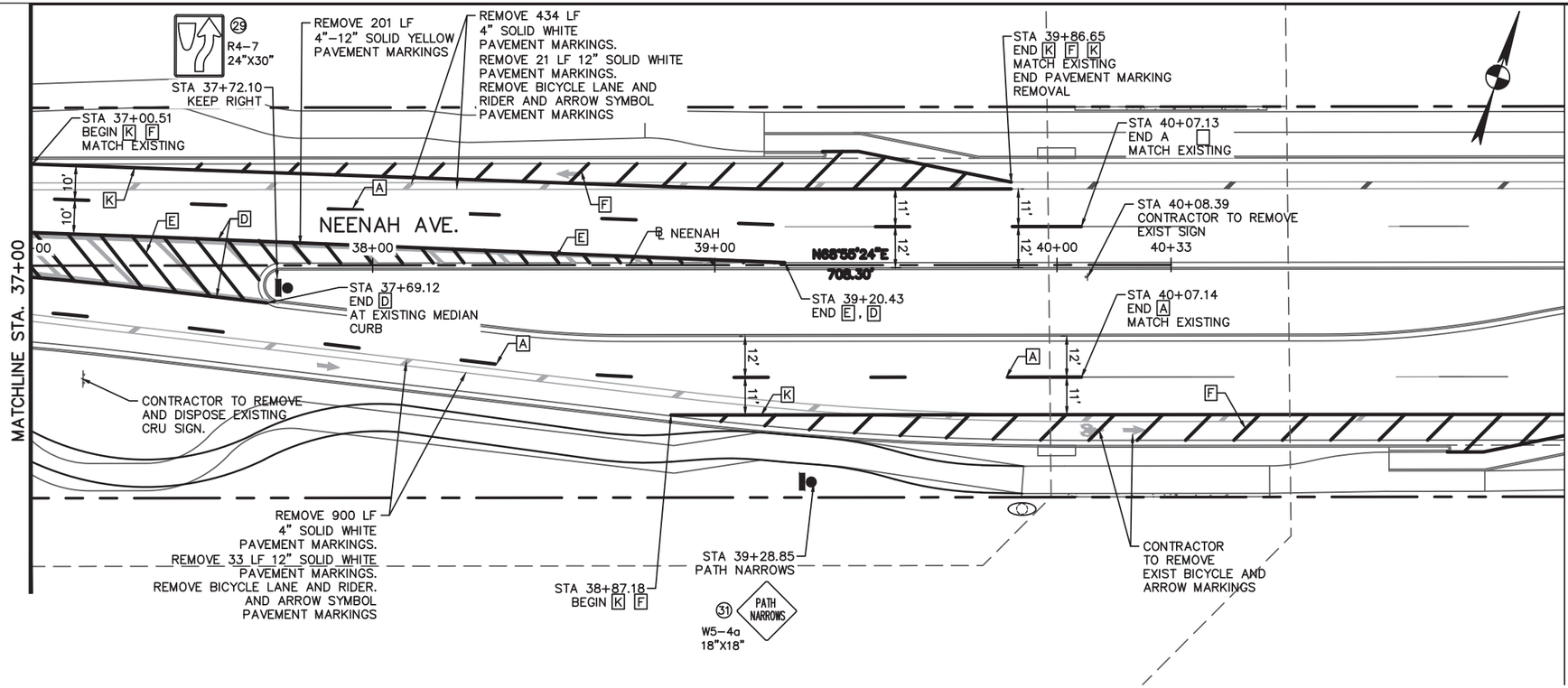

40 0 20 40

1" = 40'

LEGEND

- A 4" WHITE BROKEN W/RAIS PAV MRKR TYPE I-C @ 40' C-C
- B 4" WHITE SOLID
- C 8" WHITE SOLID
- D 4" YELLOW SOLID
- E 12" YELLOW SOLID
- F 12" WHITE SOLID
- G 4" YELLOW BROKEN W/RAIS PAV MRKR TYPE II-A-A @ 40' C-C
- H 24" WHITE SOLID
- I CROSSWALK STRIPING
- J 6" WHITE DASHED
- K 6" WHITE SOLID
- RAISED PAVEMENT MARKER
- PROPOSED SIGN
- METAL BEAM GUARD FENCE
- OM ASSM (OM-2Z) FLX (GND)

NOTES:

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
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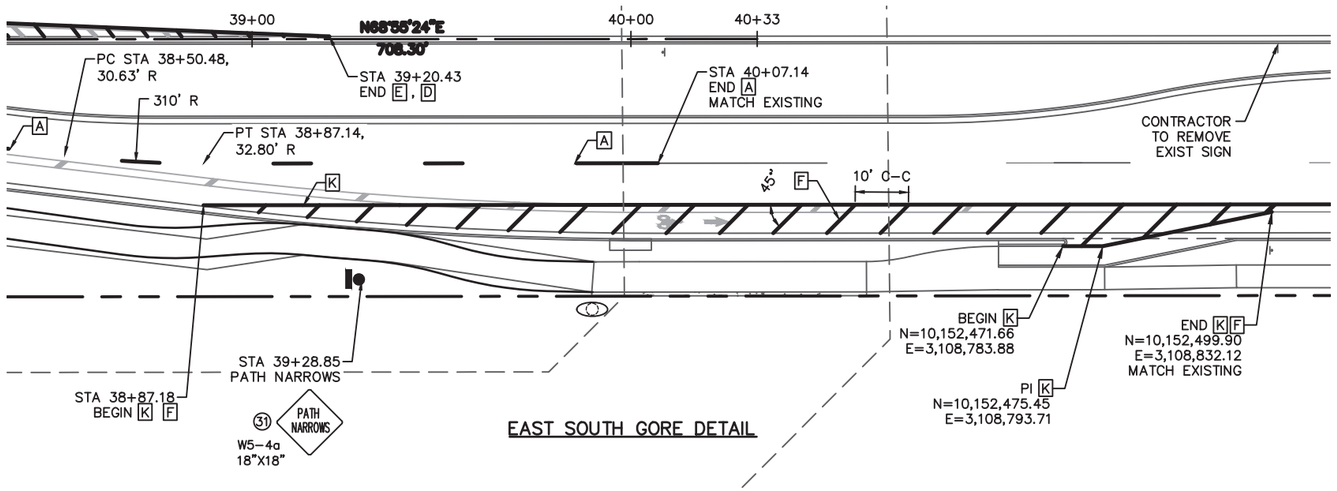
9. CONTRACTOR SHALL PROTECT EXISTING PAVEMENT MARKINGS NOT SHOWN FOR REMOVAL. RESTORATION OF MARKINGS TO REMAIN SHALL BE AT THE EXPENSES OF THE CONTRACTOR.



EAST SOUTH GORE DETAIL

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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SIGNAGE AND PAVEMENT MARKINGS STA. 37+00 TO END

SHEET 162 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				162

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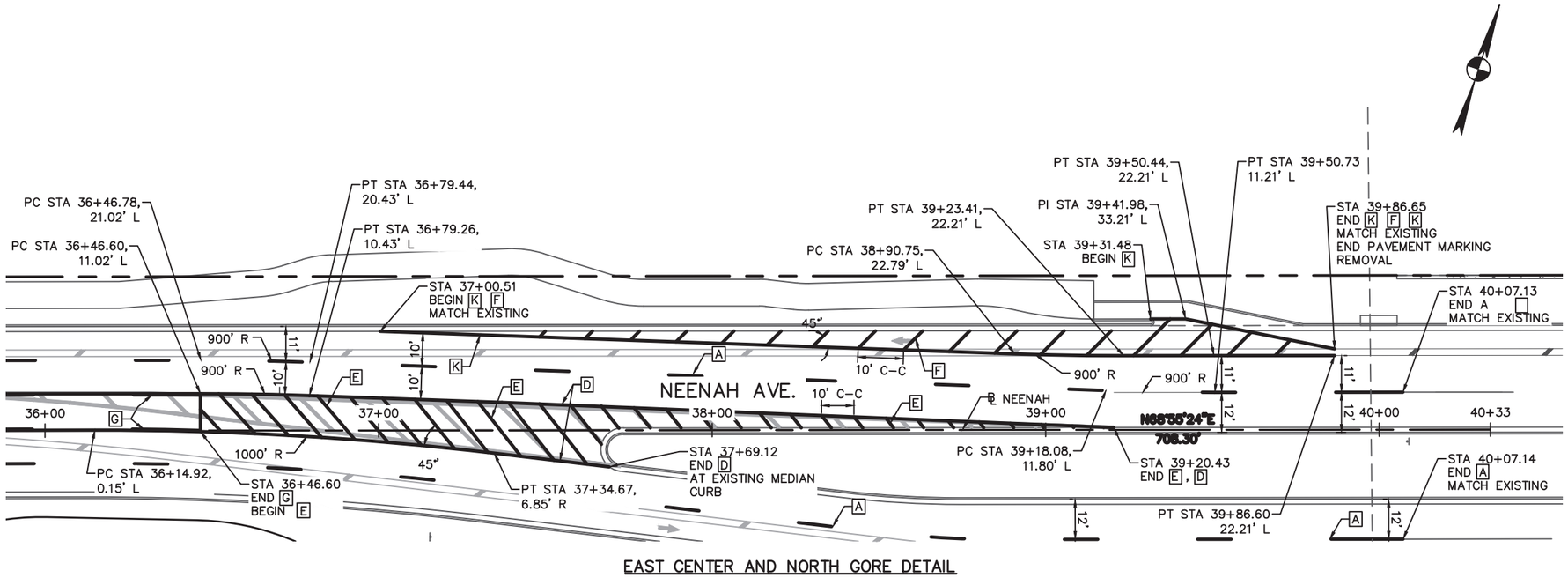
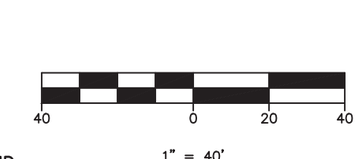


EAST CENTER AND NORTH GORE DETAIL



1" = 40'

LEGEND

- A 4" WHITE SOLID
- B 4" WHITE BROKEN W/RAIS PAV MRKR TYPE I-C @ 40' C-C
- C 8" WHITE SOLID
- D 4" YELLOW SOLID
- E 12" YELLOW SOLID
- F 12" WHITE SOLID
- G 24" WHITE SOLID
- H 4" YELLOW BROKEN W/RAIS PAV MRKR TYPE II-A-A @ 40' C-C
- I CROSSWALK STRIPING
- J 6" WHITE DASHED
- K 6" WHITE SOLID
- RAISED PAVEMENT MARKER
- PROPOSED SIGN
- METAL BEAM GUARD FENCE
- OM ASSM (OM-2Z) FLX (GND)

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NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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PAVEMENT MARKING GORE DETAILS

SHEET 163 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				163

SP-2016-0186D

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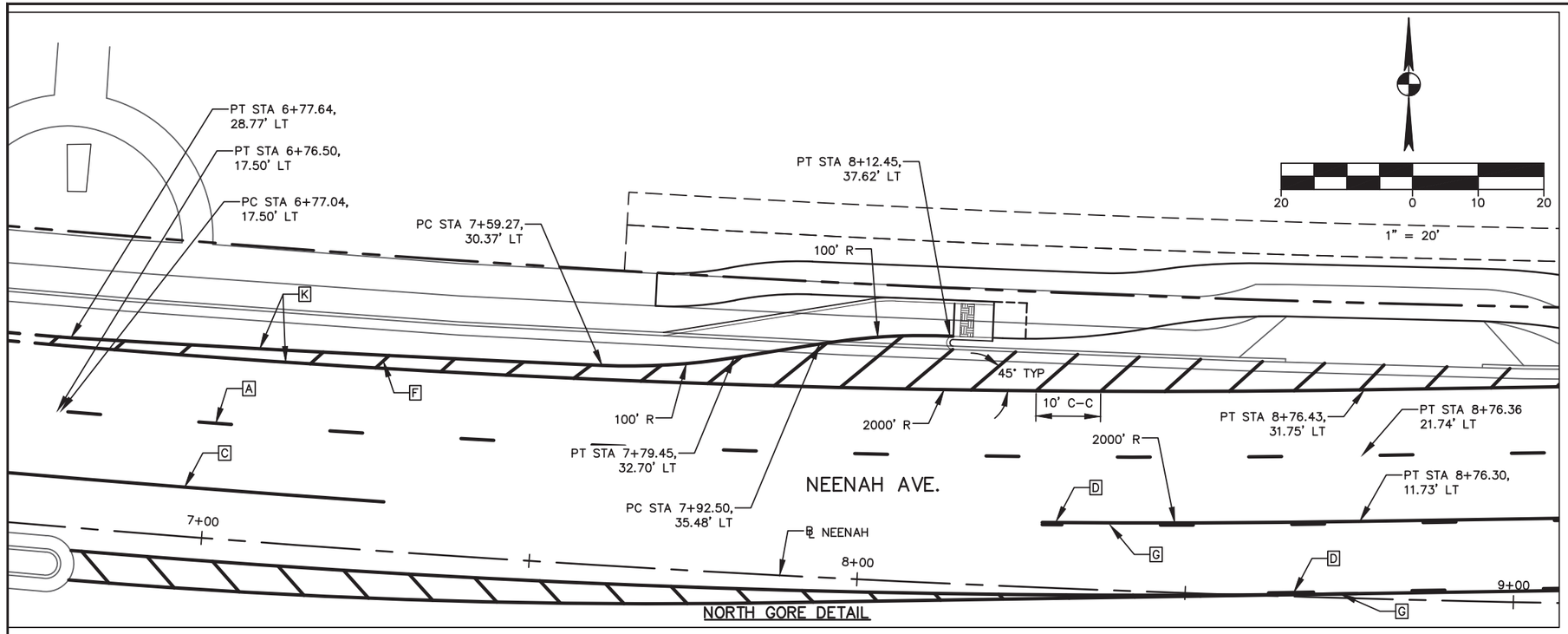
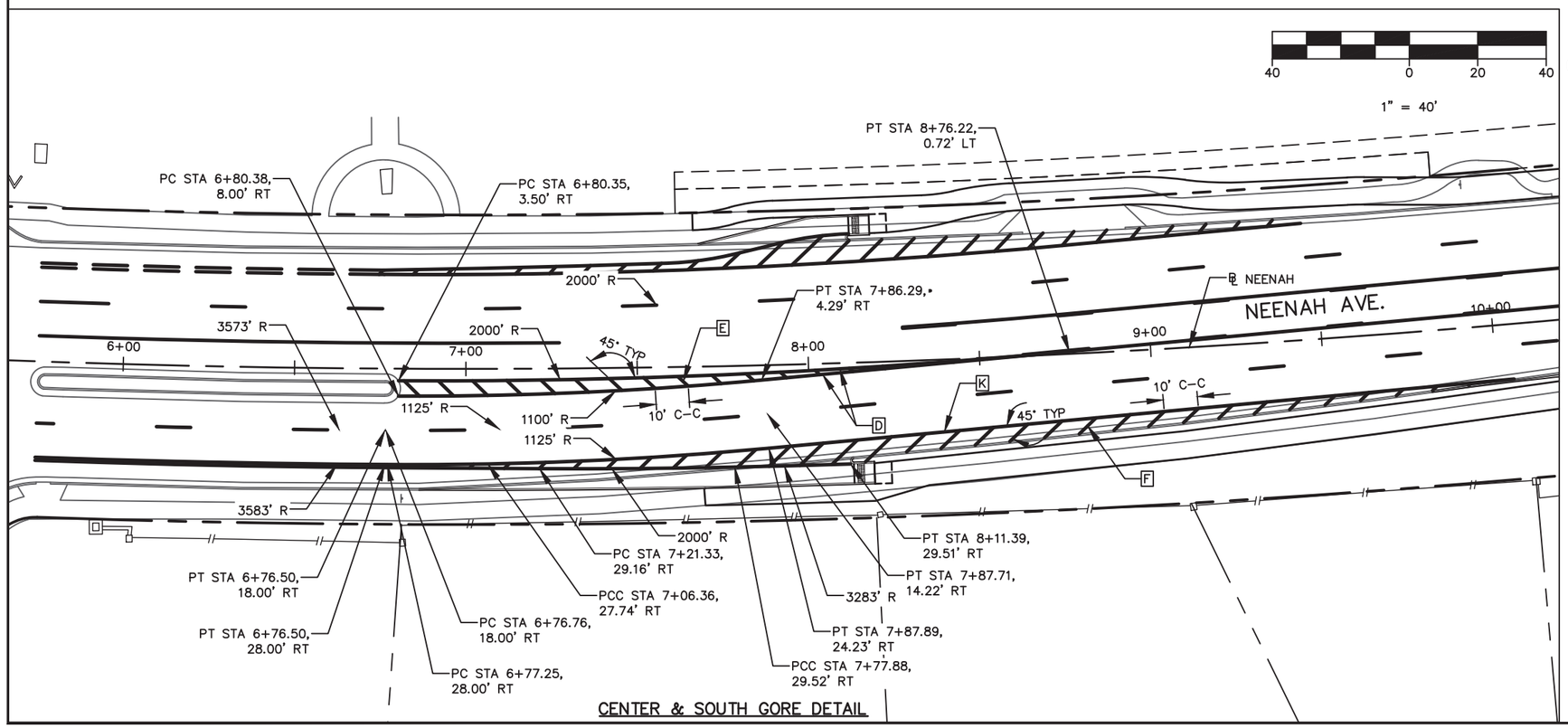


NORTH GORE DETAIL



CENTER & SOUTH GORE DETAIL

LEGEND

- A 4" WHITE BROKEN W/RAIS PAV MRKR TYPE I–C @ 40' C–C
- B 4" WHITE SOLID
- C 8" WHITE SOLID
- D 4" YELLOW SOLID
- E 12" YELLOW SOLID
- F 12" WHITE SOLID
- G 4" YELLOW BROKEN W/RAIS PAV MRKR TYPE II–A–A @ 40' C–C
- H 24" WHITE SOLID
- I CROSSWALK STRIPING
- J 6" WHITE DASHED
- K 6" WHITE SOLID
- • RAISED PAVEMENT MARKER
- PROPOSED SIGN
- METAL BEAM GUARD FENCE

NOTES:

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6. REFER TO SIGNAGE AND PAVEMENT MARKINGS DETAILS FOR ADDITIONAL INFORMATION.
7. ALL PAVEMENT TO RECEIVE A SEAL COAT PRIOR TO PERMANENT PAVEMENT MARKINGS SHOWN BEING INSTALLED.

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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PAVEMENT MARKING GORE DETAILS

SHEET 164 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				164

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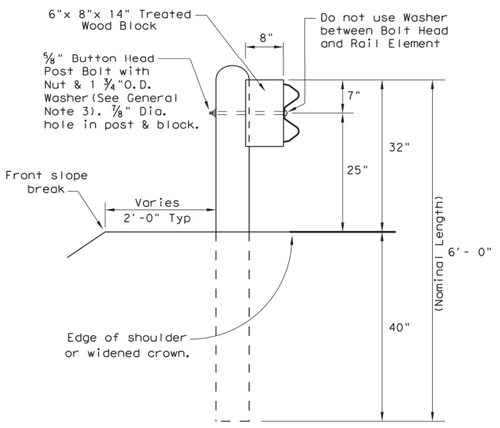
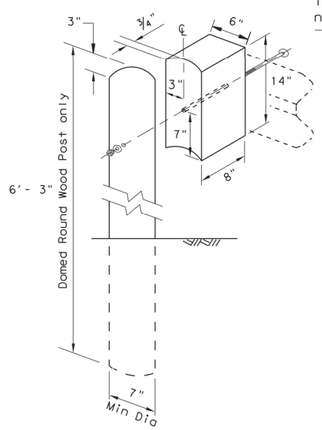
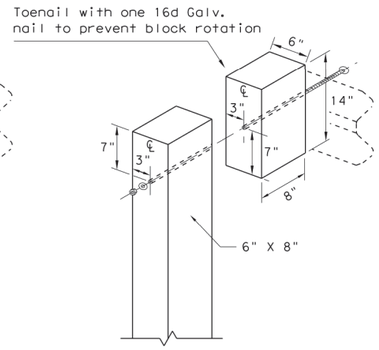
FILE:



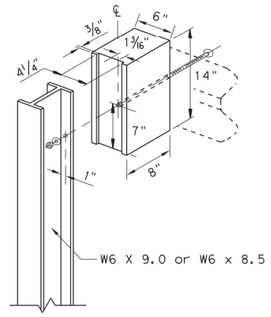
TYPICAL POST



WOOD BLOCK TO ROUND WOOD POST



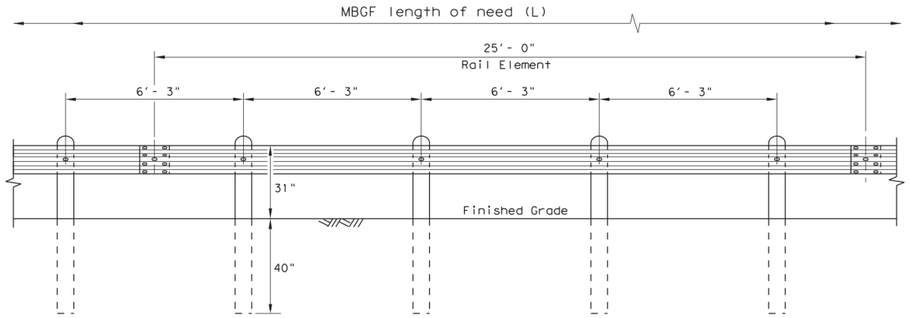
WOOD BLOCK TO RECTANGULAR WOOD POST



WOOD BLOCK TO STEEL POST

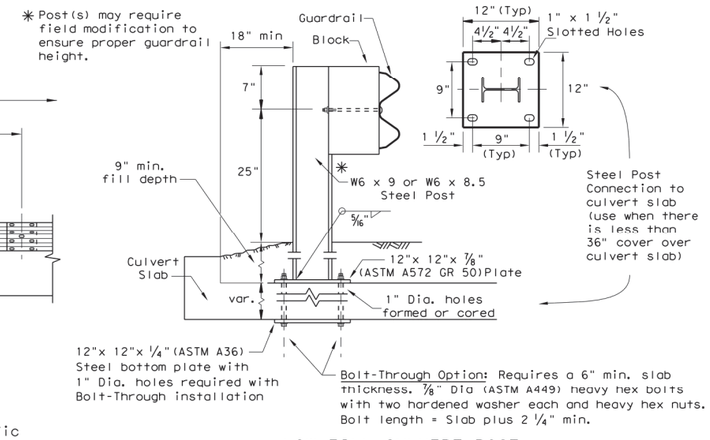
GENERAL NOTES

1. The type of post (round wood post, rectangular wood post, or steel post) will be as shown in the plans. The exact position of MBGF shall be shown in the plans or as directed by the Engineer. Steel posts to be galvanized in accordance with Item 445, "Galvanizing."
2. Rail element shall meet the requirements of Item 540,"Metal Beam Guard Fence" except as modified in the plans. The Contractor may furnish rail elements of 25'- 0", or 12'- 6" (nom.) lengths. Rail elements may have slotted holes at 3'-1½" C-C or 6'-3" C-C. A special length of rail may be manufactured to accommodate the downstream anchor terminal (DAT) and the transition sections of guardrail.
3. Button head "post" bolts (ASTM A307) shall be of sufficient length to extend through the full thickness of the nut (ASTM A563) and Type A (1 ¾" O.D.)washer and not more than 1" beyond it. Button head "splice" bolts (ASTM A307) are ⅝" x 1 ¼" (or 2" long at triple rail splices) with a ⅝" double recessed nut (ASTM A563). Thrie beam "connection" ⅞" dia. (ASTM A325) hex bolts shall be of sufficient length to extend through the full thickness of the rail, washers, and nuts.
4. Fittings (bolts, nuts, and washers) shall be galvanized in accordance with Item 445, "Galvanizing." Fittings shall be subsidiary to the bid item.
5. Crown shall be widened to accommodate the Metal Beam Guard Fence.
6. The lateral approach to the guard fence, shall have a maximum slope of 1V:10H.
7. If shown elsewhere in the plans or as directed by the Engineer, the guard fence may be flared at a rate of 25:1 or flatter.
8. Unless otherwise shown in the plans, guard fence placed in the vicinity of curbs shall be positioned so that the face of curb is located directly below or behind the face of the rail. Rail placed over curbs shall be installed so that the post bolt is located approximately 25 inches above the gutter pan or edge of shoulder.
9. If solid rock is encountered within 0 to 18" of the finished grade, drill a 22" dia. hole, or drill two 12" dia. front to back overlapping holes, 24" into the rock. If solid rock is encountered below 18",drill a 12" dia. hole, 12" into the rock or to the standard embedment depth, whichever maybe less. Any excess post length, after meeting these depths, may be field cut to ensure proper guardrail mounting height. Backfill with a cohesionless material.
10. Posts shall not be set in concrete, of any depth.
11. Special fabrication will be required at installations having a curvature of less than 150 ft. radius.
12. Unless otherwise shown in the plans, a composite material post and/or block that meets the requirements of DMS-7210,"Composite Material Posts and Blocks for Metal Beam Guard Fence" may be substituted for posts and/or blocks of similar dimensions. The Construction Division, TxDOT maintains a Material Producer List (MPL) for producers of materials conforming to DMS-7210. Only producers on the MPL may furnish composite material posts and/or blocks.
13. For posts located partially or wholly between precast box culvert units, the use of a cast-in-place concrete closure between boxes is required. See Detail "A" on Bridge Standard SCP-MD.



ELEVATION MID-SPAN RAIL SPLICE

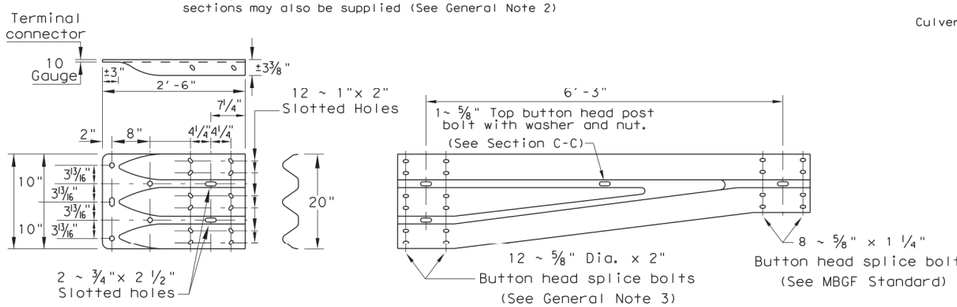
Showing a 25'- 0" section of W-Beam rail, 12'- 6" rail sections may also be supplied (See General Note 2)



LOW FILL CULVERT POST

Culverts of 25 ft. or less, see GF(31)LS standard for "Long Span" option.

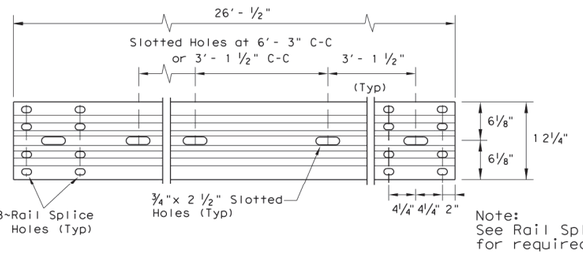
Epoxy Note:
Epoxy Anchor Option: This option may only be used if the culvert slab is 8" min. thick. Threaded anchor rods must be ⅞" Dia. ASTM A449 or A193 Grade B7 with heavy hex nut, and one hardened washer each. Embed anchor rods 6" with Hilti HIT RE 500 epoxy adhesive. Other Type III Class C epoxy adhesives meeting the requirements of DMS-6100, "Epoxies and Adhesives", may be used if it can be demonstrated that they meet or exceed the strength of Hilti HIT RE 500 with the same embedment depth and threaded rod dia. Follow the manufacturer's requirements for installing epoxied threaded rods. Extend rods ¼" min. beyond nut.



THRIE-BEAM TERMINAL CONNECTION

(See General Notes 3 & 4 for required hardware)

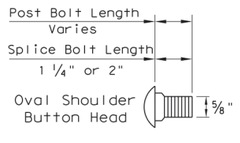
NON-SYMMETRICAL TRANSITION TO W-BEAM (10 Gauge)



Note:
See Rail Splice Detail for required hardware.

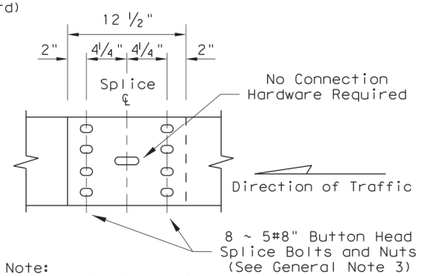
ELEVATION 25'- 0"(NOM.) W-BEAM SECTION

12'- 6" rail sections may also be supplied (See General Note 2)



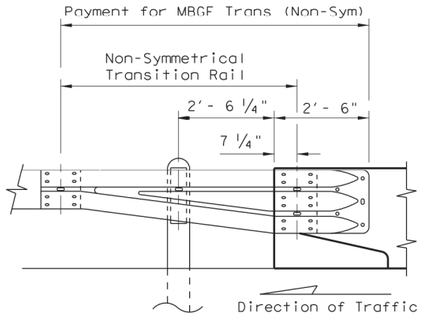
BUTTON HEAD BOLT

Post and Splice Bolts (See General Note 3)



Note:
GF(31), Mid-Span rail splices are required with 6'-3" post spacings.

MID-SPAN RAIL SPLICE DETAIL



Note:
All rail elements shall be lapped in the direction of adjacent traffic.

DOWNSTREAM RAIL ATTACHMENT

Texas Department of Transportation

Design Division Standard

METAL BEAM GUARD FENCE

GF(31)-14

FILE: gf3114.dgn	DN: TxDOT	CK: AM	DW: VP	CK: CGL
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	DIST	COUNTY		SHEET NO. 165

BID 1710-194

Williamson County, Texas

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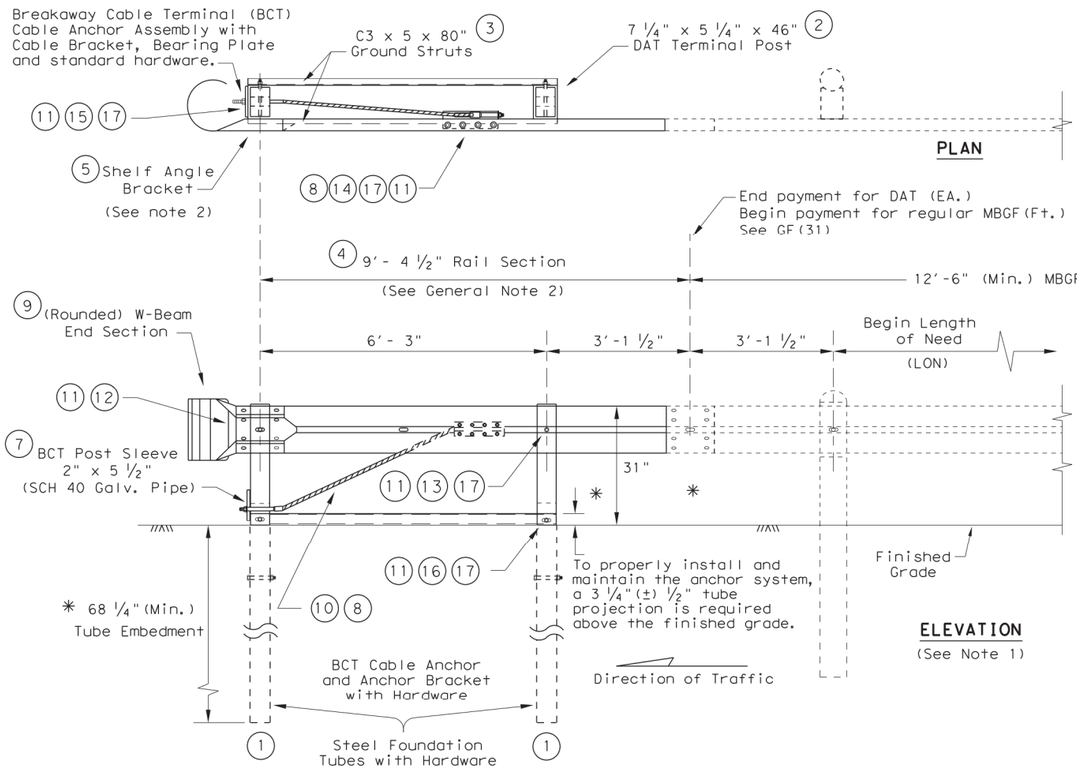


DOWNSTREAM ANCHOR TERMINAL (DAT)

Only for downstream use, when located outside the horizontal clearance area of opposing traffic.

GENERAL NOTES

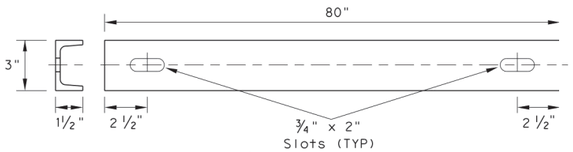
1. The detail shown is the minimum Length of Need (LON) for a DAT connected to a concrete rail.
2. The rail section at the end post is supported by the Shelf Angle Bracket. The rail element is not attached to the end post.
3. The foundation tubes shall not project more than 3 3/4" above the finished grade.
4. All hardware for DAT shall be ASTM A307 unless otherwise shown.
5. Refer to GF(31) sheet for terminal connection details.

MOW STRIP INSTALLATION

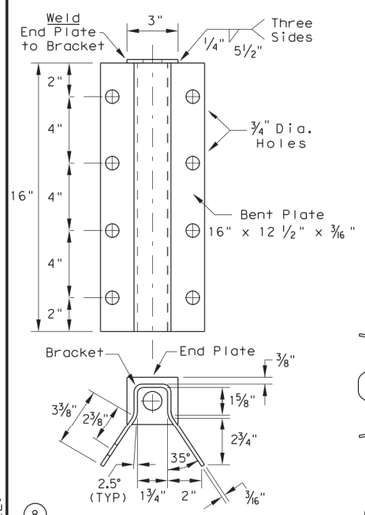
If a mow strip is required with the DAT installation the leave-out area around the steel foundation tubes and the two channel struts may be omitted. This will require a full pour at the foundation tubes.

#	(DAT) PARTS LIST	QTY
(1)	Steel Foundation Tube	2
(2)	DAT Terminal Post	2
(3)	Channel Strut	2
(4)	Terminal Rail Element	1
(5)	Shelf Angle Bracket	1
(6)	BCT Bearing Plate	1
(7)	BCT Post Sleeve	1
(8)	Guardrail Anchor Bracket	1
(9)	(Rounded) W-Beam End Section	1
(10)	BCT Cable Anchor	1
(11)	Recessed Nut, Guardrail	20
(12)	1 1/4" Button Head Bolt	4
(13)	10" Button Head Bolt	2
(14)	5/8" x 2" Hex Head Bolt	8
(15)	5/8" x 8" Hex Head Bolt	4
(16)	5/8" x 10" Hex Head Bolt	2
(17)	5/8" Flat Washer	18

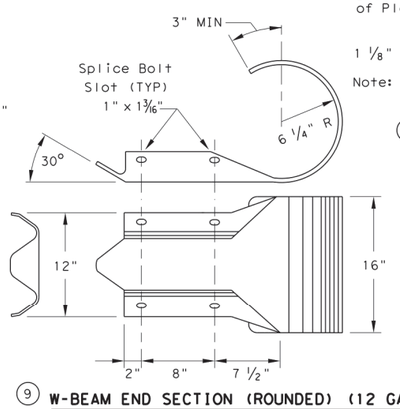
(4) TERMINAL RAIL ELEMENT FOR DAT



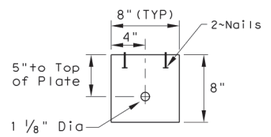
(3) CHANNEL STRUT
C3 x 5 x 80", Grade A36



(8) GUARDRAIL ANCHOR BRACKET

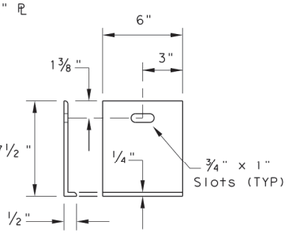


(9) W-BEAM END SECTION (ROUNDED) (12 GA.)

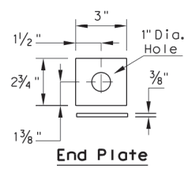


Note: Drive nails and bend over to prevent plate rotation

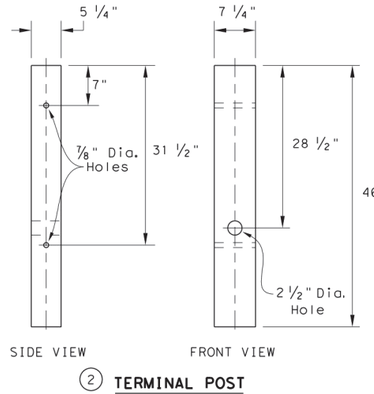
(6) BEARING PLATE
8"x 8"x 5/8" ℄



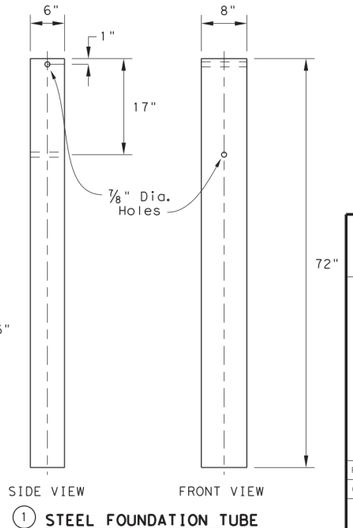
(5) SHELF ANGLE BRACKET



End Plate



(2) TERMINAL POST
7 1/4"x 5 1/4"x 46" Wood Post



(1) STEEL FOUNDATION TUBE
6"x 8"x 1/8" x 72" Steel Tube

SHEET 166 OF 273

Texas Department of Transportation

Design Division Standard

METAL BEAM GUARD FENCE
(Downstream Anchor Terminal)

GF(31)DAT-14

FILE: gf31dt14.dgn	DN: TxDOT	CK: AM	DW: VP	CK: CGL
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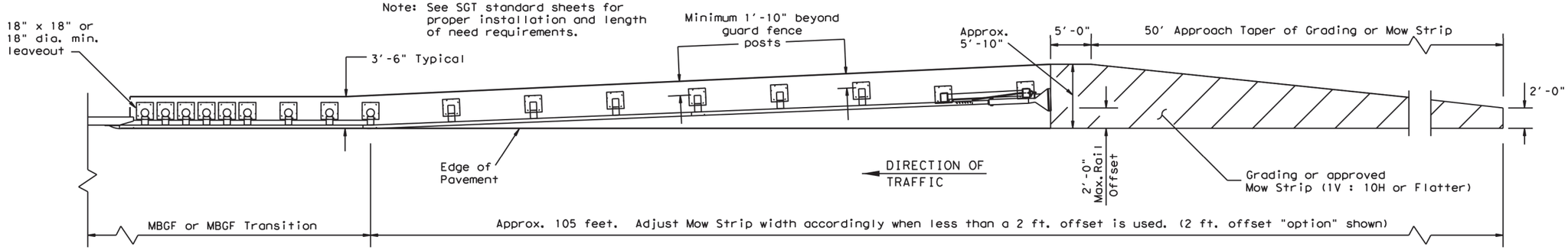
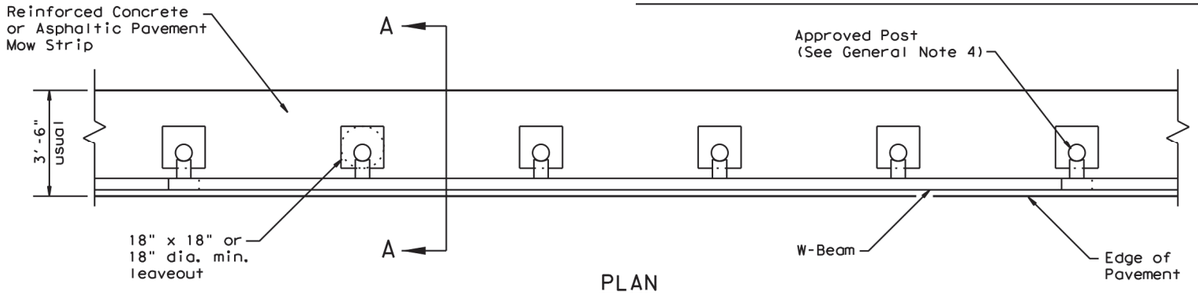
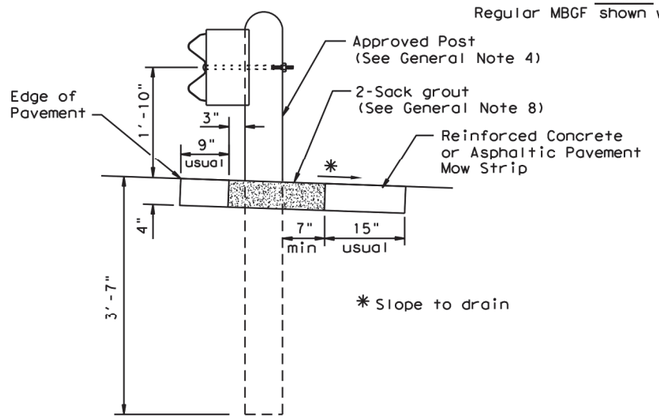


GRADING AND MOW STRIP AT GUARDRAIL END TREATMENTS



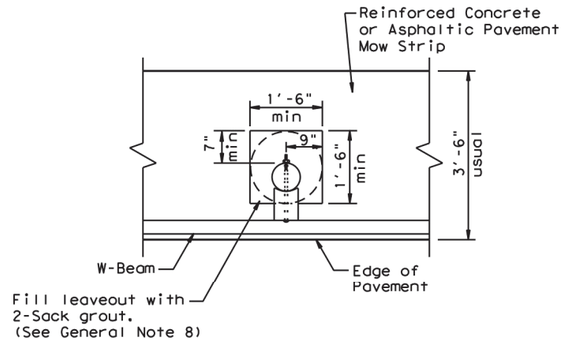
PLAN

Regular MBGF shown with Mow Strip



SECTION A-A

Typical



MOW STRIP DETAIL

Reinforced Concrete or Asphaltic Pavement Mow Strip with 18" x 18" or 18" dia. minimum leaveout.

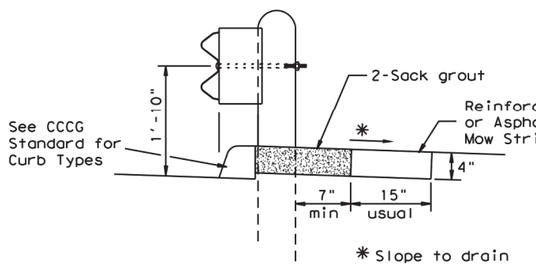
Note: Site Condition(s)

Site conditions may exist where grading is required for the proper installation of metal guard fence and end treatments.

Approach grading or mow strip may be decreased or eliminated. As directed by the Engineer.

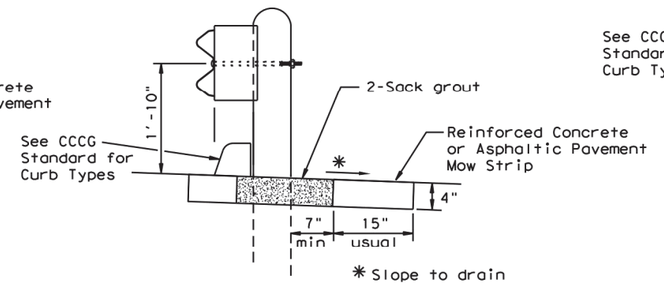
GENERAL NOTES

1. This mow strip design is for use with metal beam guard fence, guard fence transitions, and guard fence end treatments (See SGT standards for proper SGT installation).
2. Mow strips shall be asphaltic pavement or reinforced concrete (wire mesh or synthetic fiber), as shown on the plans and will be paid for under the pertinent bid item of work. Asphaltic pavement shall meet the requirements of the item, and be placed in accordance with the pertinent bid item as shown on the plans. Reinforced concrete shall be placed in accordance with Item 432, "Riprap." The use of the synthetic fiber in lieu of steel reinforcing is acceptable, provided the fiber producer is on the Department Material Producer List (MPL), maintained by TxDOT, Construction Division.
3. The leaveout behind the post shall be a minimum of 7".
4. The type of approved post will be shown elsewhere in the plans. See the applicable standard sheets for additional details and information.
5. Other curb placement options may be used. Curbs are not considered part of the mow strip and will be paid for under other pertinent bid item.
6. Depth of mow strip will be 4".
7. The limits of payment for asphaltic pavement or reinforced concrete will include leaveouts for post.
8. The leaveouts shall be filled with no more than a 2-sack grout mixture and placed in accordance with Section 421.2.F, "Mortar and Grout." Payment for furnishing and placing the grout mixture will be considered subsidiary to the pay item of asphaltic pavement or reinforced concrete.



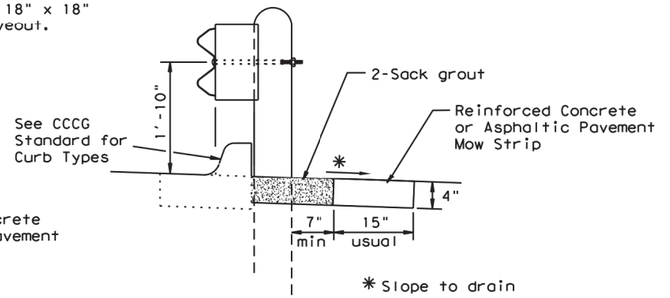
CURB OPTION (1)

This option will increase the post embedment through out the system.



CURB OPTION (2)

Curb shown on top of mow strip



CURB OPTION (3)

SHEET 167 OF 273

Texas Department of Transportation

Design Division Standard

METAL BEAM GUARD FENCE

(MOW STRIP)

MBGF(MS)-11

FILE: mbgfms11.dgn	DN: TxDOT	CK: AM	DW: BD	CK: VP
©TxDOT April 2003	CONT	SECT	JOB	HIGHWAY
REVISIONS 12-2011	DIST	COUNTY		SHEET NO. 167

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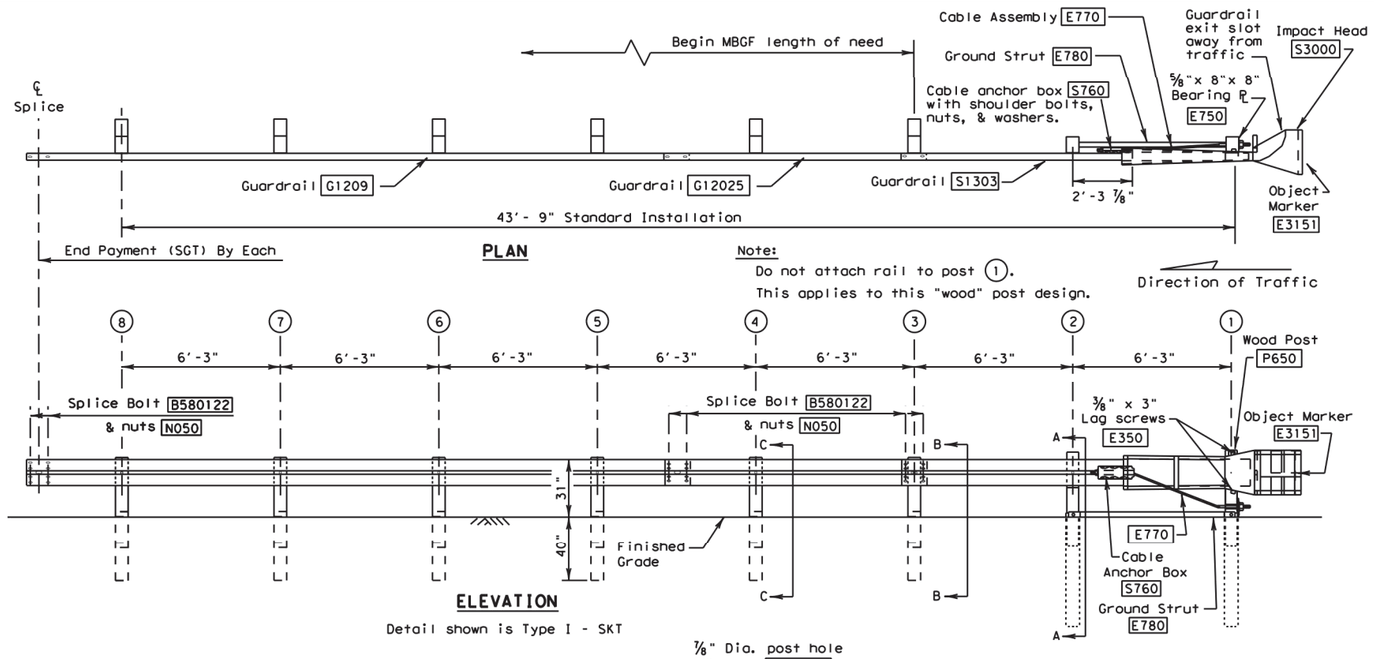
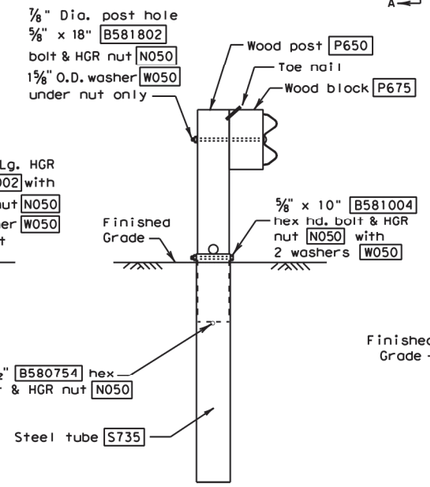
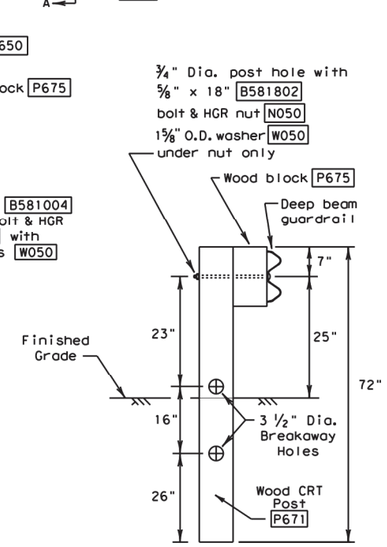
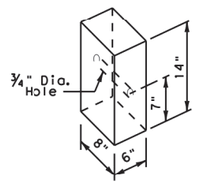




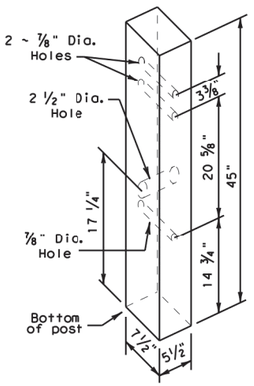
SECTION B-B
Typical Post & Tube System,
Posts 3 & 4 with (Type II)
& Posts 3 Thru 8 with (Type III)



SECTION C-C
Typ. at Posts 3 Thru 8 with (Type I)



WOOD BLOCK
P675



All measurements should be taken from bottom of posts.

UNIVERSAL WOOD POST
P650

BEARING PLATE

PARTIAL VIEW AT POST #1

SECTION A-A
(at post 2)

Note: Site Condition(s)
Site conditions may exist where grading is required for the proper installation of metal guard fence and end treatments.

APPROACH GRADING AT GUARDRAIL END TREATMENTS

GENERAL NOTES

1. For additional information contact: Interstate Steel Inc. (432) 263-3725
2. The Type of SGT unit will be specified elsewhere in the plans. The numbers in the circles indicate post position. The Type of SGT unit chosen is a maintenance consideration and does not affect the systems performance.

	Post & Tube Options	Post Only
Type I	Posts ① thru ②	Posts ③ thru ⑧
Type II	Posts ① thru ④	Posts ⑤ thru ⑧
Type III	Posts ① thru ⑧	None

3. SGT's placed within the "minimum" 150 ft. radius, shall be installed straight. Standard rail elements may be installed within the radius, without special fabrication.
4. All bolts, nuts cable assemblies, cable anchors, steel tubes & bearing plates shall be galvanized.
5. A flare rate of 25:1 may be used over the first 50 ft. of the system to prevent the terminal head from encroaching the shoulder. The flare may be decreased or eliminated for specific installations, if directed by the Engineer.
6. The steel tubes shall not protrude more than 4 inches above ground. Site grading may be necessary to meet this requirement.
7. The steel tubes may be driven with an approved driving head. They shall not be driven with the wood post in the tube. If the steel tubes are placed in drilled holes, the backfill material must be satisfactorily compacted to prevent tube settlement.
8. If solid rock is encountered. See the Manufacturer's installation manual for the proper installation guidance.
9. The breakaway cable assembly must be taut. A locking device, (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening the nuts.
10. The wood blocks shall be "toe nailed" to the rectangular wood posts to prevent them from turning when the wood shrinks. The bearing plate on the front post shall also be "toe nailed" to prevent rotation.
11. For curb installations, the soil tubes and posts shall be installed at the proper ground elevation behind the curb. The posts will then require field drilling new holes to accommodate the rail to post connection bolt to maintain the proper height of the rail above the gutter pan. The excess post length above the rail will be removed if directed by the Engineer.
12. An object marker shall be installed on the front of the impact head as detailed on D&OM(VIA).

BILL OF MATERIAL

Item #	POST & TUBE OPTIONS Type I	Type II	Type III	DESCRIPTION
S1303	1	1	1	Guardrail (12 Ga.) 12'- 6" SKT
G12025	1	1	1	Guardrail (12 Ga.) 9'- 4 ½"
G1209	1	1	1	Guardrail (12 Ga.) 25'- 0"
S730	2	2	2	Steel Tube - 6" x 8" x 72" x ⅛" min. or ³⁄₁₆"
S735	0	2	6	Steel Tube - 6" x 8" x 54" x ⅛" min. or ³⁄₁₆"
P650	2	4	8	Wood Posts - 5 ½" x 7 ½" x 45"
P671	6	4	0	Wood CRT Posts - 6" x 8" x 72"
P675	6	6	6	Wood Block - 6" x 8" x 14"
E740	1	1	1	Pipe Sleeve - 2" Std. Pipe x 5 ½"
E750	1	1	1	Bearing Plate - ⅝" x 8" x 8"
S760	1	1	1	Cable Anchor Box
E770	1	1	1	Cable Assembly
E780	1	1	1	Ground Strut
S3000	1	1	1	Impact Head
				HARDWARE
B580754	2	4	8	⅝" x 7 ½" Hex Hd. Bolt
B581004	2	4	8	⅝" x 10" Hex Hd. Bolt (Top of Tubes)
W050	11	15	23	⅝" Washers
B581002	1	1	1	⅝" x 10" HGR Post Bolt (Post 2)
B580122	16	16	16	⅝" x 1 ¼" HGR Splice Bolt
B581802	6	6	6	⅝" x 18" HGR Post Bolt (Posts ③ thru ⑧)
N050	35	39	47	⅝" HGR Nut (24-Spl, Varies-Posts, 2-Strut)
E350	2	2	2	⅜" x 3" Lag Screw
N100	2	2	2	1" Hex Nut (Anchor Cable)
W100	2	2	2	1" Washer (Anchor Cable)
SB12A	8	8	8	Cable Anchor Box Shoulder Bolts
N012A	8	8	8	½" Structural Nut
W012A	8	8	8	½" Structural Washer
E3151	1	1	1	Object Marker - (18" x 18")

POST & TUBE OPTIONS	
Type I	post ① thru ②
Type II	post ① thru ④
Type III	post ① thru ⑧

Texas Department of Transportation — Design Division Standard

SINGLE GUARDRAIL TERMINAL (SKT-31) (WOOD POST)

SGT(8)31-14

FILE: sgt83114.dgn	DN: TxDOT	CK: AM	DW: BD/VP	CK: VP
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	DIST	COUNTY		SHEET NO. 168

DATE: 1710-194
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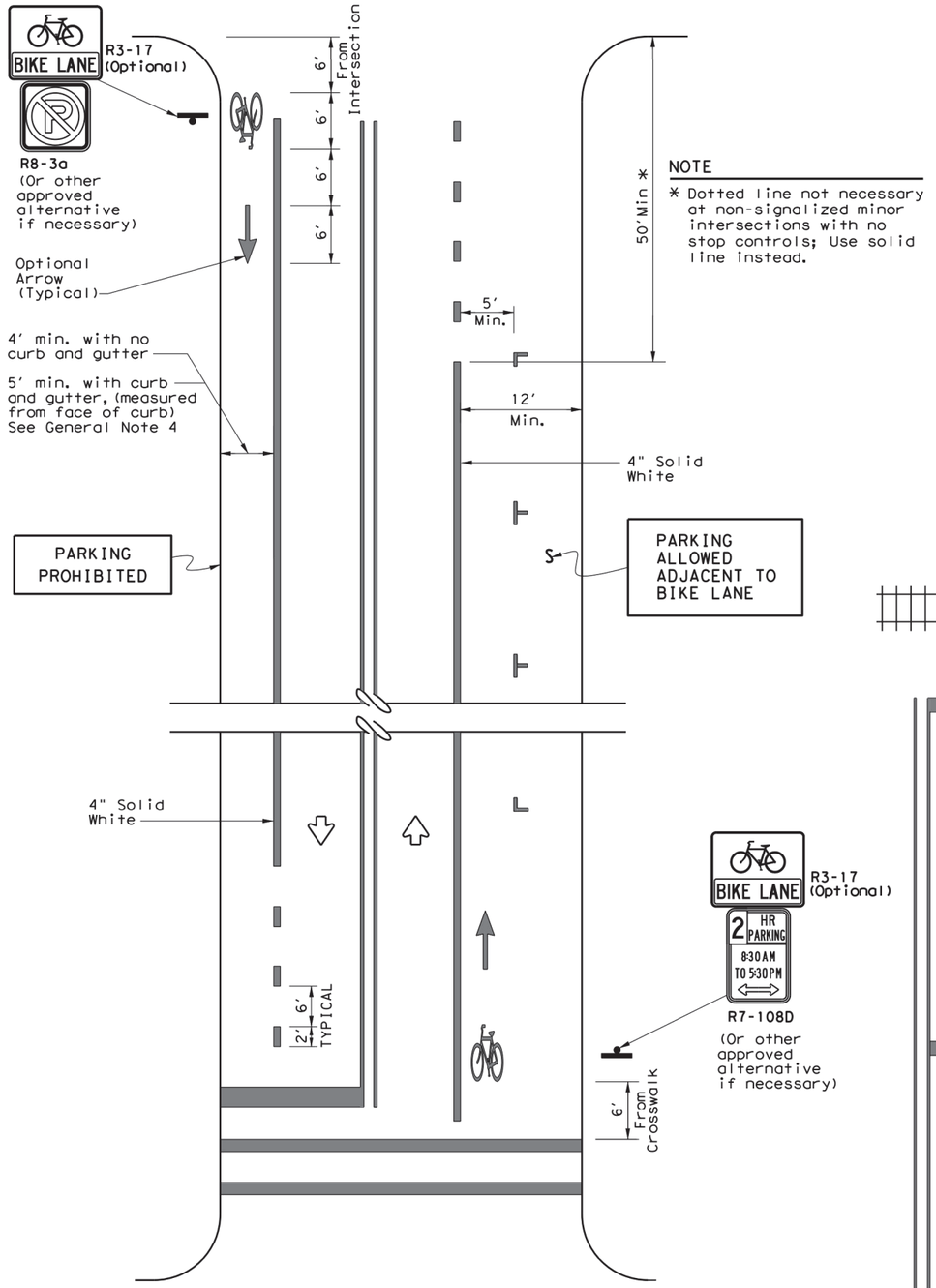


NOTE

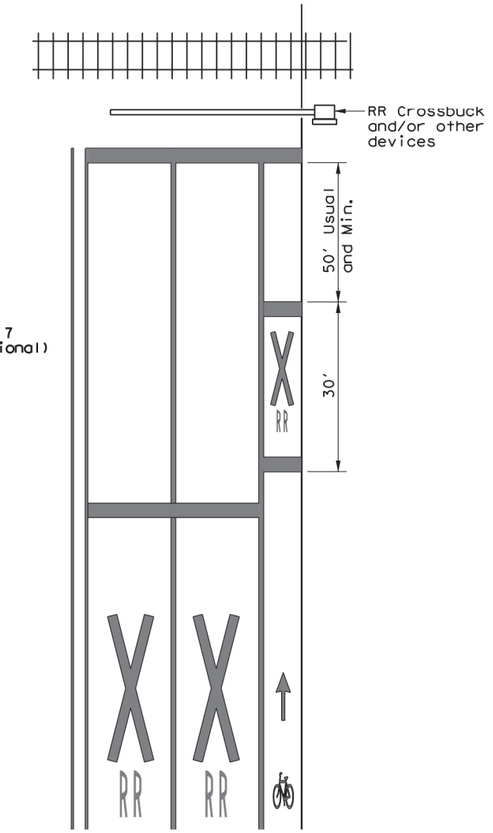
* Dotted line not necessary at non-signalized minor intersections with no stop controls; Use solid line instead.

NOTES

1. Bicycle lane pavement markings typically repeated after each intersection or signalized driveway.
2. On uninterrupted sections of roadway, bicycle lane pavement markings typically repeated as follows:

   -1200' for 45 MPH or less roads
   -2500' for 50 MPH and greater roads.

TWO-WAY STREET



(See RCPM Standard for travel lane details)

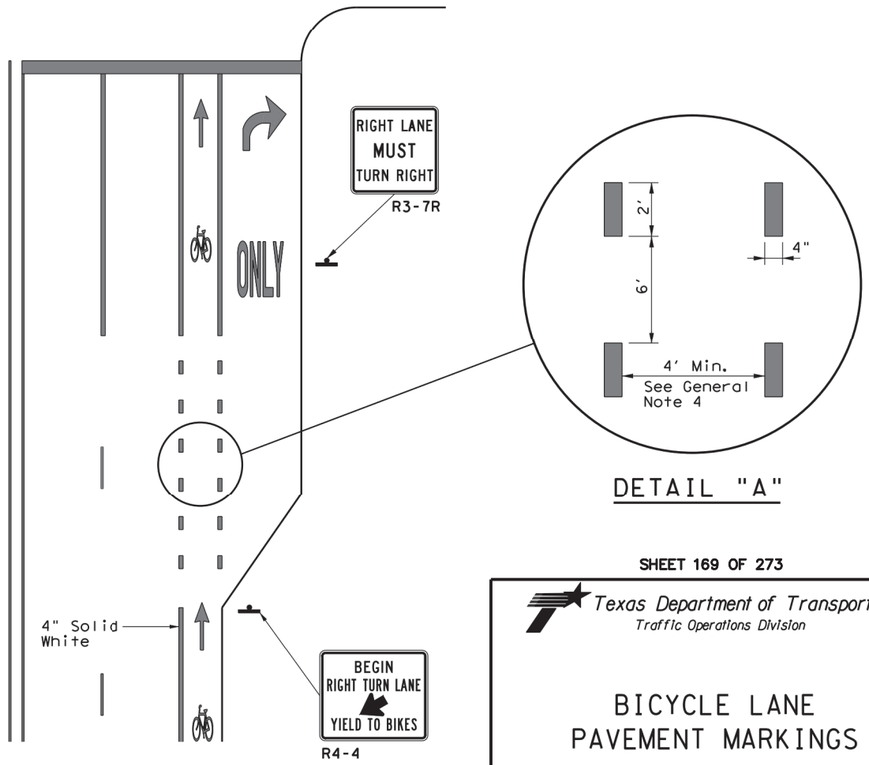
RAILROAD CROSSING APPROACH

GENERAL NOTES

1. All bicycle lane pavement markings shall be white unless otherwise noted.
2. All pavement marking materials shall meet the required Department Material Specifications as specified by the plans.
3. Exact sign placement and details are shown elsewhere in the plans.
4. The current edition of AASHTO'S Guide for the Development of Bicycle Facilities should be referenced for variations in design, other geometric conditions, and lane width options.
5. Other bicycle lane symbol or word markings as shown in the Texas Manual on Uniform Traffic Control Devices may be used. Details for words, arrows and symbols as shown in the Standard Highway Sign Designs for Texas.
6. The "BIKE LANE" (R3-17) sign with the "AHEAD" (R3-17a) sign mounted directly below should be installed in advance of the beginning of a marked bike lane.
7. The "BIKE LANE" (R3-17) sign with the "END" (R3-17b) sign mounted directly below should be installed at the end of marked bicycle lane.

LEGEND	
	Sign
	Traffic Flow

SPECIFICATION REFERENCE TABLE	
Traffic Paint	DMS-8200
Hot Applied Thermoplastic	DMS-8220
Permanent Prefabricated Pavement Markings	DMS-8240
Glass Traffic Beads	DMS-8290



RIGHT TURN ONLY LANE

DETAIL "A"

SHEET 169 OF 273

Texas Department of Transportation
Traffic Operations Division

BICYCLE LANE PAVEMENT MARKINGS

BLPM-10

© TxDOT May 2010	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
REVISIONS	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.
				169

DATE:
FILE: bld1710-194

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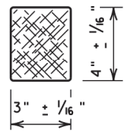
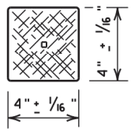
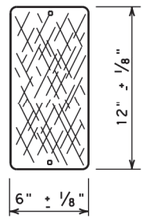
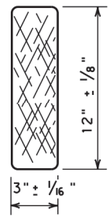
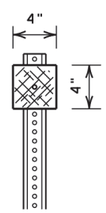
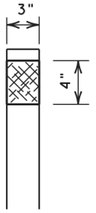
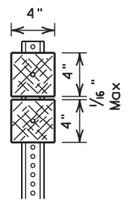
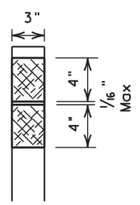
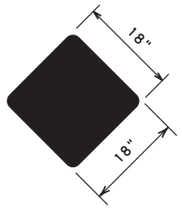
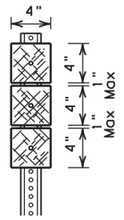
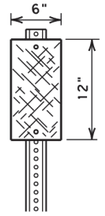
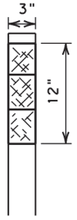
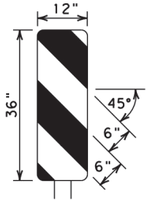
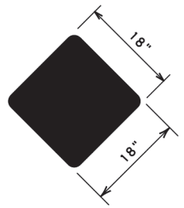
REFLECTOR UNIT SIZES FOR DELINEATORS AND OBJECT MARKERS

	SIZE 1	SIZE 2	SIZE 3	SIZE 4
DEVICE				
SHEETING	Yellow, White or Red Type B or C reflective sheeting			
NOTE	1. Size 1 and 4 - Direct applied reflective sheeting for use on flexible post (flx). 2. Size 2 and 3 - For use on wing channel (wc) post only. Use approved metal, plastic or fiberglass backplate with 17/64" mounting holes.			

DELINEATORS

DEVICE	SINGLE		DOUBLE	
				
	1-Size 2 reflector unit	1-Size 1 reflector unit	2-Size 2 reflector units	2-Size 1 reflector units
SHEETING	Yellow, White or Red Type B or C Reflective Sheeting			
POST TYPE	WC	FLX	WC	FLX
MOUNT TYPE	GND	GND, SRF	GND	GND, SRF

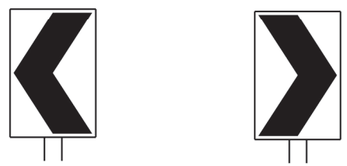
OBJECT MARKERS

	Type 1 (OM-1)	Type 2 (OM-2)			Type 3 (OM-3)			Type 4 (OM-4)
	OM-1	OM-2X	OM-2Y	OM-2Z	OM-3L	OM-3R	OM-3C	OM-4
DEVICE								
		3-Size 2 reflector units	1-Size 3 reflector unit	3-Size 1 reflector units or 1-Size 4 reflector unit				
SHEETING	Yellow-Type B_{FL} or C_{FL} Sheeting	Yellow - Type B or C Sheeting			Alternating acrylic black and retroflective yellow - Type B_{FL} or C_{FL} Sheeting			Red -Type B_{FL} or C_{FL} Sheeting
POST TYPE	TWT	WC	WC	FLX	TWT			TWT
MOUNT TYPE	WAS, WAP	GND	GND	GND, SRF	WAS, WAP			WAS, WAP

BARRIER REFLECTORS (BRF)

DEVICE	GF1	GF2	CTB
	1. Barrier reflectors shall meet the requirements of DMS 8600. 2. Approved Barrier Reflectors are listed on the "Barrier Reflectors" Material Producer List at: www.txdot.gov.		
SHEETING	Yellow, White, Red		
NOTE	1. Minimum 9 square inches of reflective sheeting surface area.		

CHEVRONS

DEVICE	 W1-8			
SIZE (W x L)	18"x 24" (Conventional)	24"x 30" (Conventional Oversize)	30"x 36" (Expressway)	36" x 48" (Freeway)
MOUNTING HEIGHT	4'-0" or 7'-0"		7'-0" Only	
NOTE	1. CHEVRON (W1-8) signs and ONE DIRECTION LARGE ARROW (W1-6) Signs shall be installed per Sign Mounting Details (SMD) Standard Sheets and paid under Item 644 (Small Roadside Sign Assemblies). 2. The Texas version of the ONE DIRECTION LARGE ARROW sign (W1-9T) may be used instead of the ONE DIRECTIONAL LARGE ARROW (W1-6).			

ONE DIRECTION LARGE ARROW

DEVICE	W1-6	
SIZE (W x L)	48" x 24" (Conventional)	60" x 30" (Expressway & Freeway)
MOUNTING HEIGHT	7'-0"	

D & OM DESCRIPTIVE CODES

INSTL DEL ASSM (D-XX)SZ X (XXX)XXX(XX)

- NUMBER OF REFLECTORS
  - S = Single
  - D = Double
- COLOR OF REFLECTORS
  - W = White
  - Y = Yellow
  - R = Red
- REFLECTOR UNIT SIZE
  - 1 or 2
- TYPE OF POST OR DELINEATOR
  - WC = Wing Channel Post
  - FLX = Flexible Post
  - BRF = Barrier Reflector
- TYPE OF MOUNT
  - GND = Embedded (drivable or set in concrete)
  - CTB = Concrete Barrier Mount
  - GF1 or GF2 = Guard Fence Attachment
  - SRF = Surface Mount
- DIRECTION
  - If Required
  - BI = Bi-Directional
  - BR = Bi-Directional with red on back

INSTL OM ASSM (OM-XX) (XXX)XXX(XX)

- TYPE OF OBJECT MARKER
  - 1, 2, 3, or 4
- NUMBER OF REFLECTORS OR DIRECTION
  - X = 3-Size 2 reflector units (Type 2 only)
  - Y = 1-Size 3 reflector unit (Type 2 only)
  - Z = 3-Size 1 or 1-Size 4 reflector unit(s) (Type 2 only)
  - L = Left Side (Type 3 Object Marker only)
  - R = Right Side (Type 3 Object Marker only)
  - C = Center (Type 3 Object Marker only)
- TYPE OF POST
  - WC = Wing Channel Post
  - FLX = Flexible Post
  - TWT = Thin Walled Tubing
- TYPE OF MOUNT
  - GND = Embedded (drivable)
  - SRF = Surface Mount
  - WAS = Wedge Anchor Steel
  - WAP = Wedge Anchor Plastic
- DIRECTION
  - If Required
  - BI = Bi-Directional

DEPARTMENTAL MATERIAL SPECIFICATIONS	
FLEXIBLE DELINEATOR & OBJECT MARKER POSTS (EMBEDDED & SURFACE MOUNT TYPES)	DMS-4400
SIGN FACE MATERIALS	DMS-8300
DELINEATORS, OBJECT MARKERS AND BARRIER REFLECTORS	DMS-8600

NOTE:

Delineator and object marker backplates and sign substrates shall be 0.080" Aluminum sign blank to conform to ASTM B-209 Alloy 6061-T6 or approved alternative.

SHEET 170 OF 273

Texas Department of Transportation

Traffic Operations Division Standard

DELINEATOR & OBJECT MARKER MATERIAL DESCRIPTION

D & OM(1)-15

FILE: dom1-15.dgn	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
© TxDOT August 2004	CONT	SECT	JOB	HIGHWAY
REVISIONS				
10-09 3-15	DIST	COUNTY		SHEET NO.
4-10				170

20A

DATE:
FILE: Bid 1710-194

Williamson County, Texas

10/10/2017 6:54 AM

p. 414

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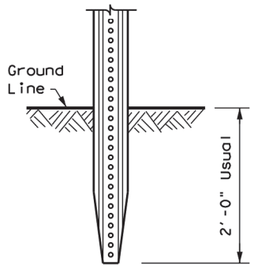
POST TYPE AND SUPPORT FOUNDATION DETAILS

WING CHANNEL (WC)

GND

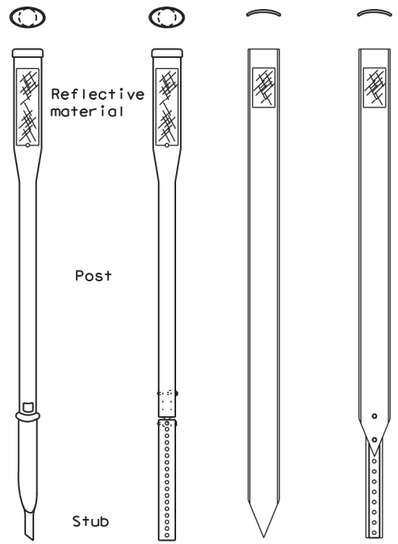


NOTES

1. Embedded Wing Channel (WC) post option may be used for Type 2 Object Markers and Delineators only.
2. 1.12 lbs/ft steel per ASTM A 1011 SS Gr. 50, or ASTM A499.

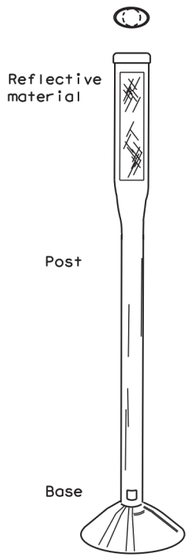
FLEXIBLE POSTS (FLX)

GND



EMBEDDED

SRF



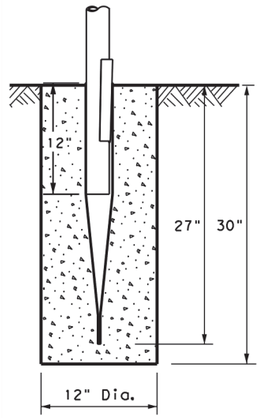
SURFACE MOUNT

NOTES

1. See "Flexible Delineator and Object Marker Posts" Material Producer List for approved devices.
2. Install per manufacturer's recommendations.
3. Post length may vary to meet field conditions.

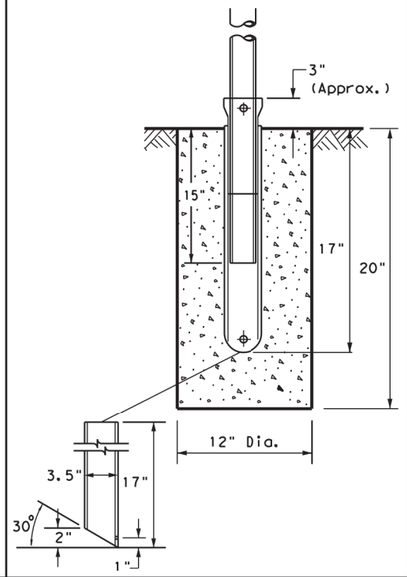
WEDGE ANCHOR SYSTEMS

WAS



STEEL

WAP



PLASTIC

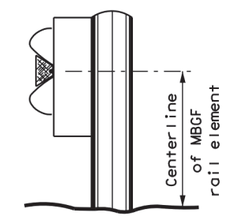
NOTE

1. Install per manufacturer's recommendations.

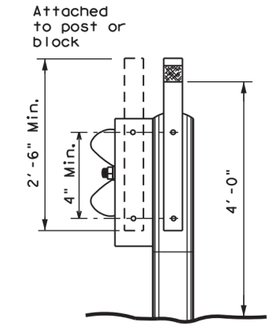
TYPE OF BARRIER MOUNTS

GUARD FENCE ATTACHMENT

GF1

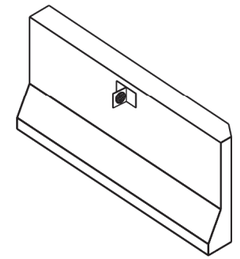


GF2

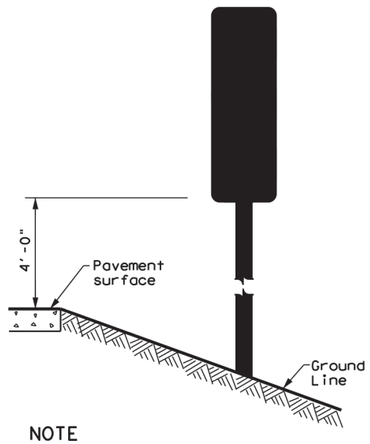


CONCRETE BARRIER / BRIDGE RAIL

CTB



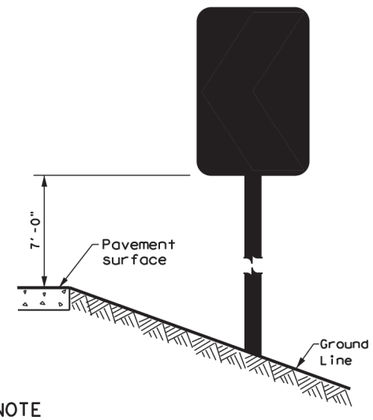
TYPES 1, 3, AND 4 OBJECT MARKERS AND CHEVRONS



NOTE

Mounting at 4 feet to the bottom of the chevron is permitted for chevrons that will not exceed a height of 6'-6" to the top of the chevron (sizes 24" x 30" and smaller)

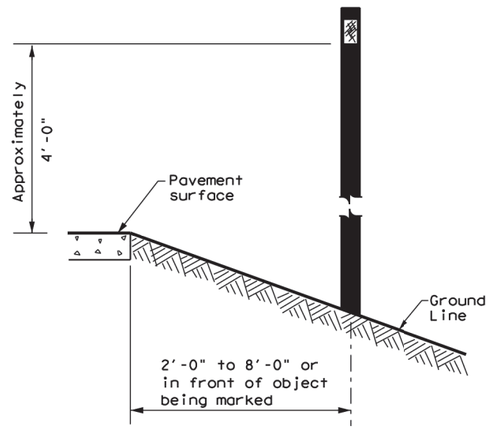
CHEVRONS AND ONE DIRECTION LARGE ARROW SIGN



NOTE

Chevrons 30" x 36" and larger shall be mounted at a height of 7' to the bottom of the chevron. Chevron sign and ONE DIRECTIONAL LARGE ARROW sign (W1-9T) shall be installed per SMD standard sheets and paid under item 644.

DELINEATORS AND TYPE 2 OBJECT MARKERS



See general notes 1, 2 and 3.

GENERAL NOTES

1. Place delineators on a section of roadway at a consistent distance from the edge of pavement.
2. Where a restriction prevents consistent placement from the pavement edge, place the affected object markers in line with the innermost edge of the obstruction.
3. When Type 2 object markers and delineators are more than 8'-0" from the edge of the pavement, it may not be possible to maintain a height of approximately 4'-0". If this is the case, place the object marker or delineator as close to the desired height as possible.
4. Install all delineators, object markers and barrier reflectors in accordance with the manufacturer's recommendation.
5. Barrier reflectors should be installed a minimum of 18 inches above the edge of the pavement surface.

Texas Department of Transportation

Traffic Operations Division Standard

DELINEATOR & OBJECT MARKER INSTALLATION

D & OM(2)-15

FILE: dom2-15.dgn	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
© TxDOT August 2004	CONT	SECT	JOB	HIGHWAY
REVISIONS				
10-09 3-15	DIST	COUNTY		SHEET NO.
4-10				171

10/10/2017 6:54 AM
Williamson County, Texas
Bid 1710-194
DATE:
FILE:

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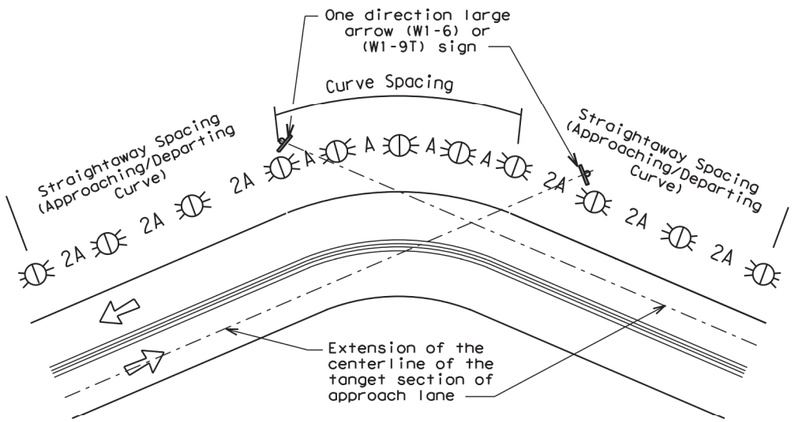
USE OF WARNING DEVICES AT CURVES WITH ADVISORY SPEED LIMITS

Amount by which Advisory Speed Is less than Posted Speed	Warning Devices Needed
5 MPH & 10 MPH	RPMs
15 MPH & 20 MPH	RPMs, and Delineators or RPMs and ONE DIRECTION LARGE ARROW (W1-6) or (W1-9T) sign
25 MPH & Greater	RPMs and Chevrons

SUGGESTED SPACING FOR DELINEATORS ON HORIZONTAL CURVES

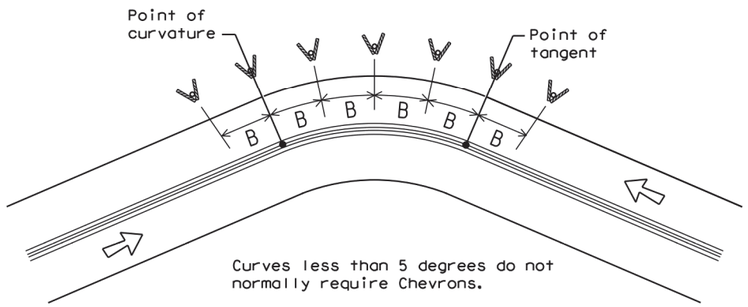


Curves less than 1 degree do not normally require delineators.

NOTE

ONE DIRECTIONAL LARGE ARROW (W1-6) or(W1-9T) sign should be located at approximately and perpendicular to the extension of the centerline of the tangent section of approach lane.

SUGGESTED SPACING FOR CHEVRONS ON HORIZONTAL CURVES



Curves less than 5 degrees do not normally require Chevrons.

DELINEATOR AND CHEVRON SPACING

WHEN DEGREE OF CURVE OR RADIUS IS KNOWN

Degree of Curve	FEET Radius of Curve	Spacing in Curve	Spacing in Straightaway	Chevron Spacing in Curve
		A	2A	B
1	5730	225	450	——
2	2865	160	320	——
3	1910	130	260	200
4	1433	110	220	160
5	1146	100	200	160
6	955	90	180	160
7	819	85	170	160
8	716	75	150	160
9	637	75	150	120
10	573	70	140	120
11	521	65	130	120
12	478	60	120	120
13	441	60	120	120
14	409	55	110	80
15	382	55	110	80
16	358	55	110	80
19	302	50	100	80
23	249	40	80	80
29	198	35	70	40
38	151	30	60	40
57	101	20	40	40

Curve delineator approach and departure spacing should include 3 delineators spaced at 2A. This spacing should be used during design preparation or when the degree of curve is known.

DELINEATOR AND CHEVRON SPACING

WHEN DEGREE OF CURVE OR RADIUS IS NOT KNOWN

Advisory Speed (MPH)	Spacing in Curve	Spacing in Straightaway	Chevron Spacing in Curve
	A	2xA	B
65	130	260	200
60	110	220	160
55	100	200	160
50	85	170	160
45	75	150	120
40	70	140	120
35	60	120	120
30	55	110	80
25	50	100	80
20	40	80	80
15	35	70	40

If the degree of curve is not known, delineator spacing may be determined based on the Advisory Speed of the curve. Use the delineator curve spacing for each Advisory Speed (MPH).

DELINEATOR AND OBJECT MARKER APPLICATION AND SPACING

CONDITION	REQUIRED TREATMENT	MINIMUM SPACING
Frwy./Exp. Tangent	RPMs	See PM-series and FPM-series standard sheets
Frwy./Exp. Curve[1]	Single delineators on right side	See delineator spacing table
FRWY/EXP. Ramp	Single delineators on at least one side of ramp (should be on outside of curves) (see Detail 4 on D&OM(4))	100 feet on ramp tangents. Use delineator spacing table for ramp curves ("straightway spacing" does not apply to ramp curves).
Acceleration/Deceleration Lane	Double delineators (see Detail 4 on D&OM(4))	100 feet (See Detail 4 on D & OM (4))
Truck Escape Ramp	Single red delineators on both sides	50 feet
Bridge Rail (steel or concrete)and Metal Beam Guard Fence or CTB	Bi-Directional Delineators when undivided with one lane each direction Single Delineators when multiple lanes each direction	Equal spacing (100'max) but not less than 3 delineators
Guard Rail Terminus/Impact Head	Divided highway - Object marker on approach end. Undivided 2-lane highways - Object marker on approach and departure end.	Requires Type 3 Object Marker or reflective sheeting provided by manufacturer per D & OM(VIA).
Bridges with no Approach Rail	Type 3 Object Marker at end of rail and 3 single delineators approaching rail.	See Detail 2 on D & OM(4)
Reduced Width Approaches to Bridge Rail	Type 2 Object Markers and 3 single delineators approaching bridge.	See Detail 1 on D & OM(4)
Culverts without MBGF	Type 2 Object Markers	See Detail 3 on D & OM(4)
Crossovers	Double yellow delineators or RPM's	See Detail 5 on D & OM (4)
Pavement Narrowing (lane merge) on Freeways/Expressway	Single delineators adjacent to affected lane for full length of transition	100 feet

NOTES

1. Delineators not required in urban areas with continuous illumination.
2. Unless indicated otherwise, the delineator or barrier reflector color shall conform to the color of the pavement edge line on the side of the road where the delineators or barrier reflectors are placed.
3. Barrier reflectors may be used to replace required delineators.
4. Single red delineators may be mounted on the back side of delineator posts for wrong way driver applications

LEGEND	
	Bi-directional Delineator
	Delineator
	Sign

SHEET 172 OF 273

Texas Department of Transportation

Traffic Operations Division Standard

DELINEATOR & OBJECT MARKER PLACEMENT DETAILS

D & OM(3)-15B

FILE: dom3-15b.dgn	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
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REVISIONS				
3-15	DIST	COUNTY		SHEET NO.
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DATE:
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Williamson County, Texas

10/10/2017 6:54 AM

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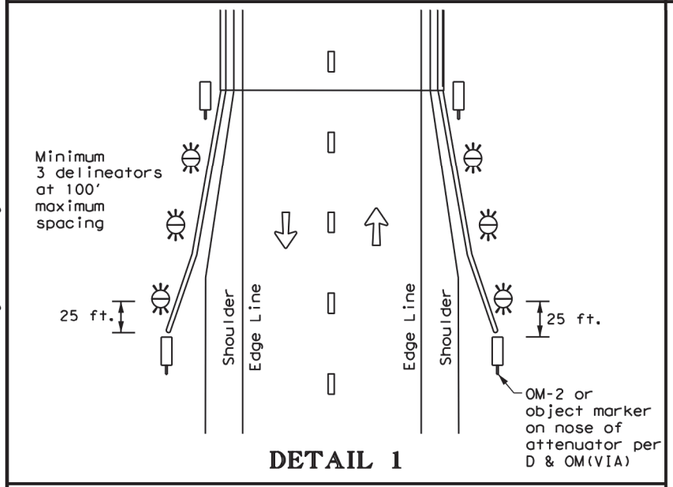
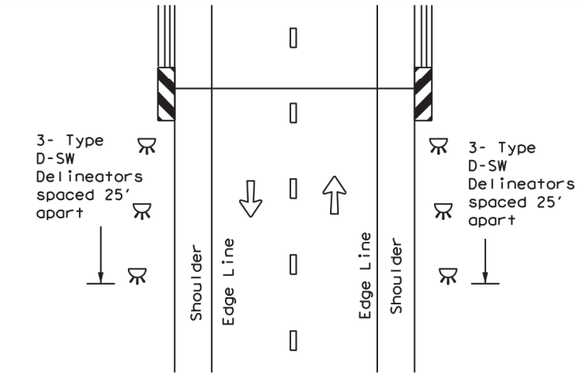
TWO-WAY, TWO LANE ROADWAY WITH REDUCED WIDTH APPROACH



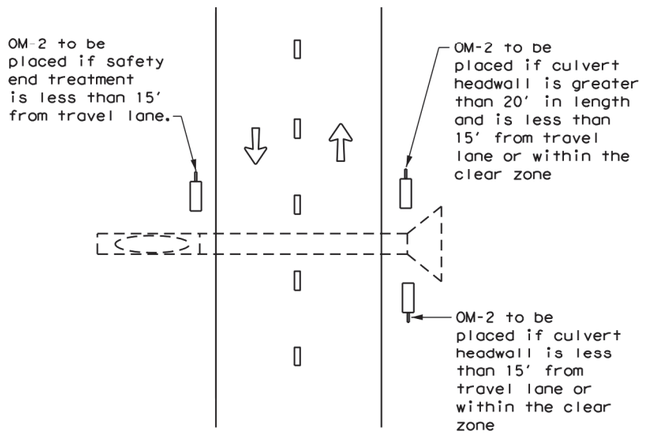
DETAIL 1

TWO-WAY, TWO LANE ROADWAY BRIDGE WITH NO APPROACH RAIL



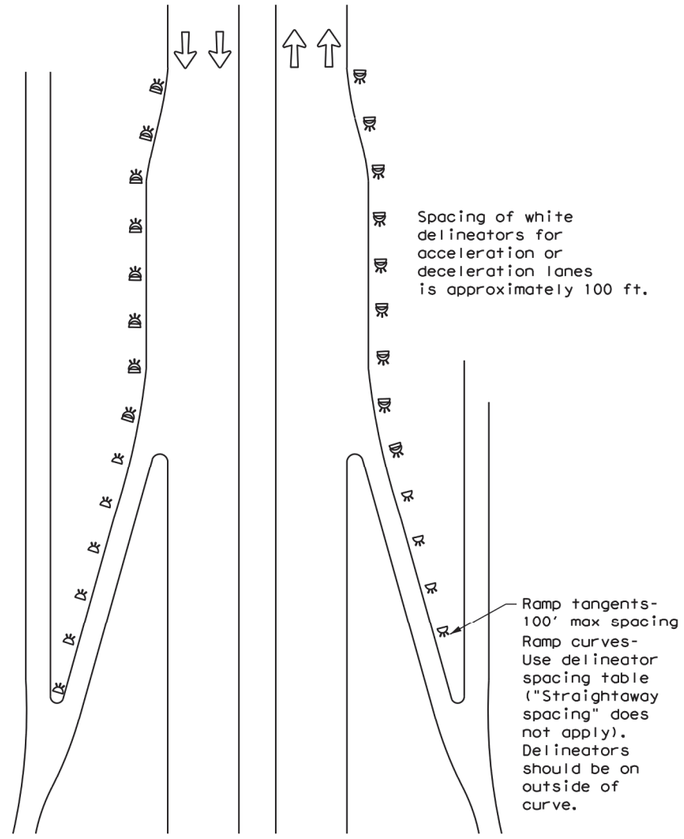
DETAIL 2

FOR CULVERTS WITHOUT MBGF



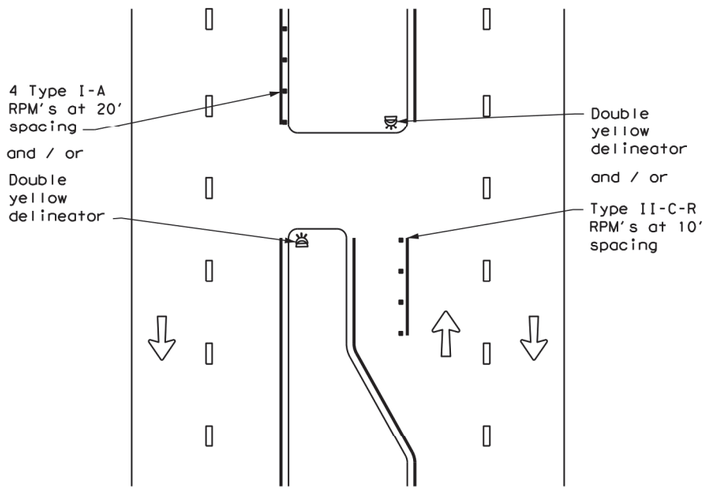
DETAIL 3

FREEWAY DELINEATION FOR RAMPS AND ACCELERATION/DECELERATION LANES



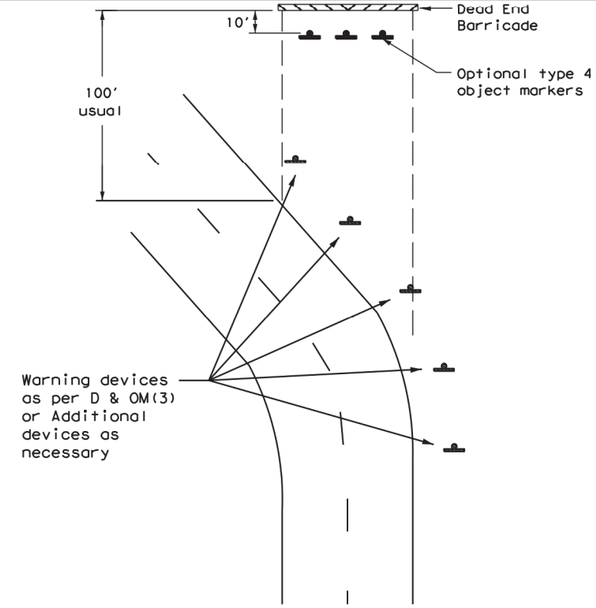
DETAIL 4

CROSSOVERS



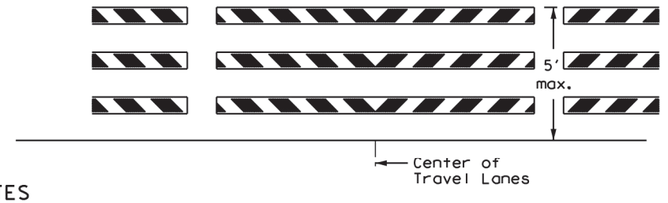
DETAIL 5

TYPICAL APPLICATION OF DEAD END BARRICADE



DETAIL 6

TYPICAL DEAD END BARRICADE INSTALLATION



NOTES

1. Barricade striping shall be red and white reflective sheeting for all permanent road closures.
2. Barricade striping is red and white sloping toward the center of the roadway.
3. Type 3 Barricade Supports should be anchored to soil or pavement as described in compliant Work Zone Traffic Control Devices List, section D.2.f and D.2.g.

DETAIL 7

LEGEND	
	Bidirectional Delineator
	Delineator
	OM-3
	Barricade
	Sign
	OM-2
	Double Delineator

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Texas Department of Transportation

Traffic Operations Division Standard

DELINEATOR & OBJECT MARKER PLACEMENT DETAILS

D & OM(4)-15

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				173

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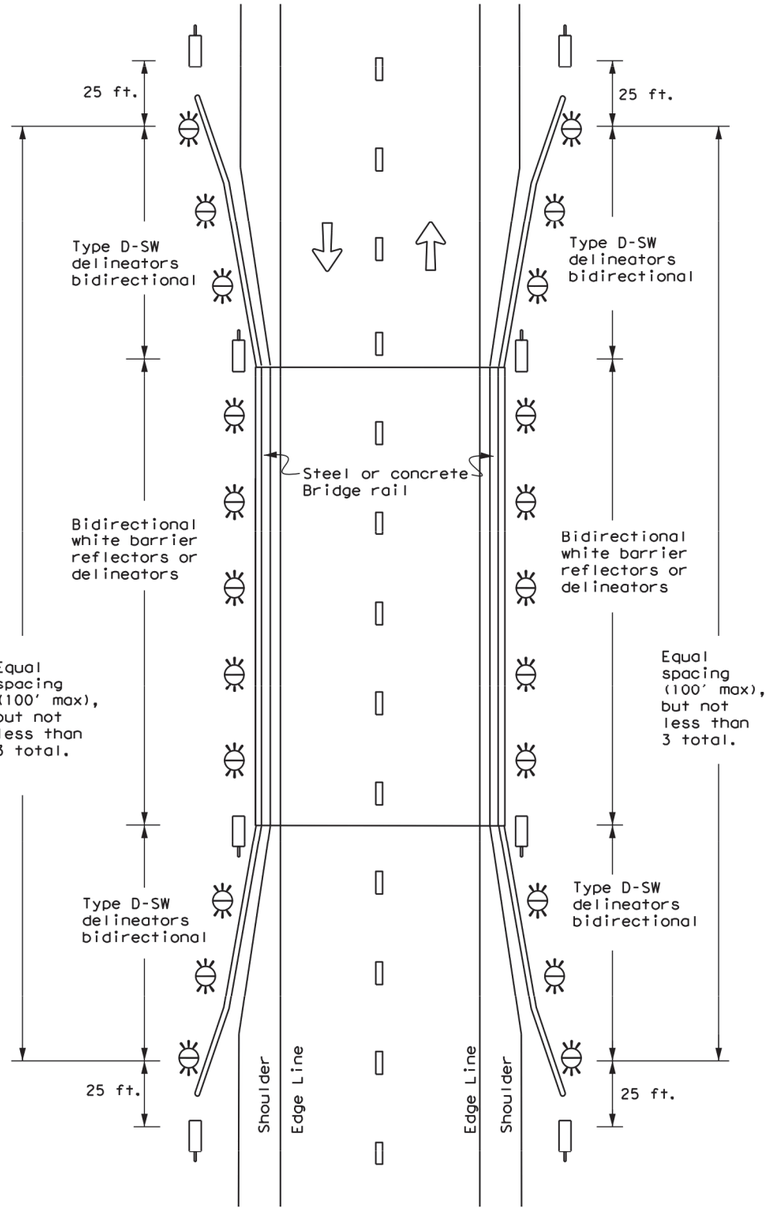
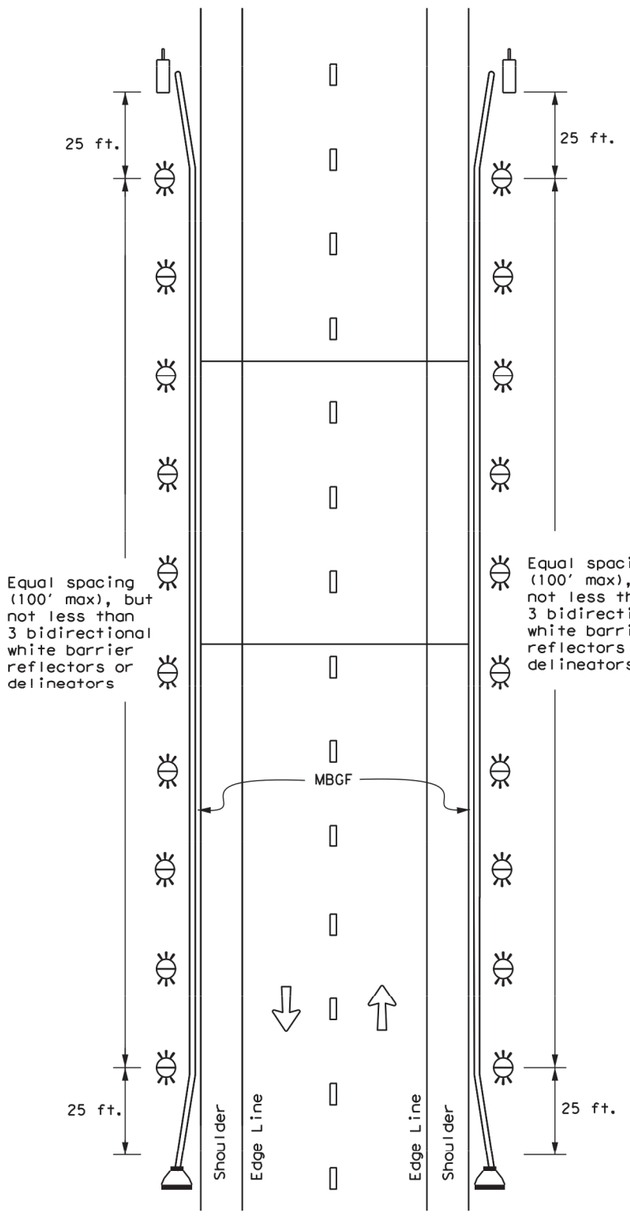
TWO-WAY, TWO LANE ROADWAY WITH REDUCED WIDTH APPROACH RAIL



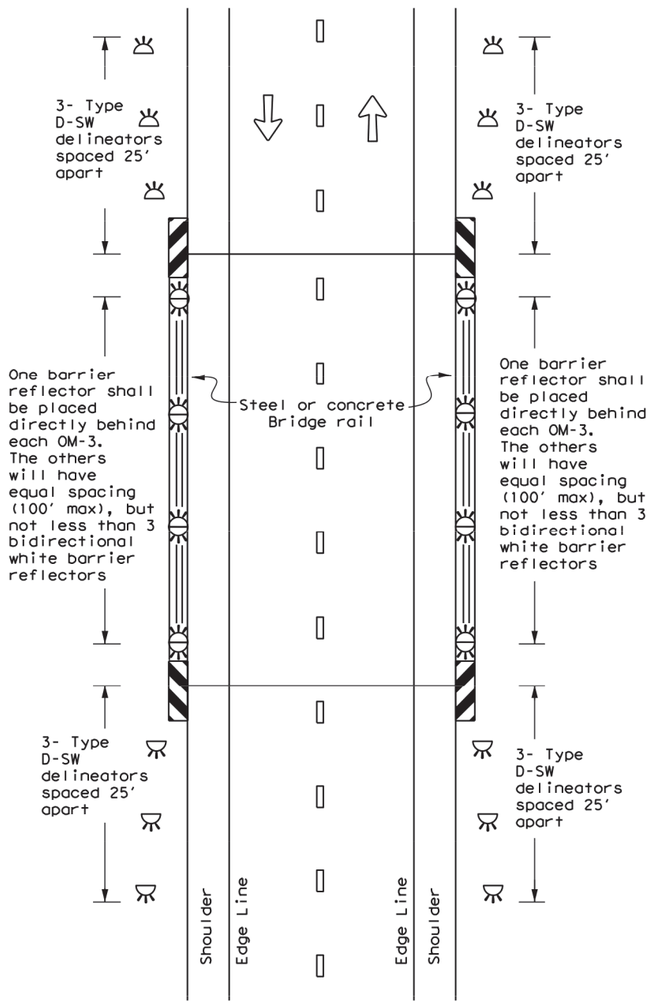
TWO-WAY, TWO LANE ROADWAY WITH METAL BEAM GUARD FENCE (MBGF)



NOTE:

If terminal ends include an object marker, there is no need to install an OM-2 in front of terminal.

TWO-WAY, TWO LANE ROADWAY BRIDGE WITH NO APPROACH RAIL



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LEGEND

	Bidirectional Delineator
	Delineator
	OM-3
	OM-2
	Terminal End
	TRAFFIC FLOW

Texas Department of Transportation

Traffic Operations Division Standard

DELINEATOR & OBJECT MARKER PLACEMENT DETAILS

D & OM(5)-15

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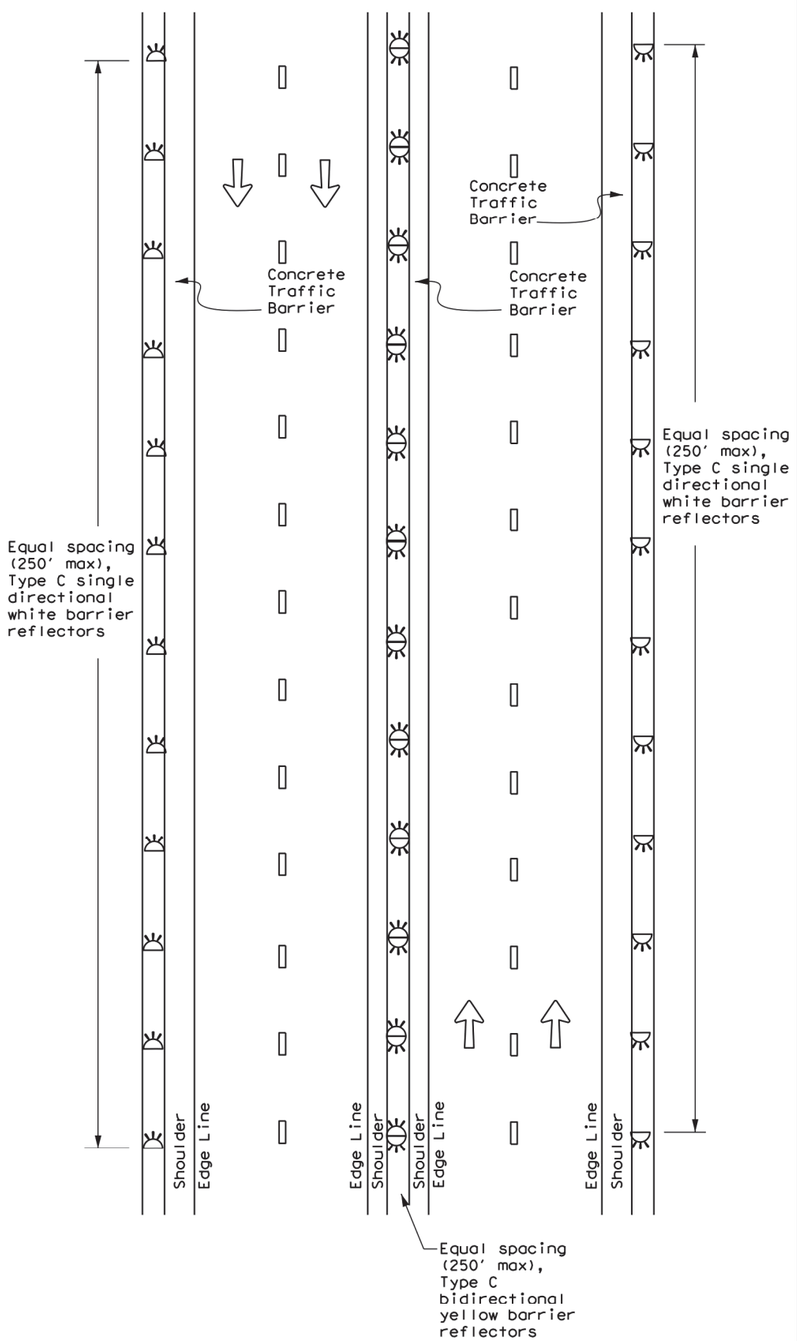
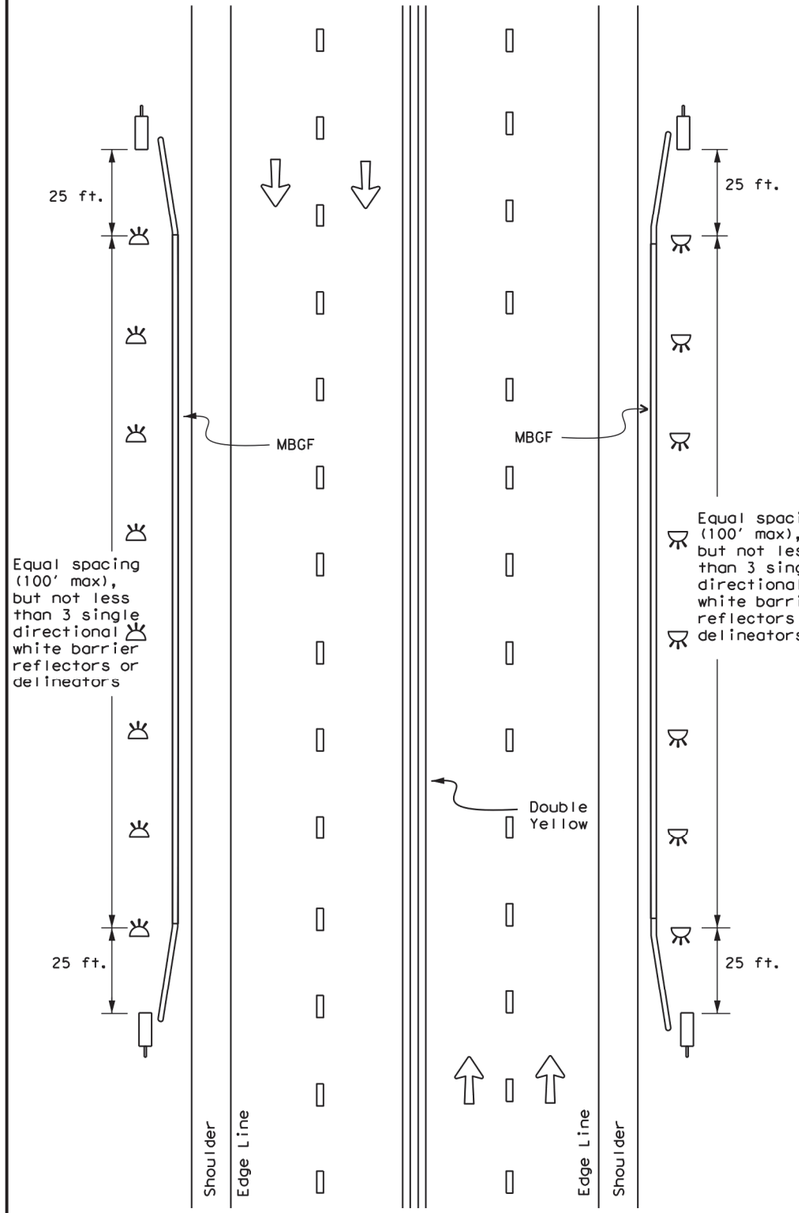
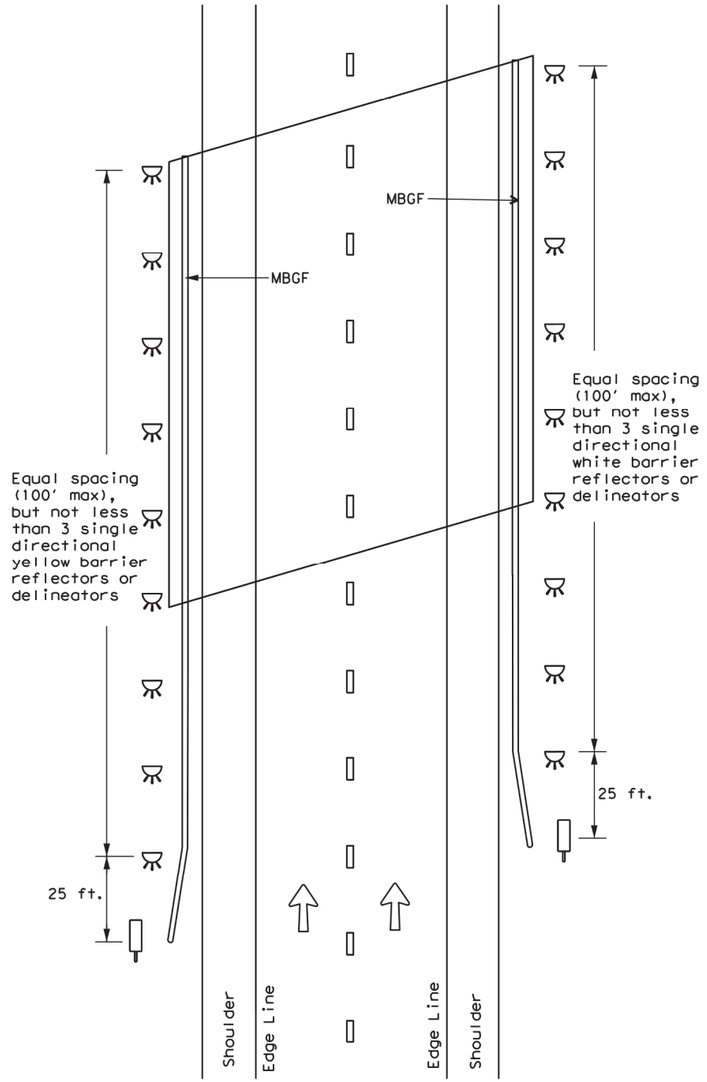
CONTINUOUS CONCRETE BARRIER



MULTI-LANE UNDIVIDED, TWO-WAY ROADWAY WITH METAL BEAM FENCE (MBGF)



DIVIDED ROADWAY WITH METAL BEAM GUARD FENCE



SHEET 175 OF 273

LEGEND

	Bidirectional Delineator
	Delineator
	OM-3
	OM-2
	Terminal End
	TRAFFIC FLOW

Texas Department of Transportation

Traffic Operations Division Standard

DELINEATOR & OBJECT MARKER PLACEMENT DETAILS

D & OM(6)-15

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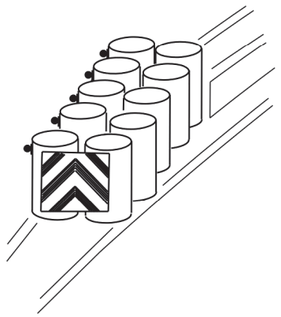
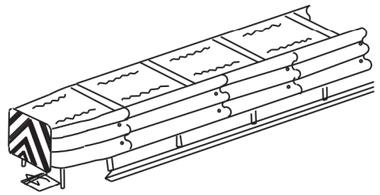
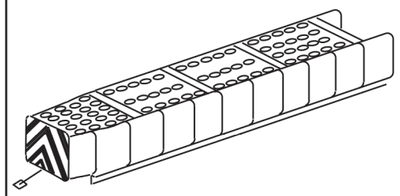
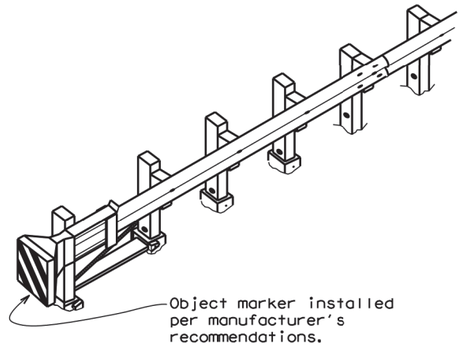
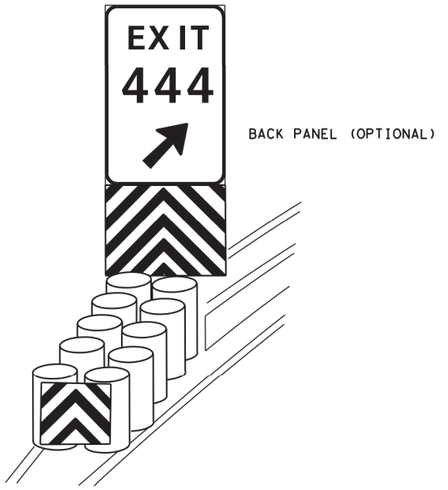
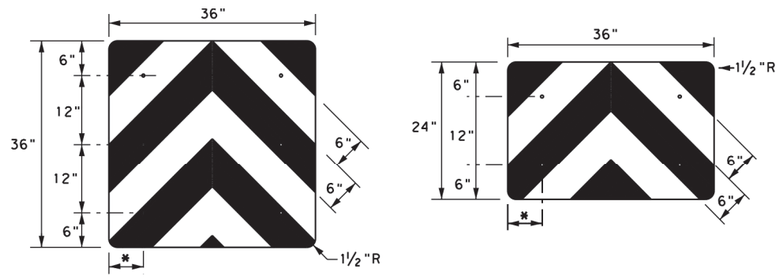




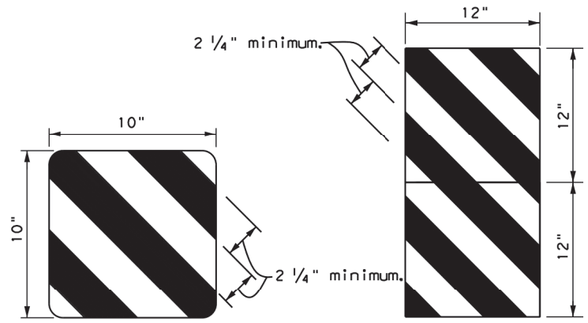




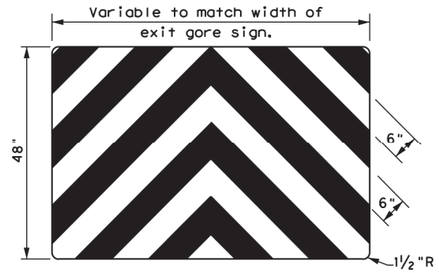


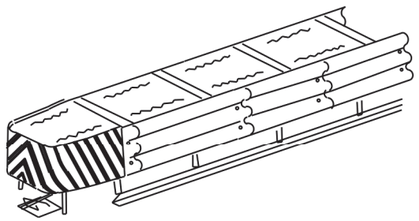


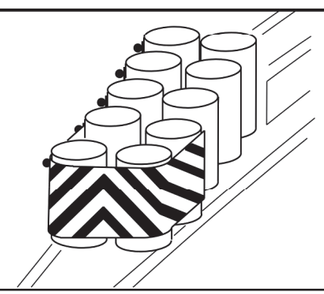
* Adjust to fit attenuator per manufacturer's recommendation, or as directed by the Engineer

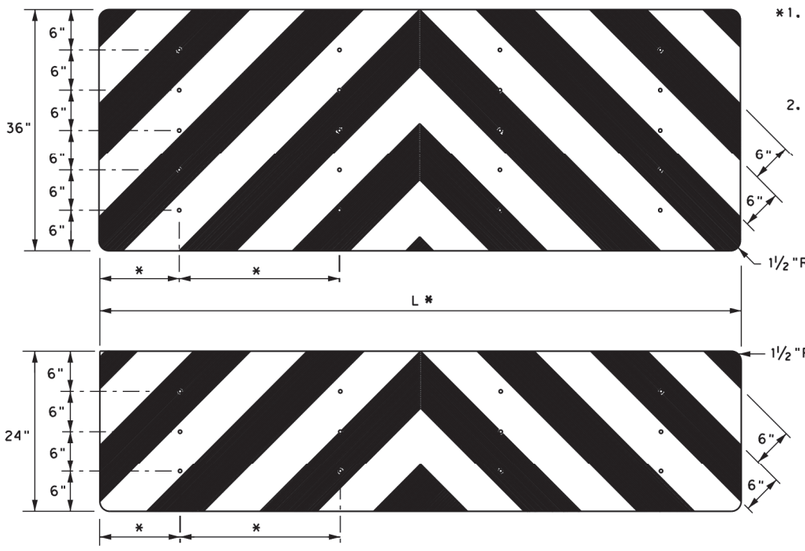


OBJECT MARKERS SMALLER THAN 3 FT^2









NOTES

*1. Spacing should be adjusted to attach through centerline of drum, per attenuator manufacturers recommendation, or as directed by the Engineer.

2. Mounting should be flush with top of attenuator. Minimum size 96" x 24".

NOTES

1. Object Markers shall conform to the Texas MUTCD and meet the color and reflectivity requirement of Department Material Specification DMS 8300. Background shall be yellow reflective sheeting (Type B or C) and Chevron shall be black.
2. Object Markers may be fabricated from adhesive backed reflective sheeting applied directly to guardrail end treatment, or applied directly to an "end cap" as per the manufacturer's recommendation. Direct applied sheeting shall provide a smooth surface and have no wrinkles, air bubbles, cuts or tears. A radius at the corners is not required for direct applied sheeting.
3. Object Marker size may be reduced to fit smaller devices. Width of alternating black and yellow stripes are typically 6". Object Markers smaller than 3ft may have reduced width stripes of a minimum of 2 ¼".
4. Pop rivets, screws, or nuts and bolts may be used to attach object markers and reflectors. Holes, slots or other openings may be cut or drilled through object markers to allow cable or other attachments.
5. Object Marker at nose of attenuator is subsidiary to the attenuator.
6. See D & OM (1-4) for required barrier reflectors.

Texas Department of Transportation

Traffic Operations Division Standard

DELINEATOR & OBJECT MARKER FOR VEHICLE IMPACT ATTENUATORS

D & OM(VIA)-15

FILE: domvia15.dgn	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
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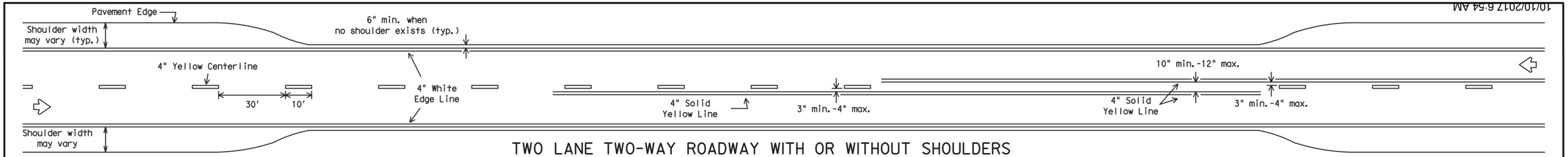
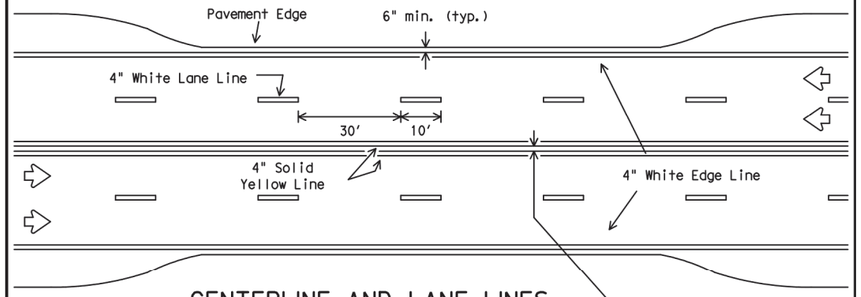
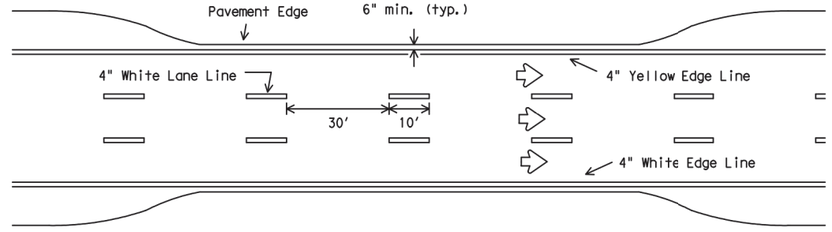


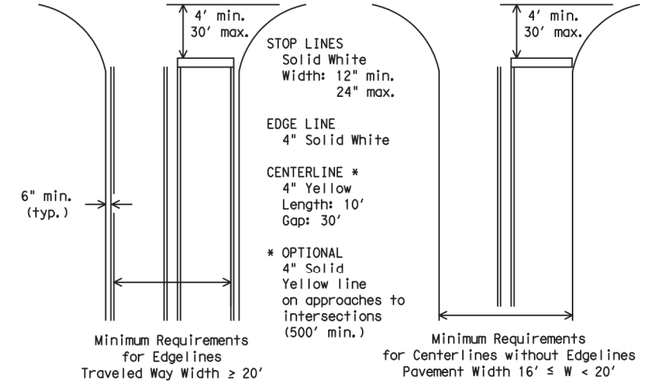
TWO LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS



CENTERLINE AND LANE LINES FOUR LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS

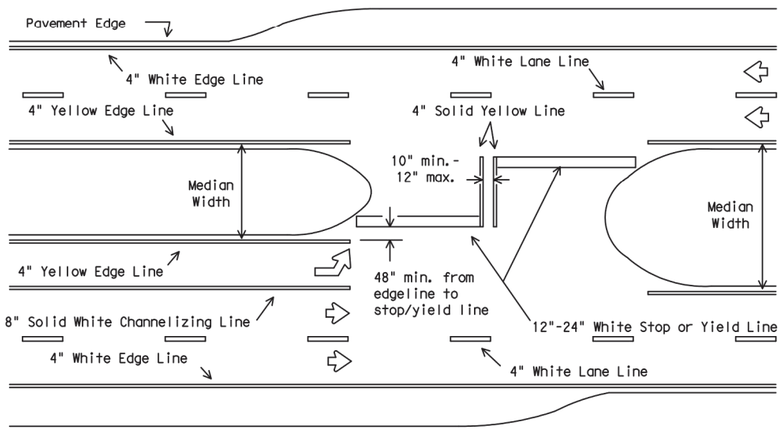


EDGE LINE AND LANE LINES ONE-WAY ROADWAY WITH OR WITHOUT SHOULDERS



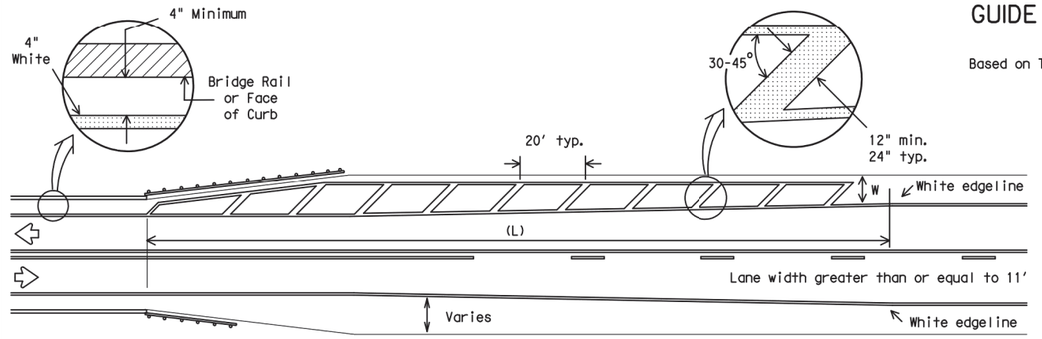
GUIDE FOR PLACEMENT OF STOP LINES, EDGE LINE & CENTERLINE

Based on Traveled Way and Pavement Widths for Undivided Highways



All medians shall be field measured to determine the location of necessary striping. Stop/Yield bars and centerlines shall be placed when the median width is greater than 30 ft. The median width is defined as the area between two roadways of a divided highway measured from edge of traveled way to edge of traveled way. The median excludes turn lanes. The median width might be different between intersections, interchanges and of opposite approaches of the same intersection. The narrow median width will be the controlling width to determine if markings are required.

FOUR LANE DIVIDED ROADWAY INTERSECTIONS



NOTES:

1. No-passing zone on bridge approach is optional but if used, it shall be a minimum 500 feet long.
2. For crosshatching length (L) see Table 1.
3. The width of the offset (W) and the required crosshatching width is the full shoulder width in advance of the bridge.
4. The crosshatching is not required if delineators or barrier reflectors are used along the structure.
5. For guard fence details, refer elsewhere in the plans.

ROADWAYS WITH REDUCED SHOULDER WIDTHS ACROSS BRIDGE OR CULVERT

TABLE 1 - TYPICAL LENGTH (L)

Posted Speed *	Formula
≤ 40	$L = \frac{WS^2}{60}$
≥ 45	L=WS

* 85th Percentile Speed may be used on roads where traffic speeds normally exceed the posted speed limit. Crosshatching length should be rounded up to nearest 5 foot increment.

L=Length of Crosshatching (FT.) W=Width of Offset (FT.)
S=Posted Speed (MPH)

EXAMPLES:

An 8 foot shoulder in advance of a bridge reduces to 4 feet on a 70 MPH roadway. The length of the crosshatching should be:

$L = 8 \times 70 = 560$ ft.

A 4 foot shoulder in advance of a bridge reduces to 2 feet on a 40 MPH roadway. The length of the crosshatching should be:

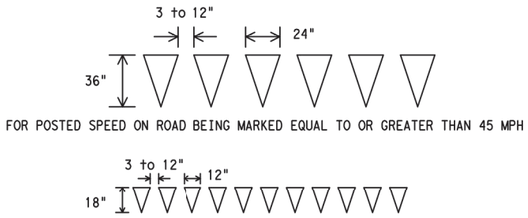
$L = 4(40)^2 / 60 = 106.67$ ft. rounded to 110 ft.

GENERAL NOTES

1. Edgeline striping shall be as shown in the plans or as directed by the Engineer. The edgeline should typically be placed a minimum of 6 inches from the edge of pavement. This distance may vary due to pavement raveling or other conditions. Edgelines are not required in curb and gutter sections of roadways.
2. The traveled way includes only that portion of the roadway used for vehicular travel and not the parking lanes, sidewalks, berms and shoulders. The traveled ways shall be measured from the inside of edgeline to inside of edgeline of a two lane roadway.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



YIELD LINES

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Texas Department of Transportation
Traffic Operations Division

TYPICAL STANDARD PAVEMENT MARKINGS

PM(1)-12

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8-00
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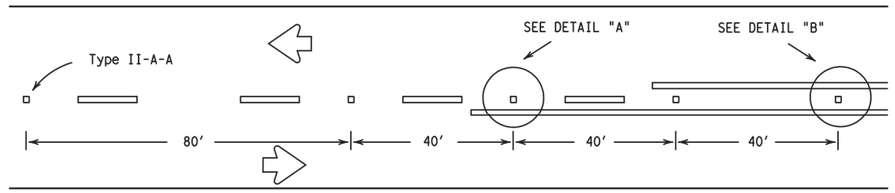
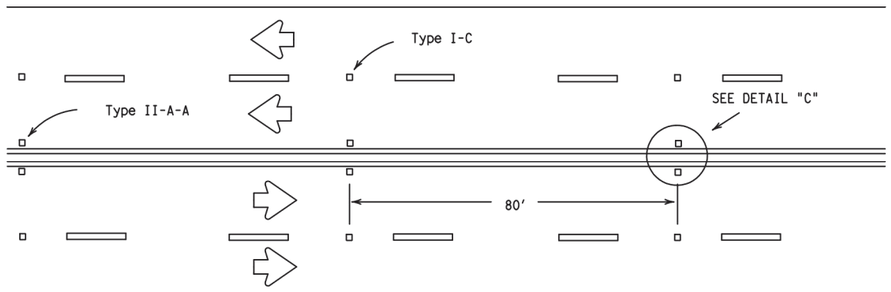
REFLECTIVE RAISED PAVEMENT MARKERS FOR VEHICLE POSITIONING GUIDANCE

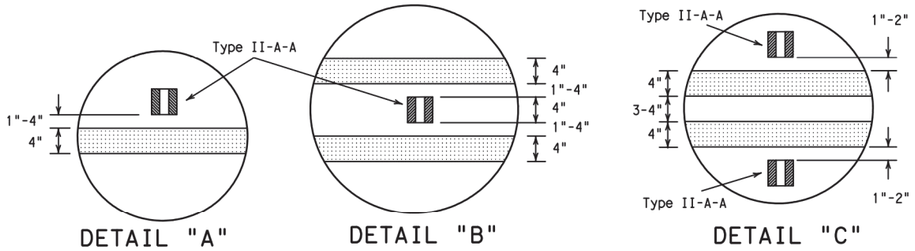


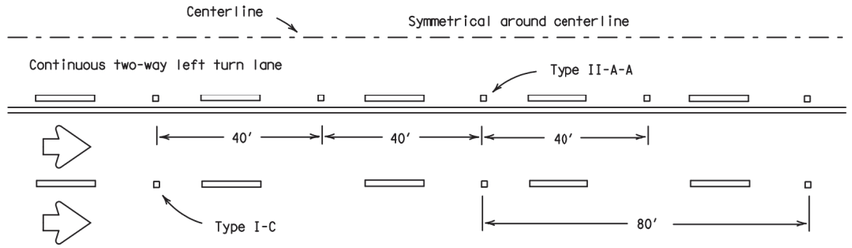
CENTERLINE FOR ALL TWO LANE ROADWAYS



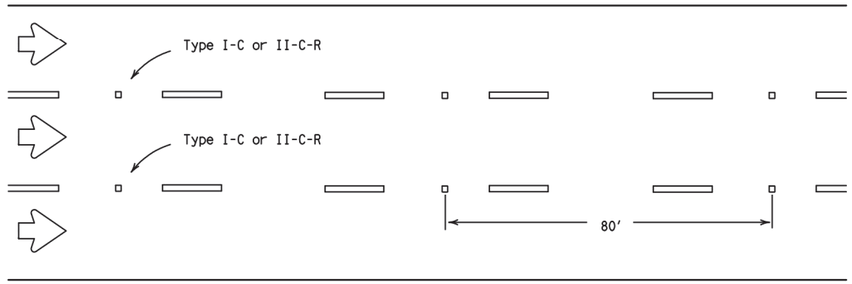
CENTERLINE & LANE LINES
FOR FOUR LANE TWO-WAY HIGHWAYS

Raised pavement marker Type I-C, clear face toward normal traffic, shall be placed on 80-foot centers.



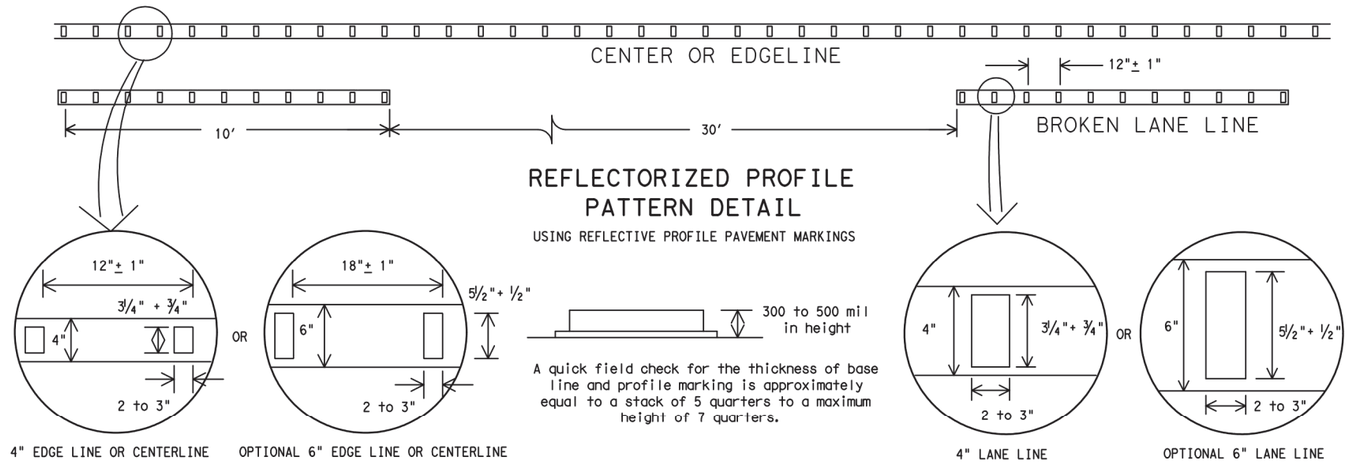


CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE



LANE LINES FOR ONE-WAY ROADWAY (NON-FREEWAY FACILITIES)

Raised pavement markers Type II-C-R shall have clear face toward normal traffic and red face toward wrong-way traffic.



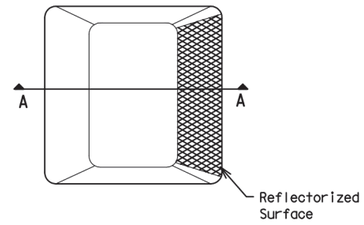
NOTE:
Profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.

GENERAL NOTES

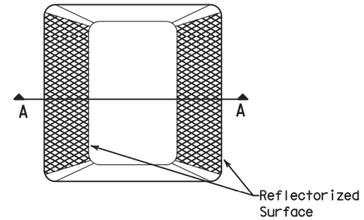
1. All raised pavement markers placed in broken lines shall be placed in line with and midway between the stripes.
2. On concrete pavements the raised pavement markers should be placed to one side of the longitudinal joints.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

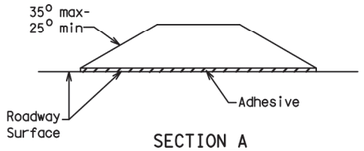
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



Type I (Top View)



Type II (Top View)



SECTION A

RAISED PAVEMENT MARKERS

Texas Department of Transportation
Traffic Operations Division

POSITION GUIDANCE USING RAISED MARKERS
REFLECTORIZED PROFILE MARKINGS
PM(2)-12

© TxDOT April 1977

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
CONT	SECT	JOB	HIGHWAY
DIST	COUNTY		SHEET NO.
			178

REVISIONS
4-92 2-10
5-00 2-12
8-00
2-08

22B

DATE:
FILE: pm1710-194

Williamson County, Texas

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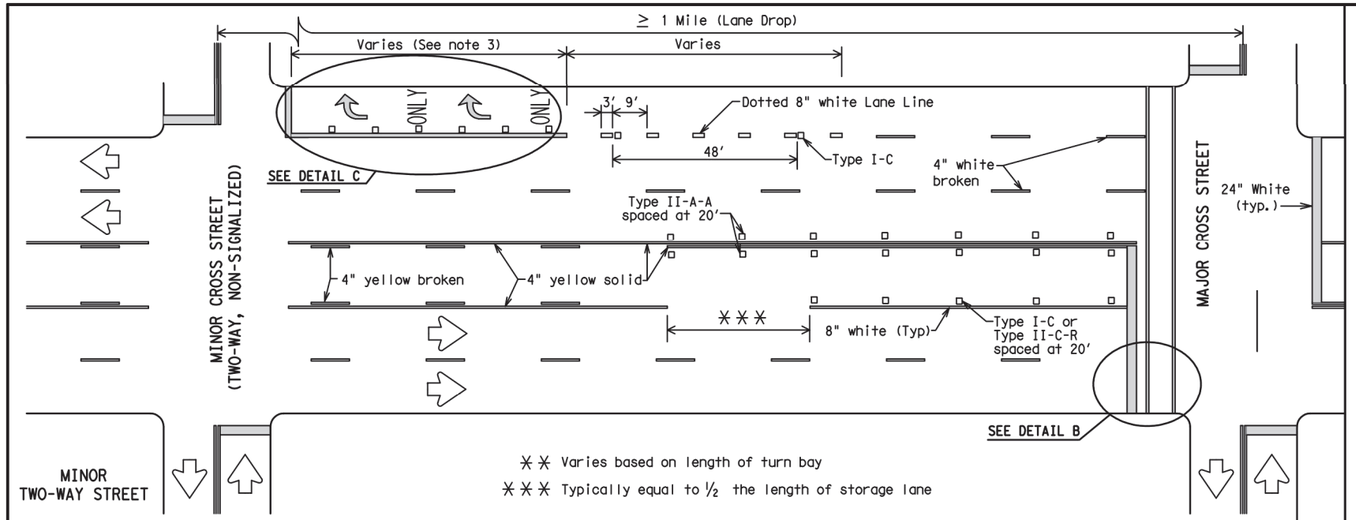
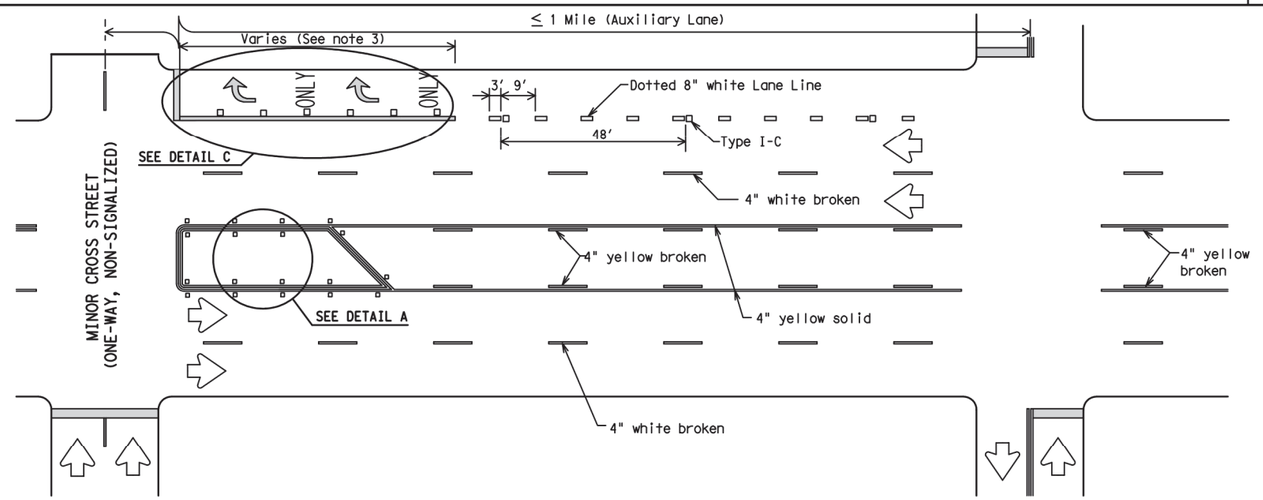
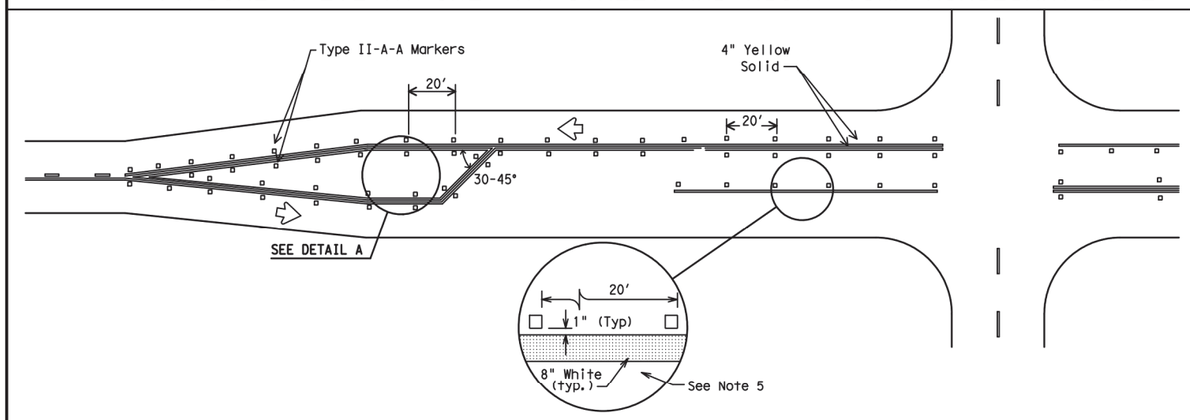


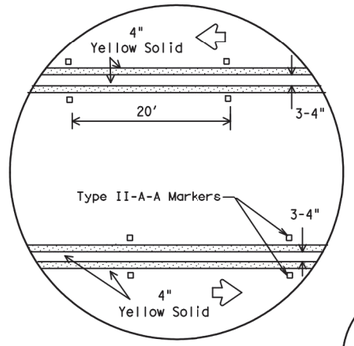
TYPICAL TWLTL AT TWO-WAY CROSS STREET AND RIGHT TURN LANE DROP



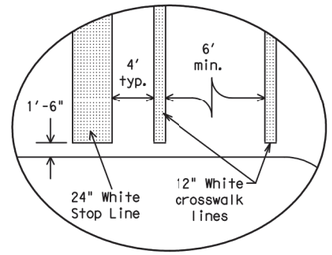
TYPICAL TWLTL AT ONE-WAY STREET AND RIGHT TURN AUXILIARY LANE



TYPICAL TWO-LANE HIGHWAY INTERSECTION WITH LEFT TURN BAYS



DETAIL A

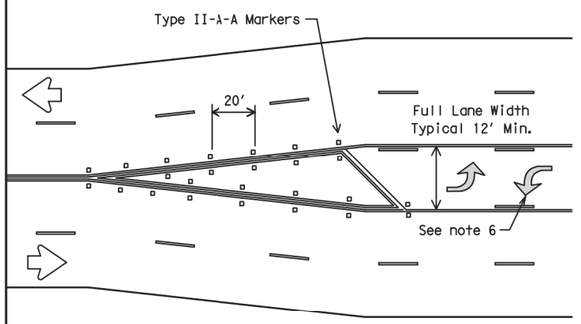


Final placement of Stop Bar and Crosswalk shall be approved by the Engineer in the field.

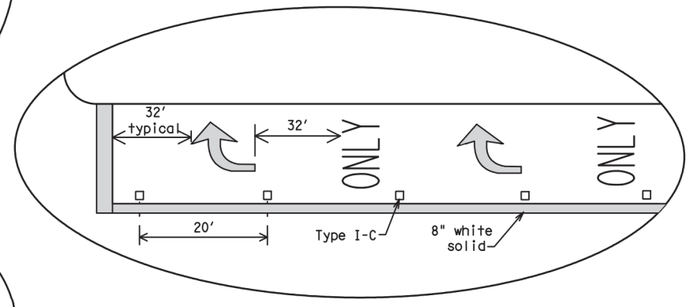
DETAIL B

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



TYPICAL TRANSITION FOR TWLTL AND DIVIDED HIGHWAY



DETAIL C

SHEET 179 OF 273

GENERAL NOTES

1. Refer elsewhere in plans for additional RPM placement and details.
2. Lane use word and arrow markings shall be used where through lanes approaching an intersection become mandatory turn lanes. Lane use word and arrow markings should be used in auxiliary lanes of substantial length. Lane use arrow markings or word and arrow markings may be used in other lanes and turn bays for emphasis. Details for words and arrows as shown in the Standard Highway Sign Designs for Texas.
3. When lane used word and arrow markings are used, two sets of arrows should be used if the length of the bay is greater than 180 feet. When a single lane use arrow or word and arrow marking is used for a short turn lane, it should be located at or near the upstream end of the full-width turn lane.
4. Other crosswalk paterns as shown in the "Texas Manual on Uniform Traffic Control Devices" may be used.
5. Raised pavement marker Type I-C with undivided highways, flush medians and two way left turn lanes. Raised pavement marker Type II-C-R with divided highways and raised medians.
6. A two-way left-turn (TWLT) lane-use arrow pavement marking should be used at or just downstream from the beginning of a two-way left-turn lane within a corridor. Repeating the marking after each intersection or dedicated turn bay is not required unless stated elsewhere in the plans.

Texas Department of Transportation
Traffic Operations Division

PAVEMENT MARKINGS FOR TWO-WAY LEFT TURN LANES DIVIDED HIGHWAYS AND RURAL LEFT TURN BAYS

PM(3)-12

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DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
CONT	SECT	JOB	HIGHWAY
DIST	COUNTY		SHEET NO.
			179

REVISIONS
5-00 2-12
8-00
3-03
2-10

22C

DATE:
FILE: pm1710-194

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SIGN SUPPORT DESCRIPTIVE CODES

(Descriptive Codes correspond to project estimate and quantities sheets)

SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX)

Post Type

FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))
TWT = Thin-Walled Tubing (see SMD(TWT))
10BWG = 10 BWG Tubing (see SMD(SLIP-1) to (SLIP-3))
S80 = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

Number of Posts (1 or 2)

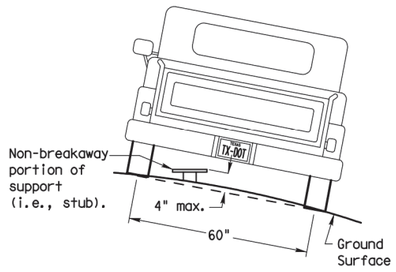
Anchor Type

UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT))
UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))
WS = Wedge Anchor Steel - (see SMD(TWT))
WP = Wedge Anchor Plastic (see SMD(TWT))
SA = Slipbase - Concreted (see SMD(SLIP-1) to (SLIP-3))
SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

Sign Mounting Designation

P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
T = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))
IF REQUIRED
1EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))
BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
WC = 1.12 #/ft Wing Channel (see SMD(SLIP-1) to (SLIP-3))
EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-1))

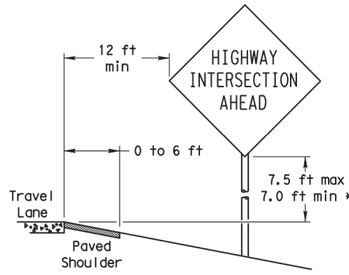
REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheel paths).

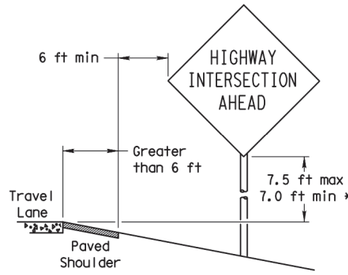
SIGN LOCATION

PAVED SHOULDERS



LESS THAN 6 FT. WIDE

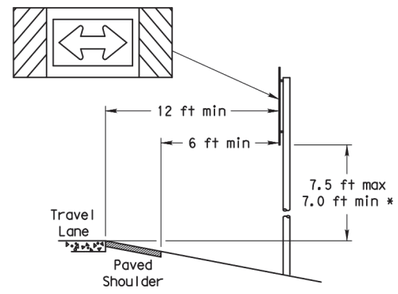
When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.



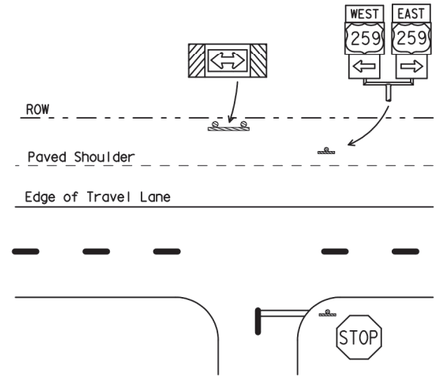
GREATER THAN 6 FT. WIDE

When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

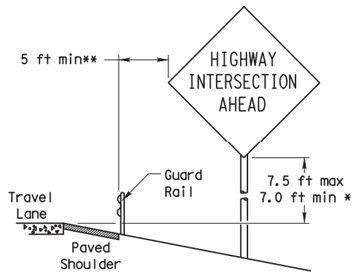
T-INTERSECTION



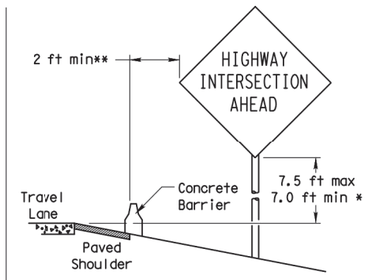
When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.



BEHIND BARRIER



BEHIND GUARDRAIL



BEHIND CONCRETE BARRIER

**Sign clearance based on distance required for proper guard rail or concrete barrier performance.

* Signs shall be mounted using the following condition that results in the greatest sign elevation:

(1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or

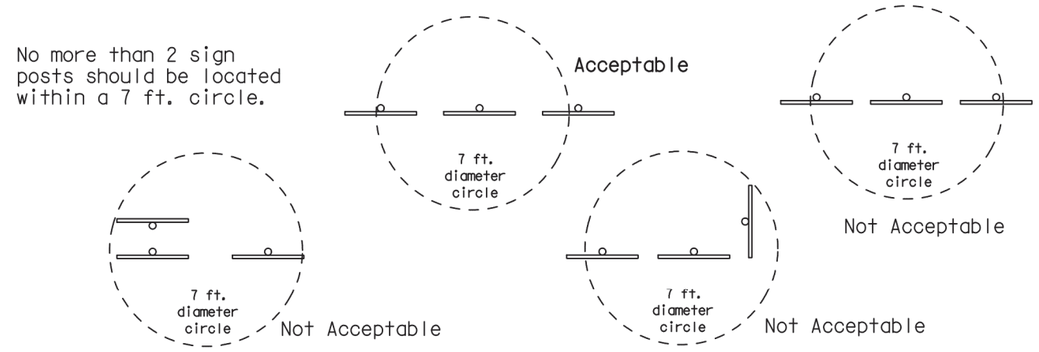
(2) a minimum of 7 to a maximum of 7.5 feet above the grade at the base of the support when sign is installed on the backslope.

The maximum values may be increased when directed by the Engineer.

See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.

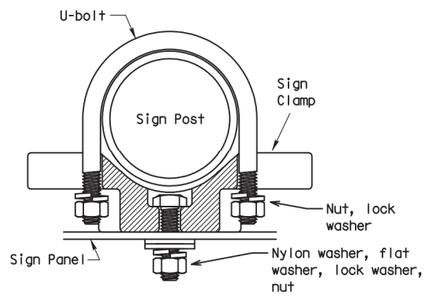
The website address is:
http://www.txdot.gov/publications/traffic.htm

No more than 2 sign posts should be located within a 7 ft. circle.

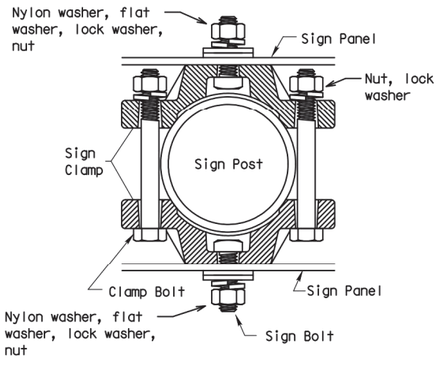


TYPICAL SIGN ATTACHMENT DETAIL

Single Signs



Back-to-Back Signs



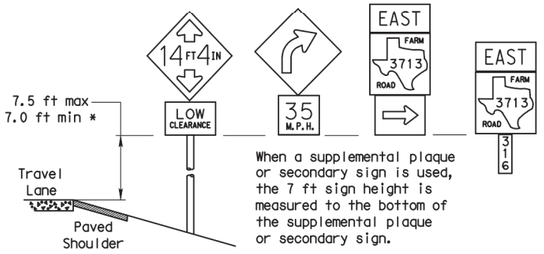
Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

Sign clamps may be either the specific size clamp or the universal clamp.

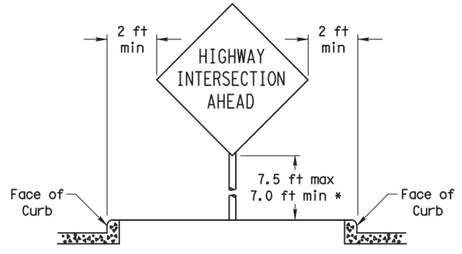
Pipe Diameter	Approximate Bolt Length	
	Specific Clamp	Universal Clamp
2" nominal	3"	3 or 3 1/2"
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

SIGNS WITH PLAQUES



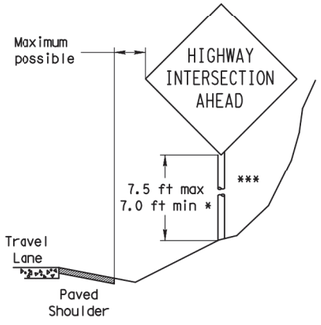
When a supplemental plaque or secondary sign is used, the 7 ft sign height is measured to the bottom of the supplemental plaque or secondary sign.

CURB & GUTTER OR RAISED ISLAND



RESTRICTED RIGHT-OF-WAY

(When 6 ft min. is not possible.)



Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

In situations where a lateral restriction prevents the minimum horizontal clearance from the edge of the travel lane, signs should be placed as far from the travel lane as practical.

*** Post may be shorter if protected by guardrail or if Engineer determines the post could not be hit due to extreme slope.

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD(GEN)-08

©TxDOT July 2002

9-08 REVISIONS	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
	COUNT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.
				180

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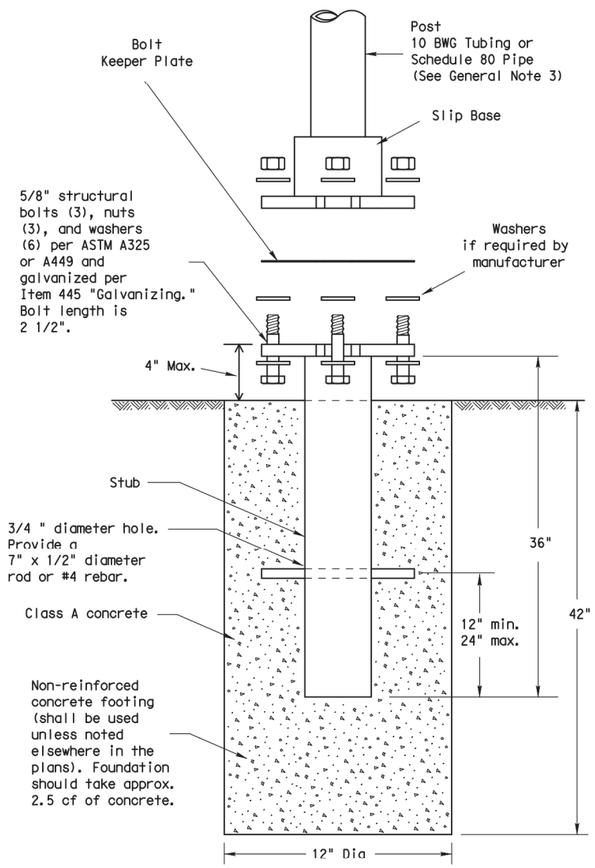
DATE:
FILE: Bc1710-194

TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



SM RD SGN ASSM TY XXXXX(X)SA(X-XXXX)

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. http://www.txdot.gov/business/producer_list.htm The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:

1. Slip base shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
2. Material used as post with this system shall conform to the following specifications:
   10 BWG Tubing (2.875" outside diameter)
   - 0.134" nominal wall thickness
   - Seamless or electric-resistance welded steel tubing or pipe
   - Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM A1008
   - Other steels may be used if they meet the following:
     - 55,000 PSI minimum yield strength
     - 70,000 PSI minimum tensile strength
     - 20% minimum elongation in 2"
   - Wall thickness (uncoated) shall be within the range of 0.122" to 0.138"
   - Outside diameter (uncoated) shall be within the range of 2.867" to 2.883"
   - Galvanization per ASTM A123 or ASTM A653 G210. For precoated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833.

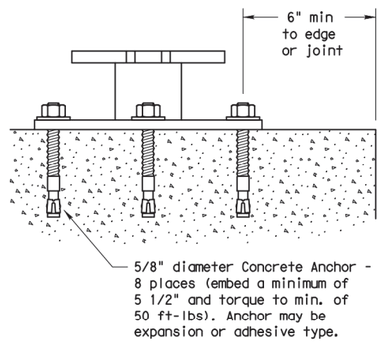
   Schedule 80 Pipe (2.875" outside diameter)
   - 0.276" nominal wall thickness
   - Steel tubing per ASTM A500 Gr C
   - Other seamless or electric-resistance welded steel tubing or pipe with equivalent outside diameter and wall thickness may be used if they meet the following:
     - 46,000 PSI minimum yield strength
     - 62,000 PSI minimum tensile strength
     - 21% minimum elongation in 2"
   - Wall thickness (uncoated) shall be within the range of 0.248" to 0.304"
   - Outside diameter (uncoated) shall be within the range of 2.855" to 2.895"
   - Galvanization per ASTM A123
3. See the Traffic Operations Division website for detailed drawings of sign clamps and Texas Universal Triangular Slipbase System components. The website address is: http://www.txdot.gov/publications/traffic.htm
4. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

ASSEMBLY PROCEDURE

Foundation
1. Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor-driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A.
3. Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure good contact between the concrete and stub. Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground.
4. Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
5. The triangular slipbase system is multidirectional and is designed to release when struck from any direction.

Support
1. Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the travelway (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the travelway. The cut shall be plumb and straight.
2. Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLIP-2) for clearances based on sign types.

CONCRETE ANCHOR



SM RD SGN ASSM TY XXXXX(X)SB(X-XXXX)

Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end. Heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stud bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 KSI, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-6100, "Epoxies and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normal-weight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-1)-08

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	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
9-08 REVISIONS	COUNT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.
				181

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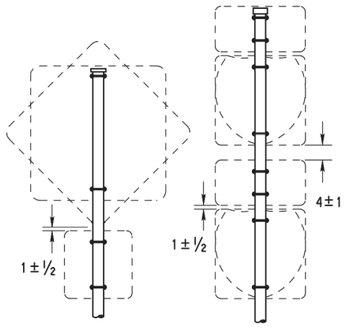
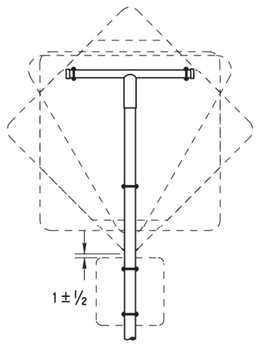


SM RD SGN ASSM TY XXXXX(1)XX(P)



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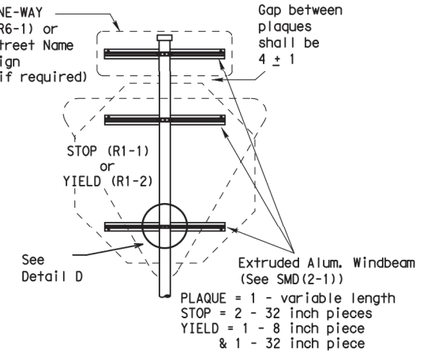
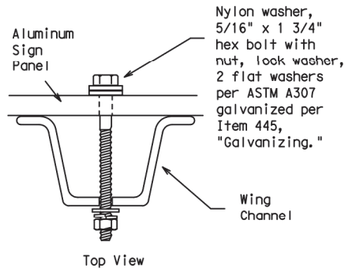
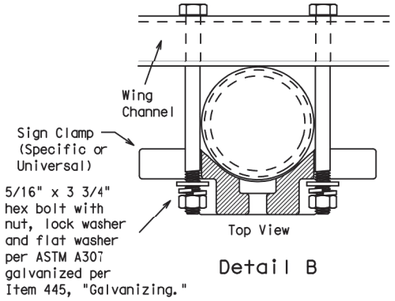


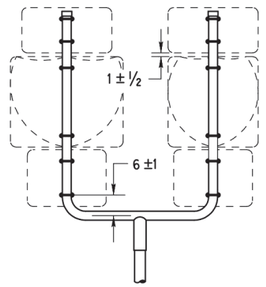
SM RD SGN ASSM TY XXXXX(1)XX(P-BM)



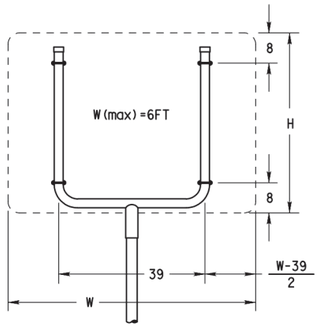
Detail A



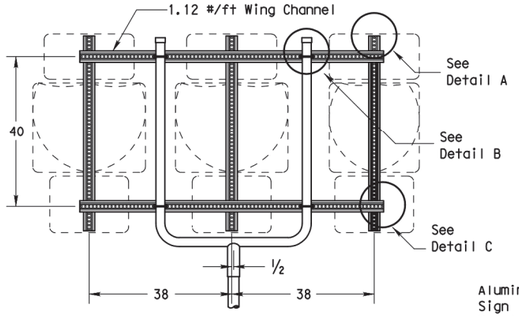
Detail B



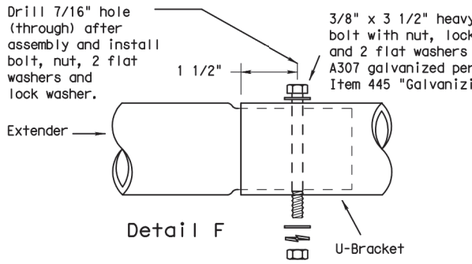
SM RD SGN ASSM TY XXXXX(1)XX(U)



SM RD SGN ASSM TY XXXXX(1)XX(U)

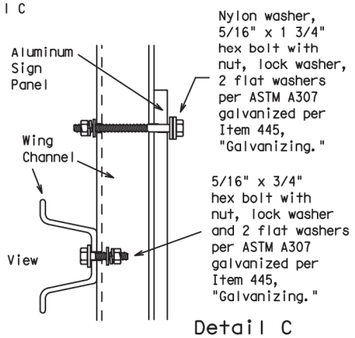


SM RD SGN ASSM TY XXXXX(1)XX(U-WC)
(See Note 11)

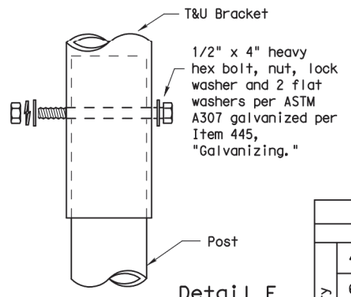


Detail F

Splices shall only be allowed behind the sign substrate.



Detail C



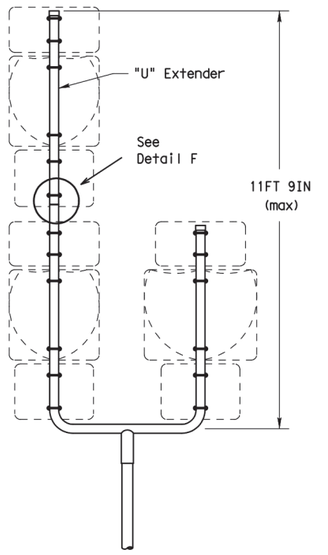
Detail E

GENERAL NOTES:

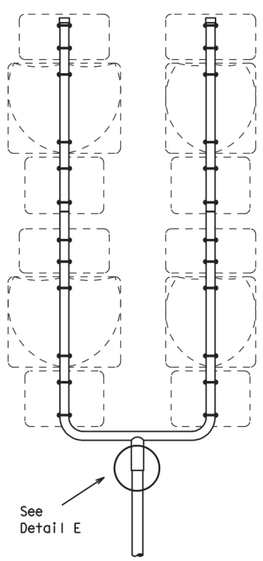
1.

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
4. Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
5. Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
6. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
7. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
8. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
9. Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
10. Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
11. Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
12. Post open ends shall be fitted with Friction Caps.
13. Sign blanks shall be the sizes and shapes shown on the plans.



SM RD SGN ASSM TY S80(1)XX(U-1EXT)



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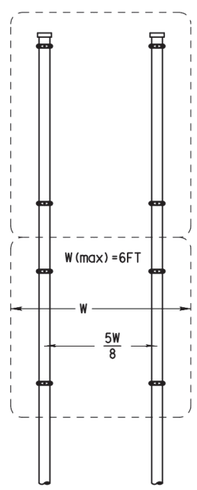

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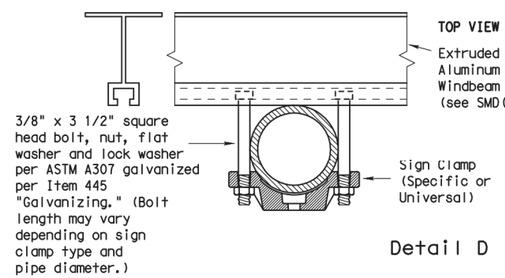
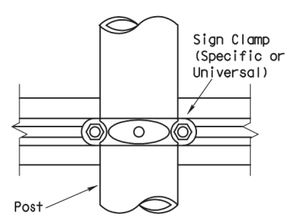
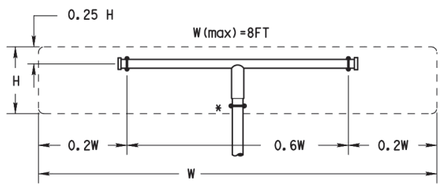


Detail D



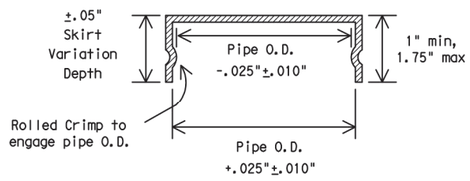
REQUIRED SUPPORT		
	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
Warning	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)



All dimensions are in english unless detailed otherwise.

SM RD SGN ASSM TY XXXXX(1)XX(T)
(* - See Note 12)

FRICTION CAP DETAIL



Friction caps may be manufactured from hot rolled or cold rolled steel sheets. The minimum sheet metal thickness shall be 24 gauge for all cap sizes.

The rim edges shall be reasonably straight and smooth. Caps shall be sized and formed in such a manner as to produce a drive-on friction fit and have no tendency to rock when seated on the pipe. The depth shall be sufficient to give positive protection against entrance of rainwater. They shall be free of sharp creases or indentations and show no evidence of metal fracture.

Caps shall have an electrodeposited coating of zinc in accordance with the requirements of ASTM B633 Class FE/ZN 8.

SHEET 182 OF 273

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-2)-08

©TxDOT July 2002	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
REVISIONS	CONT	SECT	JOB	HIGHWAY
9-08				
	DIST	COUNTY		SHEET NO.
				182

DATE: 9-08
FILE: Bd1710-194

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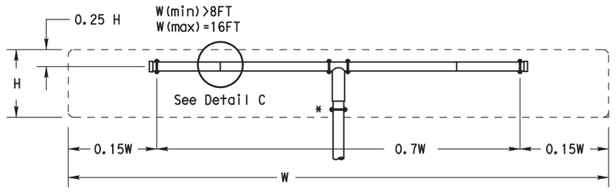
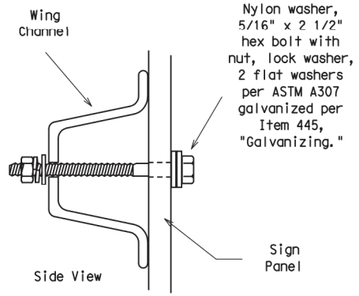
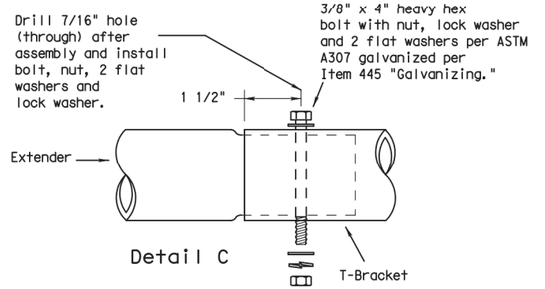


SM RD SGN ASSM TY XXXXX(1)XX(T-2EXT)
(* - See Note 12)



Detail B



Detail C

Splices shall only be allowed behind the sign substrate.

GENERAL NOTES:

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

1. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
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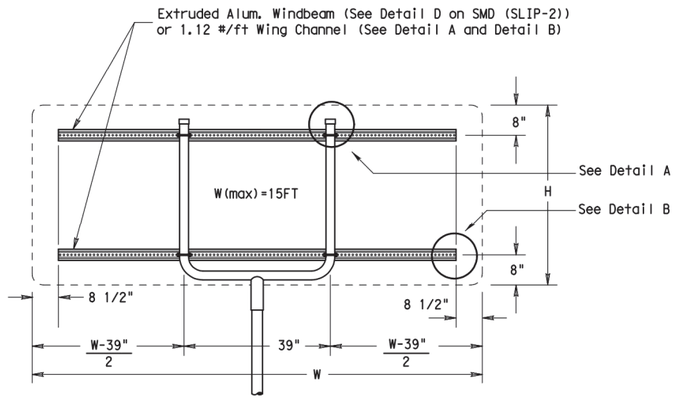
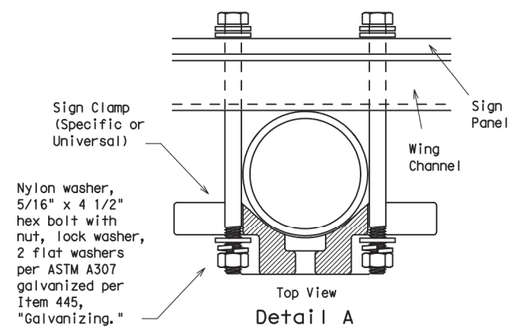
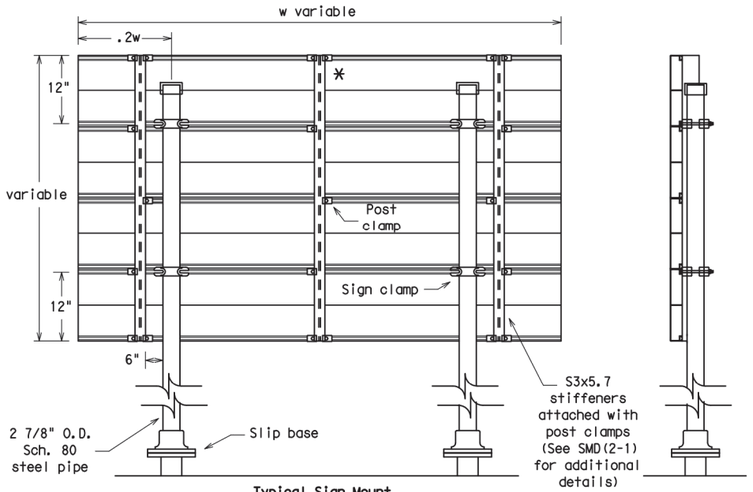
6. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
7. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
8. Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
9. Sign blanks shall be the sizes and shapes shown on the plans.
10. Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
11. Post open ends shall be fitted with Friction Caps.



SM RD SGN ASSM TY XXXXX(1)XX(U-XX)



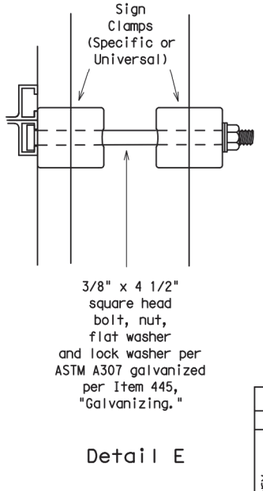
Detail A



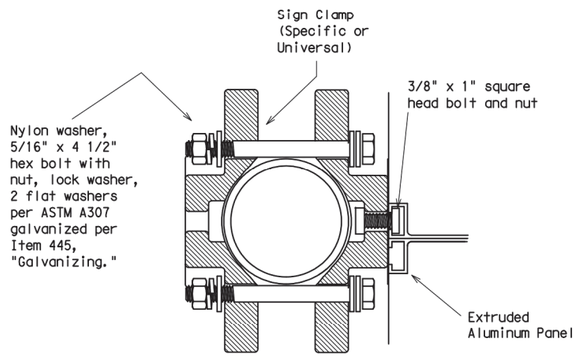
Typical Sign Mount

SM RD SGN ASSM TY S80(2)XX(P-EXAL)

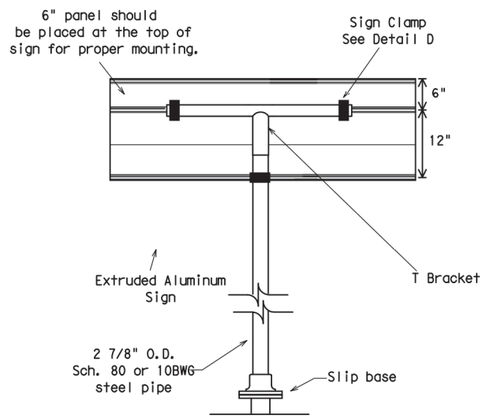
* Additional stiffener placed at approximate center of signs when sign width is greater than 10'.



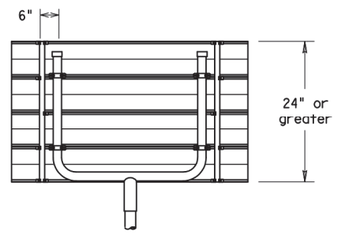
Detail E



Detail D
EXTRUDED ALUMINUM SIGN WITH T BRACKET



Extruded Aluminum Sign
With T Bracket



Use Extruded Alum. Windbeam as stiffeners
See SMD (2-1) for additional details

See Detail E
for clamp installation

REQUIRED SUPPORT

	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
Warning	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-3)-08

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REVISIONS				
9-08				

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
CONT	SECT	JOB	HIGHWAY
DIST	COUNTY		SHEET NO.

SHEET 183 OF 273

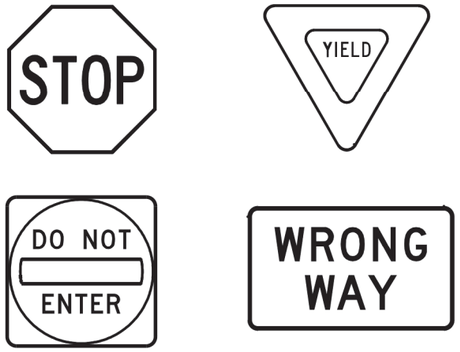
26D

FILE: BC1710-194
DATE:

Williamson County, Texas

REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS

(STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)



REQUIREMENTS FOR FOUR SPECIFIC SIGNS ONLY

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	WHITE	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE B OR C SHEETING
LEGEND	RED	TYPE B OR C SHEETING

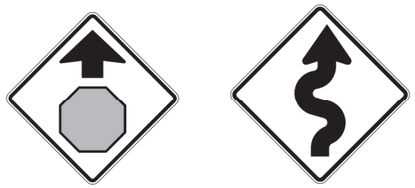
REQUIREMENTS FOR WHITE BACKGROUND REGULATORY SIGNS

(EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)

TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND, BORDERS AND SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

REQUIREMENTS FOR WARNING SIGNS



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	FLOURESCENT YELLOW	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

REQUIREMENTS FOR SCHOOL SIGNS

TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	FLOURESCENT YELLOW GREEN	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
SYMBOLS	RED	TYPE B OR C SHEETING

GENERAL NOTES

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
5. White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
6. Colored legend shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
8. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

SHEET 184 OF 273

Texas Department of Transportation

Traffic Operations Division Standard

TYPICAL SIGN REQUIREMENTS

TSR(4)-13

FILE: tsr4-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT October 2003	CONT	SECT	JOB	HIGHWAY
REVISIONS 12-03 7-13 9-08	DIST	COUNTY		SHEET NO.

4

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

A. GENERAL SITE DATA

1. PROJECT LIMITS: From OLIVE HILL DR. TO ±3,000' EAST

2. PROJECT SITE MAPS:
   * Project Latitude 30.488070 N Project Longitude 97.762358 W
   * Project Location Map: Shown on Title Sheet
   * Drainage Patterns: Shown on Drainage and Erosion and Sedimentation Plans
   * Approx. Slopes Anticipated After Major Gradings and Areas of Soil Disturbance: Shown on Typical Sections
   * Major Controls and Locations of Stabilization Practices: Shown on Erosion and Sedimentation Plans
   * Project Specific Locations: Off–site waste, borrow, or storage areas are not part of this SW3P.
   * Surface Waters and Discharge Locations: Shown on Drainage Plans.

3. PROJECT DESCRIPTION:
   1. Widening of Neenah Ave. to a 51 foot wide roadway. Project also includes removal of the existing sidewalks and construction of 8 foot wide shared use paths on both sides of the roadway. The project includes clearing, grading, ditch, culverts, driveway reconstruction, roadway widening, guardrails, handrails, tree wells, and water quality/ detention pond improvements.

4. FOR MAJOR SOIL DISTURBING ACTIVITIES SEQUENCE OF EVENTS:
   1. Install controls down–slope of work area and initiate inspection and maintenance activities.
   2. Begin phased construction with interim stabilization practices. Adjust erosion and sedimentation controls during construction to meet requirements and changing conditions and as directed/ approved by the Engineer.
   3. Major soil disturbing activities may include but are not limited to: right–of–way preparation, cut and/or fill to improve roadway profile, final grading and placement of topsoil and the following (if marked):

   _X_ Demolition of existing pavement
   _X_ Placement of road base
   _X_ Exstensive ditch grading
   _X_ Extension of a multiple barrel box culvert
   ___ Temporary detour pavement
   ___ Other:
   _X_ Ditch and water quality/ detention pond improvements

5. EXISTING AND PROPOSED CONDITIONS:

   Description of existing vegetative cover: Lawns and maintained grasses
   Percentage of existing vegetative cover: 80%
   Existing vegetative cover: (mark one) _X_ Thick or uniformly established
   ___ Thin and Patchy
   ___ None or minimal cover
   Description of soils: Limestone of the Edwards Formation of Lower Cretaceous Age
   Site Acreage: 9.95 ac Acreage disturbed: 5.25 ac
   Site runoff coefficient (pre–construction): 0.72 Site runoff coefficient (post–construction): 0.75

6. RECEIVING WATERS: *(Mark all that apply)*

   _X_ A classified stream does not pass through project.
   ___ A classified stream passes through project. Name Segment Number
   Name of receiving waters that will receive discharges from disturbed areas of the project: *Davis Spring Branch*

   ___ USACE Wetlands are not located on project.
   ___ USACE Wetlands are present. Contractor shall not disturb without specific authorization.
   Location/Plan Sheet Info.:

   ___ Project is not on Edwards Aquifer Recharge Zone or Contributing Zone.
   _X_ Project is on Edwards Aquifer Recharge Zone.
   ___ Project is on Edwards Aquifer Contributing Zone.

   ___ No Water Pollution Abatement Plan or Contributing Zone Plan required.
   _X_ A Water Pollution Abatement Plan or Contributing Zone Plan applies to project.

B. BEST MANAGEMENT PRACTICES

General timing or sequence for implementation of BMPs shall be as required and/or as directed/approved by the Engineer to provide adequate controls. BMPs shown on plan sheets are to be considered "proposed" unless/until install date is shown. BMPs are to reduce sediments from road construction activities.

1. SOIL STABILIZATION PRACTICES: (Select T = Temporary or P = Permanent, as applicable)

   _P_ SEEDING
   _T,P_ MULCHING (Hay or Straw)
   _T,P_ BUFFER ZONES
   _P_ PLANTING
   _T_ COMPOST/MULCH FILTER BERM
   _P_ SODDING
   _P_ PRESERVATION OF NATURAL RESOURCES
   _P_ FLEXIBLE CHANNEL LINER
   _P_ RIGID CHANNEL LINER
   _T_ SOIL RETENTION BLANKET
   _P_ COMPOST MANUFACTURED TOPSOIL
   ___ OTHER:

2. STRUCTURAL PRACTICES: (Select T = Temporary or P = Permanent, as applicable)

   _T_ SILT FENCES
   ___ HAY BALES
   _T_ ROCK FILTER DAMS
   ___ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
   ___ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
   ___ DIVERSION DIKE AND SWALE COMBINATIONS
   ___ PIPE SLOPE DRAINS
   ___ PAVED FLUMES
   _T_ ROCK BEDDING AT CONSTRUCTION EXIT
   ___ TIMBER MATTING AT CONSTRUCTION EXIT
   ___ CHANNEL LINERS
   ___ SEDIMENT TRAPS
   _P_ SEDIMENT BASINS
   _T_ STORM INLET SEDIMENT TRAP
   ___ STONE OUTLET STRUCTURES
   _P_ CURBS AND GUTTERS
   _P_ STORM SEWERS
   _P_ VELOCITY CONTROL DEVICES
   _X_ OTHER:(Specify Practice)
   _P_ WATER QUALITY PONDS
   ___ VEGETATIVE FILTER STRIPS

3. STORM WATER MANAGEMENT:

   The proposed facility was designed in consideration of hydraulic design standards to convey stormwater in a manner that is protective of public safety and property. The control of erosion from the facility is inherent to the design. Additional factors affecting post–construction stormwater at the project location include: (mark all that apply)

   _X_ Existing or new vegetation provides natural filtration.
   _X_ The design includes provisions for permanent erosion controls provided by strategically placed pervious and impervious surfaces.
   ___ Project includes permanent sedimentation controls (other than grass).
   ___ Velocities do not require dissipation devices.
   _X_ Velocity–dissipation devices included in the design.
   ___ Other :

4. NON–STORM WATER DISCHARGES:

   Off–site discharges are prohibited except as follows:
   1. Discharges from fire fighting activities and/or fire hydrant flushings.
   2. Vehicle, external building, and pavement wash water where detergents and soaps are not used and where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed).
   3. Plain water used to control dust.
   4. Plain water originating from potable water sources.
   5. Uncontaminated groundwater, spring water or accumulated stormwater.
   6. Foundation or footing drains where flows are not contaminated with process materials such as solvents.
   7. Other:

   Concrete truck wash water discharges on the site should be prohibited or minimized. If allowed by the Engineer, they must be managed in a manner so as not to contaminate surface water. They must not be located in areas of concentrated flow. Concrete truck wash–out locations must be shown on the SW3P Layout and included in the inspections.

   Hazardous material spill/leak discharges of hazardous substances shall be prevented or minimized. At a minimum, this includes asphalt products, fuels, oils, lubricants, solvents, paints, acids, concrete curing compounds and additives and chemical additives for soil stabilization. BMPs shall be implemented to the storage areas of these products. All spills must be cleaned up by the Contractor, disposed properly and reported to the Engineer. The Contractor is to immediately report any release at or above the reportable quantity during a 24 hour period to the National Response Center at 1–800–424–8802.

C. OTHER REQUIREMENTS & PRACTICES

1. MAINTENANCE:
   All erosion and sediment controls shall be maintained in good working order. If a repair is necessary, it shall be performed before the next anticipated storm event but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from equipment. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. Disturbed areas on which construction activities have ceased, temporarily or permanently, shall be stabilized within 14 calendar days unless they are scheduled to and do resume within 21 calendar days. The areas adjacent to creeks and drainageways shall have priority followed by devices protecting storm sewer inlets.

2. INSPECTION:
   For areas of the construction site that have not been finally stabilized, areas used for storage of materials, structural control measures, and locations where vehicles enter or exit the site, personnel provided by the permittee and familiar with the SW3P must inspect disturbed areas at least once every fourteen (14) calendar days and within twenty four (24) hours of the end of a storm event of 0.5 inches or greater. *As an alternative to the above-described inspection schedule of once every fourteen (14) calendar days and within twenty four (24) hours of a storm event of 0.5 inches or greater, the SW3P may be developed to require that these inspections will occur at least once every seven (7) calendar days. If this alternative schedule is developed, the inspection must occur on a specifically defined day, regardless of whether or not there has been rainfall event since the previous inspection.* An Inspection and Maintenance Report shall be prepared for each inspection and the controls shall be revised on the SW3P within seven (7) calendar days following the inspection.

3. WASTE MATERIALS:
   All non–hazardous municipal waste materials such as litter, rubbish, trash and garbage located on or originating from the project shall be collected and stored in a securely lidded metal dumpster, provided by the Contractor. The dumpster shall be emptied as necessary or as required by local regulation and the trash shall be hauled to an appropriately permitted disposal facility. The burying of non–hazardous municipal waste on the project shall not be permitted. Construction material waste sites, stockpiles and haul roads shall be constructed to will minimize and control the amount of sediment that may enter receiving waters. Construction material waste sites shall not be located in any wetland, water body or stream bed. Construction staging areas and vehicle maintenance areas shall be constructed in a manner to minimize the runoff of pollutants.

4. OFFSITE VEHICLE TRACKING:
   Off–site vehicle tracking of sediments and the generation of dust must be minimized. Excess sediments on road shall be removed on a regular basis as directed/approved by the Engineer.

5. PERMITS:
   No solid material shall be discharged to US Army Corps of Engineers (USACE) jurisdictional waters without a Section 404 Permit. When the placement of such materials is not avoidable, they shall be cleared from waterways as soon as practicable. Jurisdictional waters and Section 404 Permits on the project are as follows:

Water	Sta. No.	Section 404 Permit
unnamed tributary to Davis Spring Branch	23+10	N/A–below notification threshold

6. KARST FEATURES:
   If karst features such as caves, sinkholes and/or solution cavities are found during construction,cease work immediately and contact TCEQ, Williamson County and the Engineer.

8-4-17
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SW3P NOTES

SHEET 185 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				185

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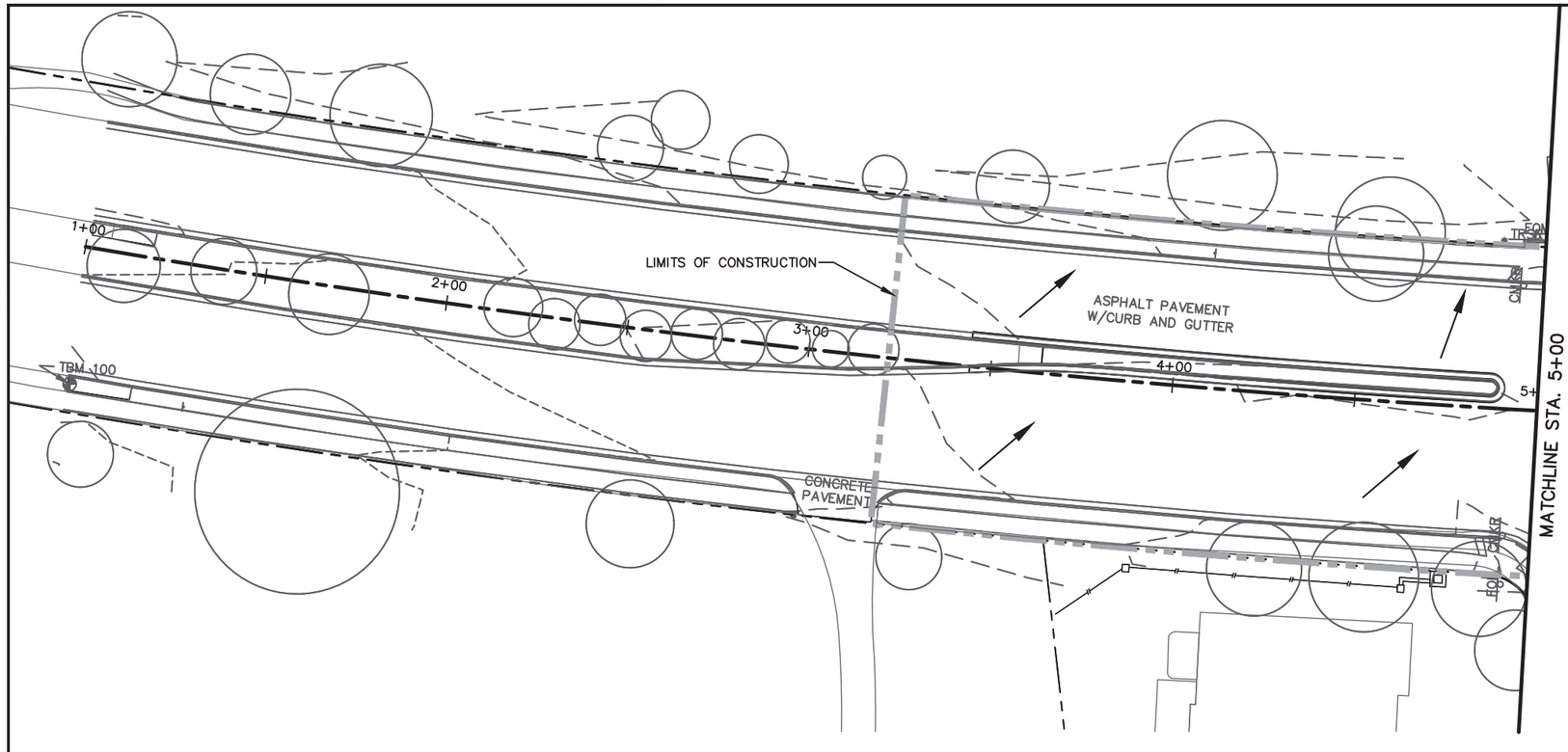

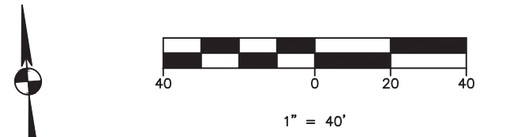

LEGEND

- DITCH FLOW ARROW
- FLOW ARROW
- CONSTRUCTION LIMITS
- EXIST. WOOD FENCE
- CONSTRUCTION ENTRANCE
- NATIVE SEEDING PER SPEC 604S
- NATIVE SEEDING PER SPEC 609S
- RFD3 — ROCK FILTER DAM TYPE 3
- TFD — TRIANGULAR SEDIMENT FILTER DIKE
- ROW
- ROCK BERM
- 859 — PROP. CONTOURS
- 860 — EXIST. CONTOURS
- S — SILT FENCE
- TP — TREE PROTECTION
- MS — MULCH SOCK

EROSION AND SEDIMENTATION PLAN NOTES

APPLICABLE TO SHEETS 186 TO 198

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
3. PROPOSED FENCING SHOWN OFFSET FROM ROW FOR VISUAL REFERENCES. FENCE TO BE CONSTRUCTED ALONG ROW.
4. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
5. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH TRAP OR REVEGEATION MAT. ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN–COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING CONSTRUCTION SUCH AS IRRIGATION TRUCKS, AND MULCHING AS PER ECM 1.45(A), OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY. [ECM 1.4.4 D4]
6. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF SEDIMENT TRANSPORTED FROM THE LIMITS OF CONSTRUCTION TO THE OFFSITE DETENTION/WATER QUALITY PONDS. THIS SHALL BE A NON SEPARATE PAY ITEM
7. REFER TO SHEETS 193 TO 194 FOR THE DEWATERING PLAN.
8. REFER TO SHEET 117 FOR COMPLETE LIMITS OF CRITICAL WATER QUALITY ZONE BUFFERING AREA 1, 2 AND 3.

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EROSION AND SEDIMENTATION PLAN STA. 1+00 TO STA.5+00

SHEET 186 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				186

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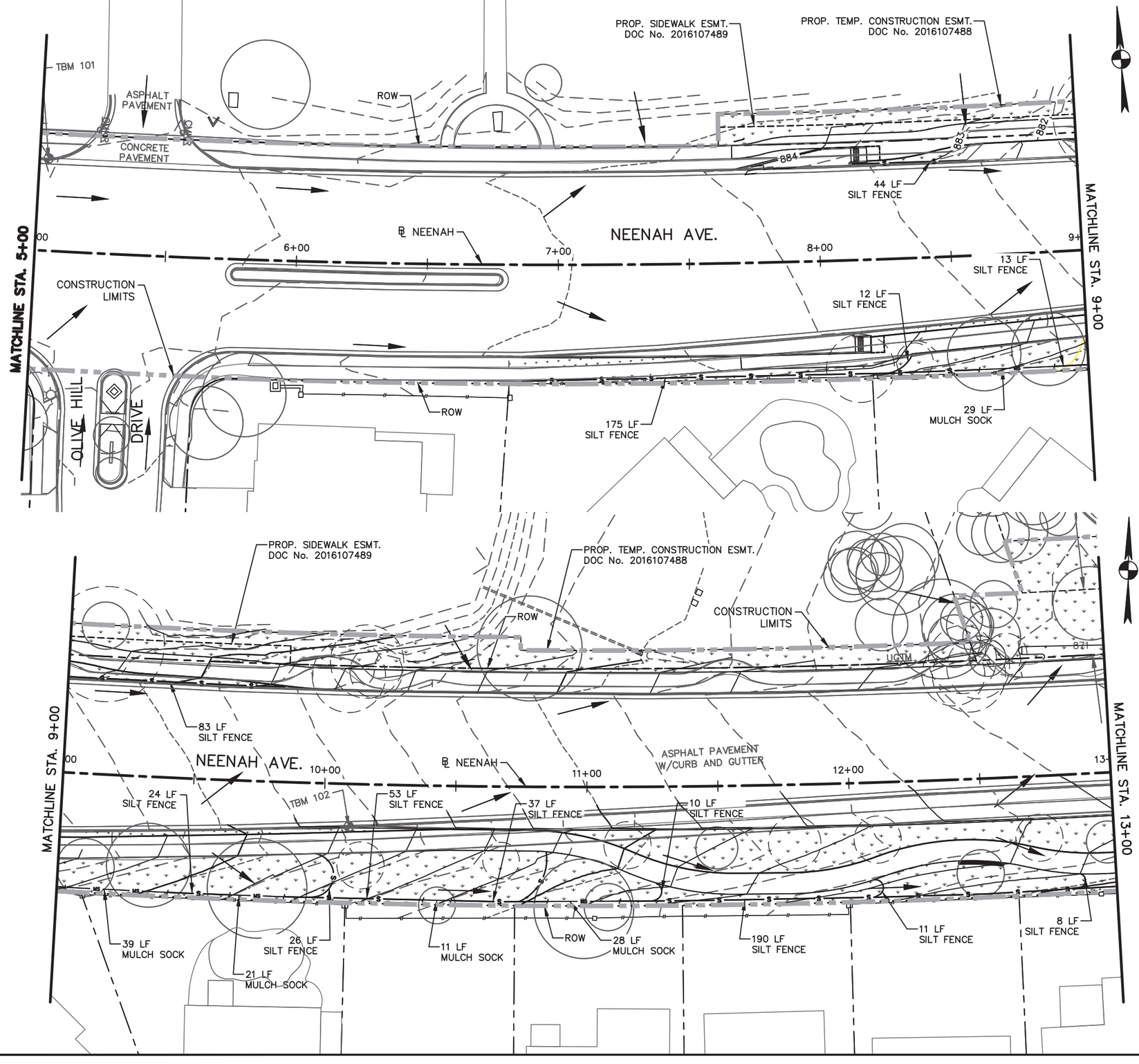

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EROSION AND SEDIMENTATION PLAN
STA. 5+00 TO STA.13+00

SHEET 187 OF 273

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6	TEXAS	104023–10006	_	14	WILLIAMSON				187

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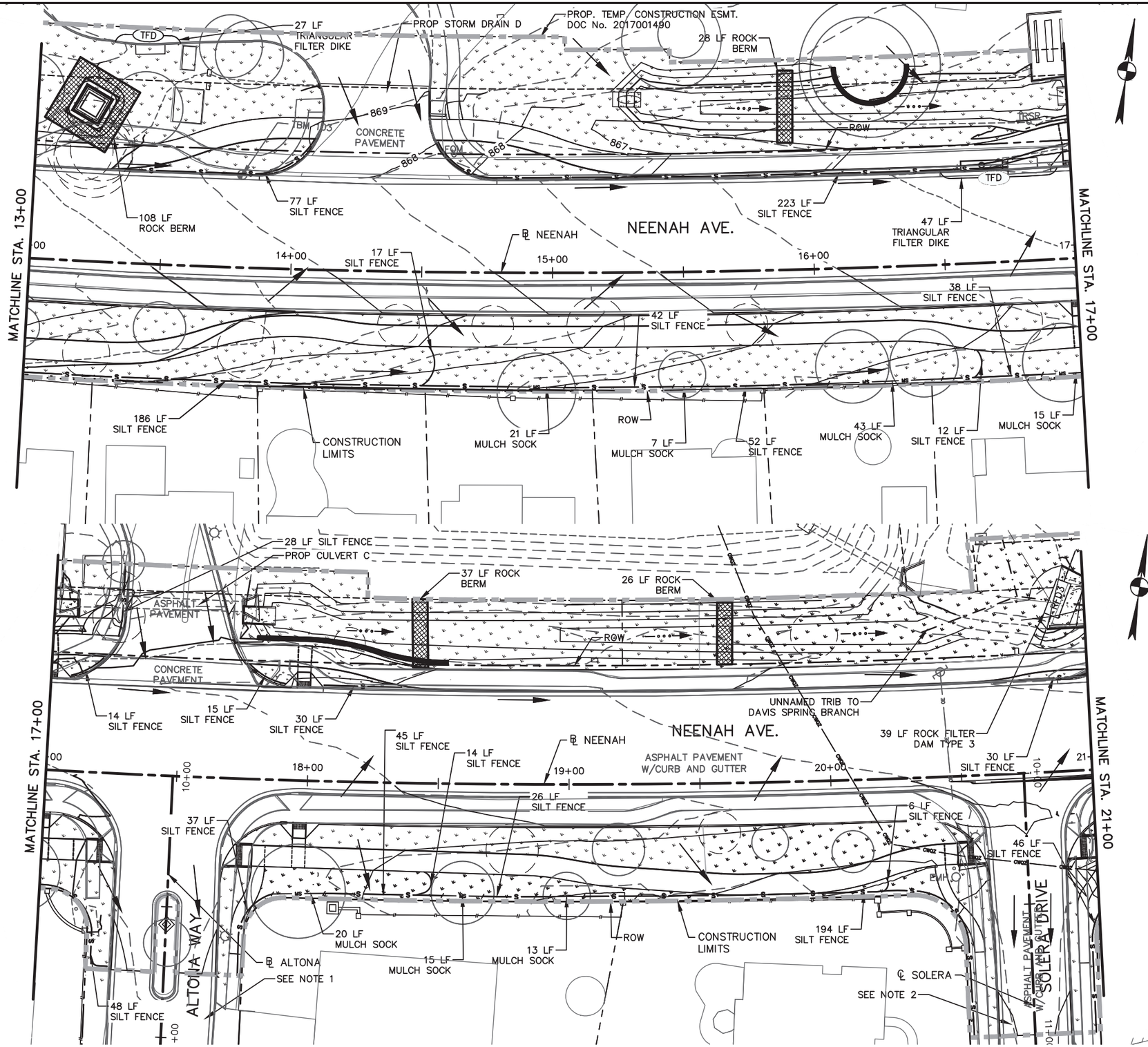

NOTES:

1. INSTALL 60 LF TRIANGULAR SEDIMENT FILTER DIKE AT THE CURB INLET ON ALTONA WAY SOUTH OF IRONDALE DRIVE, AND AT THE CURB OPENING TO THE WATER QUALITY POND AT THE ALTONA WAY CUL-DE-SAC.
2. INSTALL 15 LF TRIANGULAR SEDIMENT FILTER DIKE AT THE FLUME TO THE WATER QUALITY POND AT THE SOLERA DRIVE CUL-DE-SAC.
3. THIS AREA REQUIRES NATIVE GRASSLAND SEEDING AND PLANTING PER SPECIFICATION 609S.6, INCLUDING TOP SOIL AND SEED BED PREPARATION, TEMPORARY IRRIGATION, AND WEED MAINTENANCE.

LEGEND

- DITCH FLOW ARROW
- FLOW ARROW
- CONSTRUCTION LIMITS
- EXIST. WOOD FENCE
- CONSTRUCTION ENTRANCE
- NATIVE SEEDING PER SPEC 604S
- NATIVE SEEDING PER SPEC 609S (SEE NOTE 3)
- RFD3 — ROCK FILTER DAM TYPE 3
- TFD — TRIANGULAR SEDIMENT FILTER DIKE
- ROW
- ROCK BERM
- 859 — PROP. CONTOURS
- 860 — EXIST. CONTOURS
- S — SILT FENCE
- TP — TREE PROTECTION
- MS — MULCH SOCK

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EROSION AND SEDIMENTATION PLAN STA 13+00 TO STA. 21+00

SHEET 188 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				188

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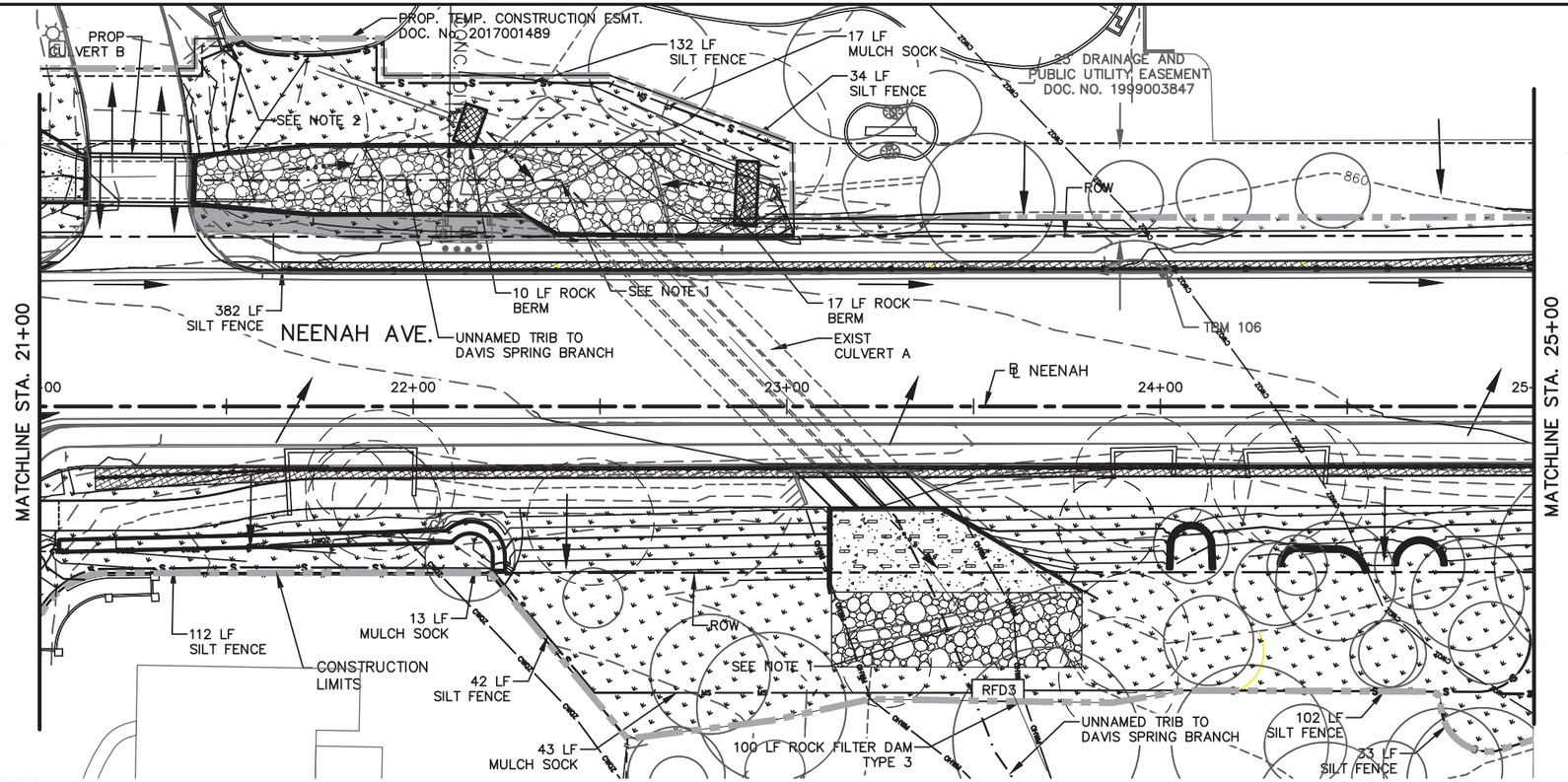

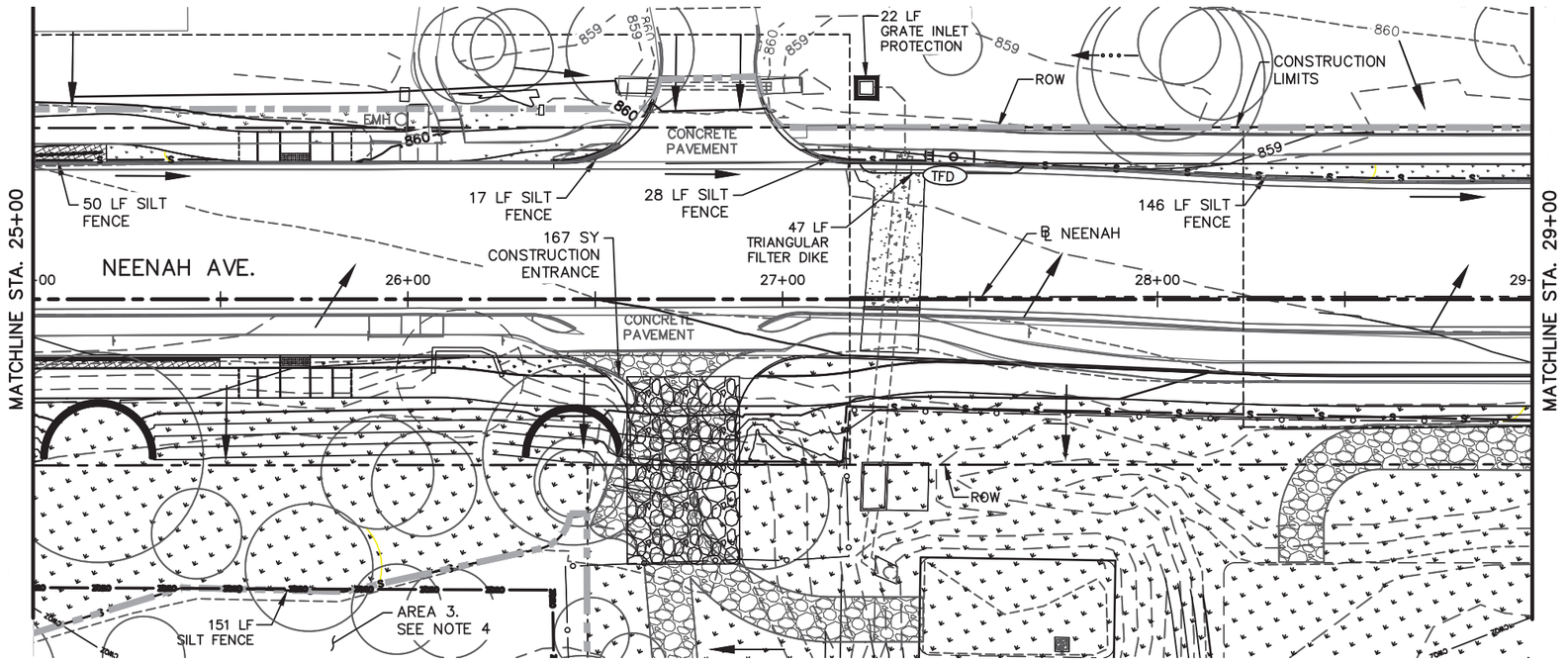

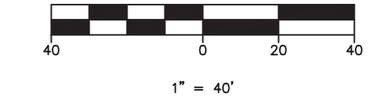

NOTES:

1. CONTRACTOR SHALL REMOVE AND DISPOSE EXIST. ROCK GABION, AND ACCUMULATED SEDIMENT UPSTREAM OF ROCK GABION INCLUDING SEDIMENT WITH IN EXIST. MBC.
2. CONTRACTOR TO PLACE 170 LF OF SILT FENCE ALONG THE EDGE OF THE POND.
3. THIS AREA REQUIRES NATIVE GRASSLAND SEEDING AND PLANTING PER SPECIFICATION 609S.6, INCLUDING TOP SOIL AND SEED BED PREPARATION, TEMPORARY IRRIGATION, AND WEED MAINTENANCE.
4. THE OUTER HALF OF THE CRITICAL WATER QUALITY ZONE HAS BEEN BUFFERED IN THE VICINITY OF POND 2. AREA 1 (4,754.15 SF) AND AREA 2 (192.76 SF) HAVE BEEN REMOVED FOR A TOTAL OF 4,946.91 SF. AREA 3 (4,950.00 SF) HAS BEEN ADDED, FOR A NET GAIN OF 3.09 SF OF CRITICAL WATER QUALITY ZONE ON THE PROJECT.

LEGEND

- DITCH FLOW ARROW
- FLOW ARROW
- CONSTRUCTION LIMITS
- EXIST. WOOD FENCE
- CONSTRUCTION ENTRANCE
- NATIVE SEEDING PER SPEC 604S
- NATIVE SEEDING PER SPEC 609S (SEE NOTE 3)
- RFD3 — ROCK FILTER DAM TYPE 3
- TFD — TRIANGULAR SEDIMENT FILTER DIKE
- CWQZ — AVERAGED CRITICAL WATER QUALITY ZONE
- CWQZ — ORIGINAL CRITICAL WATER QUALITY ZONE
- ROW
- ROCK BERM
- 859 — PROP. CONTOURS
- 860 — EXIST. CONTOURS
- S — SILT FENCE
- TP — TREE PROTECTION
- MS — MULCH SOCK

8.4.17
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EROSION AND SEDIMENTATION PLAN STA. 21+00 TO STA. 29+00

SHEET 189 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				189

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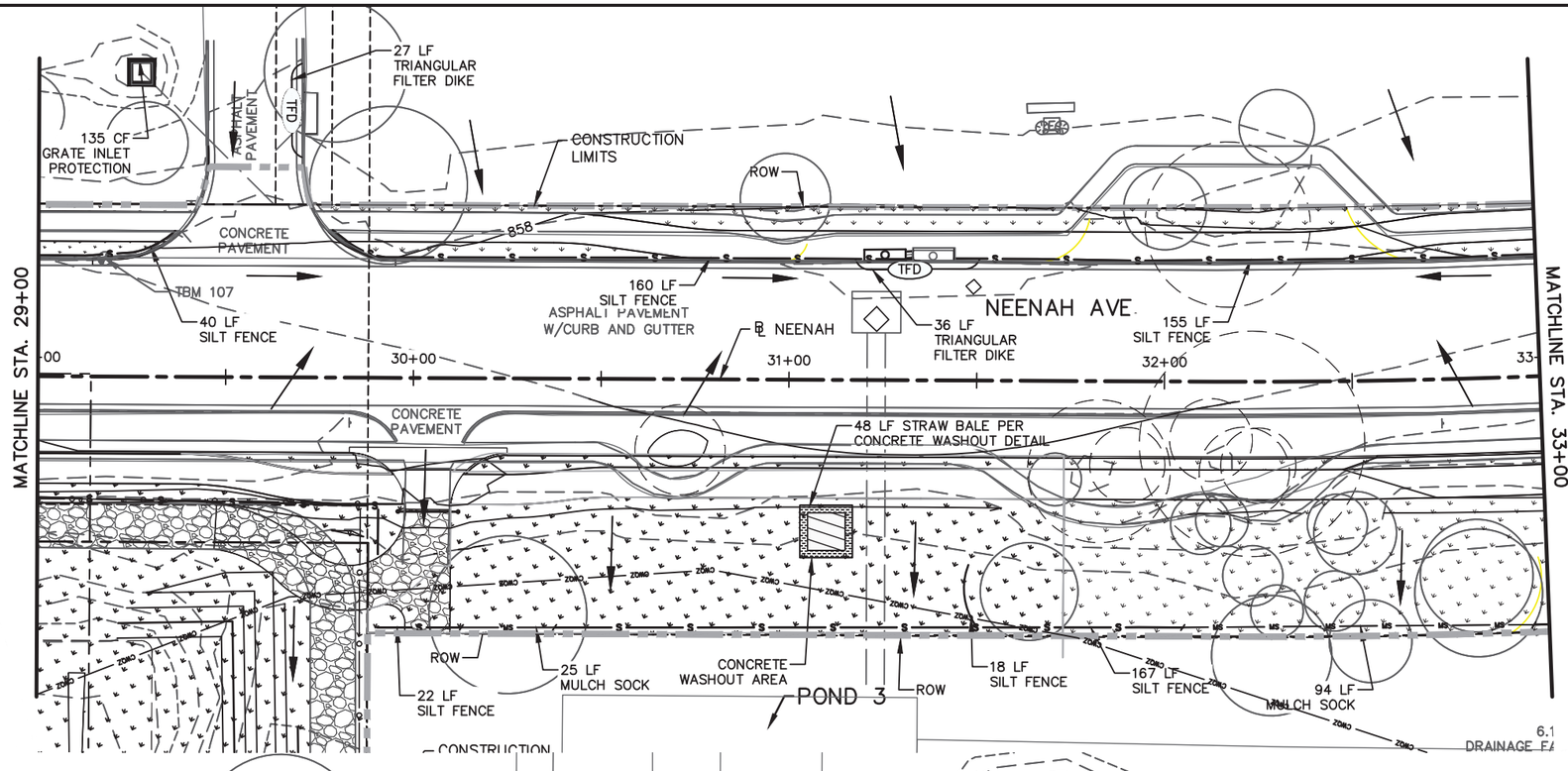

40 0 20 40

1" = 40'

NOTES:

1. THIS AREA REQUIRES NATIVE GRASSLAND SEEDING AND PLANTING PER SPECIFICATION 609S.6, INCLUDING TOP SOIL AND SEED BED PREPARATION, TEMPORARY IRRIGATION, AND WEED MAINTENANCE.

LEGEND

- DITCH FLOW ARROW
- FLOW ARROW
- CONSTRUCTION LIMITS
- EXIST. WOOD FENCE
- CONSTRUCTION ENTRANCE
- NATIVE SEEDING PER SPEC 604S
- NATIVE SEEDING PER SPEC 609S (SEE NOTE 1)
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- 859 — PROP. CONTOURS
- 860 — EXIST. CONTOURS
- S — SILT FENCE
- TP — TREE PROTECTION
- MS — MULCH SOCK
- CONSTRUCTION STAGING AND SPOIL AREA

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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EROSION AND SEDIMENTATION PLAN STA. 29+00 TO 37+00

SHEET 190 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				190

SP-2016-0186D

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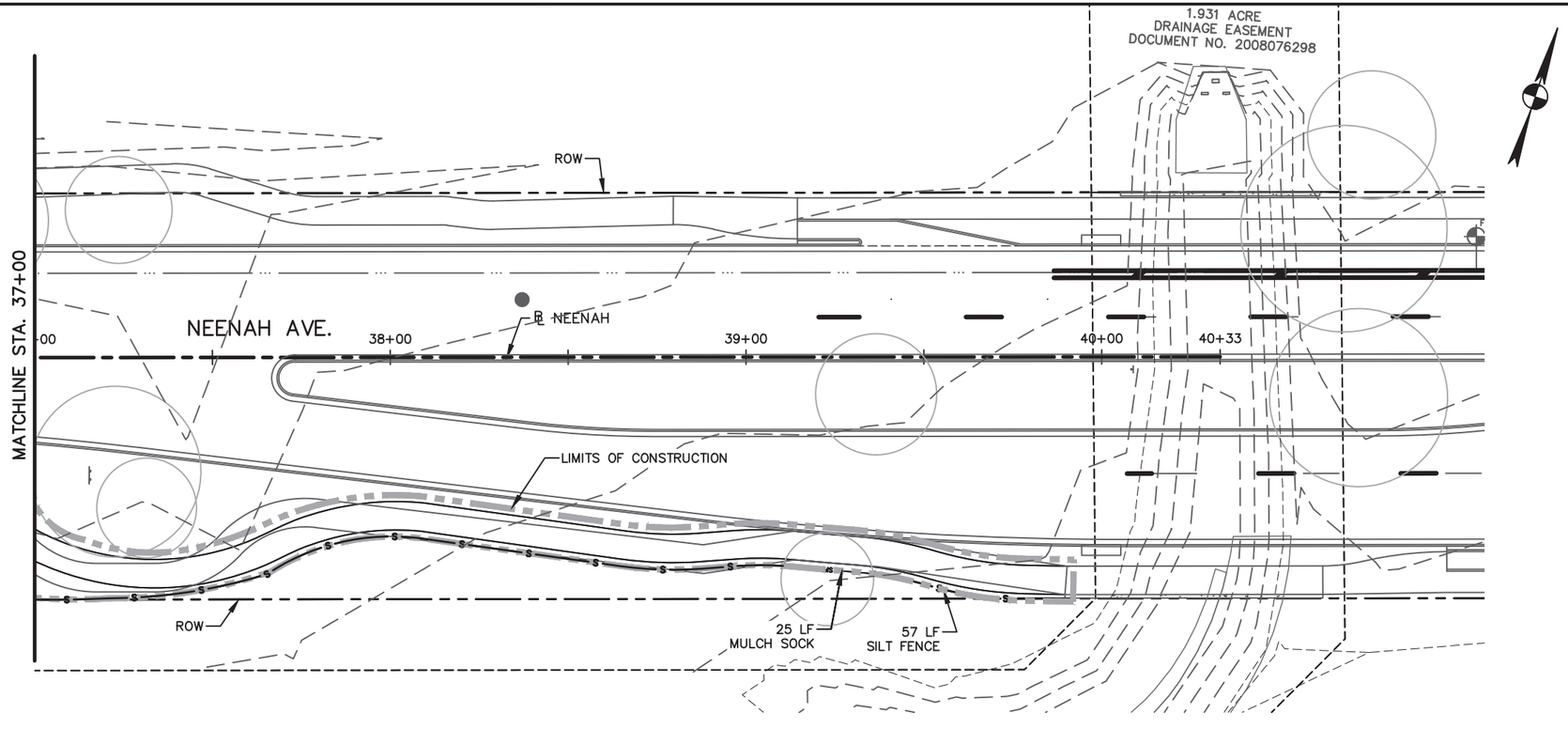

1" = 40'

LEGEND

- DITCH FLOW ARROW
- FLOW ARROW
- CONSTRUCTION LIMITS
- EXIST. WOOD FENCE
- CONSTRUCTION ENTRANCE
- NATIVE SEEDING PER SPEC 604S
- NATIVE SEEDING PER SPEC 609S
- RFD3 — ROCK FILTER DAM TYPE 3
- TFD — TRIANGULAR SEDIMENT FILTER DIKE
- ROW
- ROCK BERM
- 859 — PROP. CONTOURS
- 860 — EXIST. CONTOURS
- S — SILT FENCE
- TP — TREE PROTECTION
- MS — MULCH SOCK

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
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EROSION AND SEDIMENTATION PLAN
STA.37+00 TO END

SHEET 191 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				191

SP-2016-0186D

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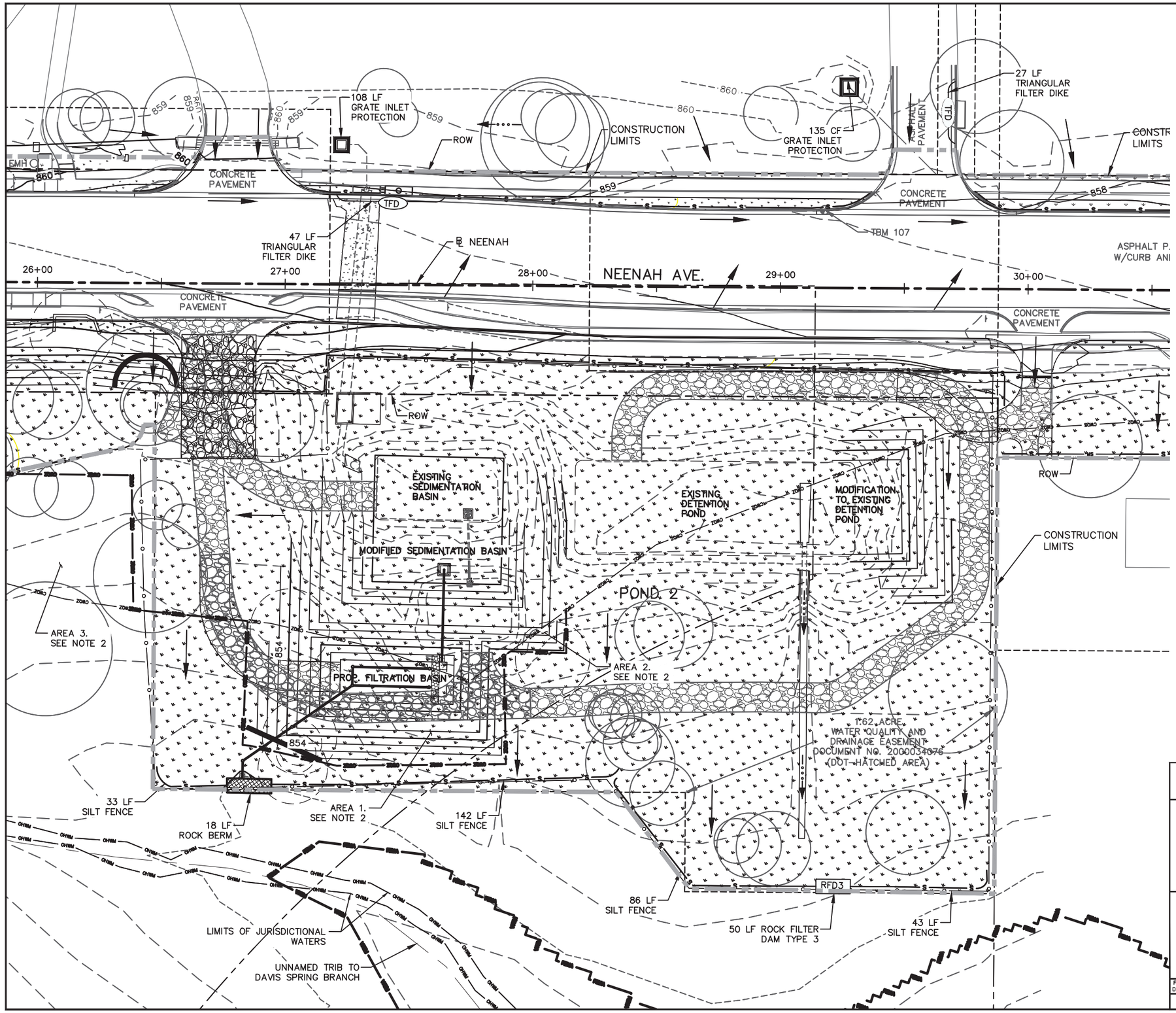

40 0 20 40

1" = 40'

NOTES:

1. THIS AREA REQUIRES NATIVE GRASSLAND SEEDING AND PLANTING PER SPECIFICATION 609S.6, INCLUDING TOP SOIL AND SEED BED PREPARATION, TEMPORARY IRRIGATION, AND WEED MAINTENANCE.
2. THE OUTER HALF OF THE CRITICAL WATER QUALITY ZONE HAS BEEN BUFFERED IN THE VICINITY OF POND 2. AREA 1 (4,754.15 SF) AND AREA 2 (192.76 SF) HAVE BEEN REMOVED FOR A TOTAL OF 4,946.91 SF. AREA 3 (4,950.00 SF) HAS BEEN ADDED, FOR A NET GAIN OF 3.09 SF OF CRITICAL WATER QUALITY ZONE ON THE PROJECT.

LEGEND

- DITCH FLOW ARROW
- FLOW ARROW
- CONSTRUCTION LIMITS
- EXIST. WOOD FENCE
- CONSTRUCTION ENTRANCE
- NATIVE SEEDING PER SPEC 604S
- NATIVE SEEDING PER SPEC 609S (SEE NOTE 1)
- RFD3 — ROCK FILTER DAM TYPE 3
- TFD — TRIANGULAR SEDIMENT FILTER DIKE
- AVERAGED CRITICAL WATER QUALITY ZONE
- CWQZ — ORIGINAL CRITICAL WATER QUALITY ZONE
- ROW
- ROCK BERM
- 859 — PROP. CONTOURS
- 860 — EXIST. CONTOURS
- S — SILT FENCE
- TP — TREE PROTECTION
- MS — MULCH SOCK

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
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Stephanie D Blew

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EROSION AND SEDIMENTATION PLAN WATER QUALITY & DETENTION POND 2

SHEET 192 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				192

SP-2016-0186D

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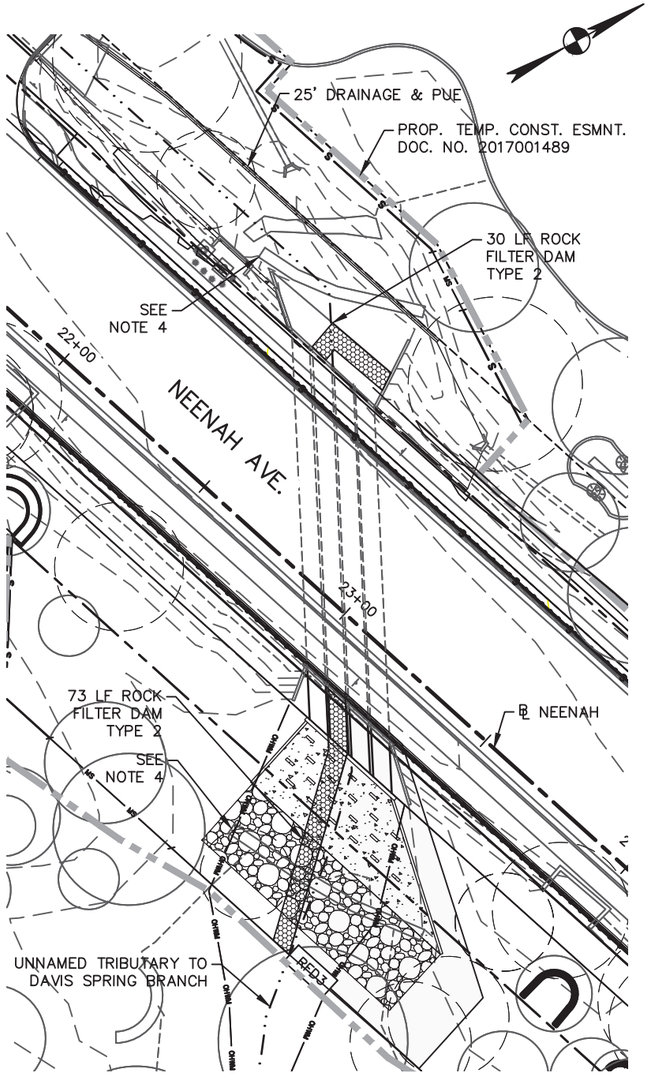
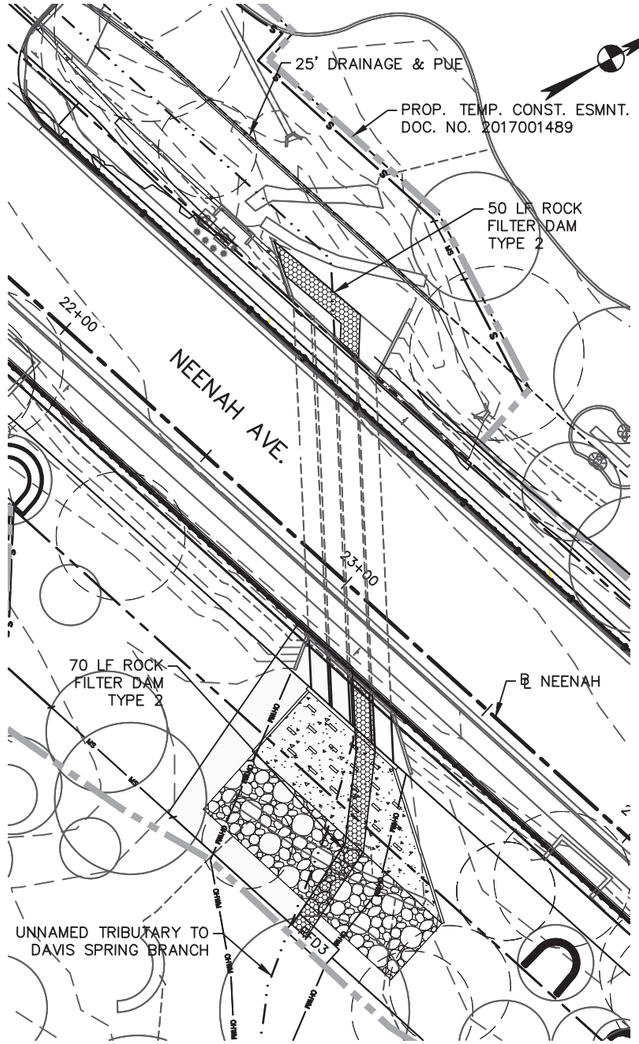
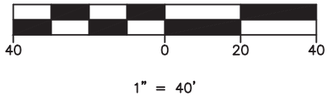


PHASE A



PHASE B



CONSTRUCTION LIMITS
RFD3 — ROCK FILTER DAM TYPE 3
ROW
ROCK BERM
859 — PROP. CONTOURS
860 — EXIST. CONTOURS
S — SILT FENCE
MS — MULCH SOCK
ROCK FILTER DAM TYPE 2 WITH FILTER FABRIC OVERLAY
WORK AREA

PHASE A NOTES::
1. CONTRACTOR TO INSTALL EROSION AND SEDIMENT CONTROLS DOWNSTREAM OF WORK AREA AS SHOWN ON EROSION AND SEDIMENTATION PLANS.
2. CONTRACTOR TO INSTALL TREE PROTECTION FENCING AS SHOWN ON TREE PRESERVATION PLANS.
3. CONTRACTOR TO REFER TO THE TRAFFIC CONTROL PLANS FOR OVERALL PROJECT CONSTRUCTION PHASING INFORMATION.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXIST. ROCK GABION, AND ACCUMULATED SEDIMENT UPSTREAM OF ROCK GABION INCLUDING SEDIMENT WITH IN EXIST. MBC.
5. CONTRACTOR TO INSTALL ROCK FILTER DAM TYPE 2 WITH FILTER FABRIC OVERLAY IN AREAS SHOWN.
6. PERFORM CONSTRUCTION ACTIVITIES FOR THE EASTERN END OF THE MULTIPLE BARREL BOX CULVERT EXTENSION, HEADWALL, WINGWALL, AND RIPRAP.

PHASE B NOTES::
1. CONTRACTOR TO MAINTAIN EROSION AND SEDIMENT CONTROLS DOWNSTREAM OF WORK AREA AS SHOWN ON EROSION AND SEDIMENTATION PLANS.
2. CONTRACTOR TO MAINTAIN TREE PROTECTION FENCING AS SHOWN ON TREE PRESERVATION PLANS.
3. CONTRACTOR TO REFER TO THE TRAFFIC CONTROL PLANS FOR OVERALL PROJECT CONSTRUCTION PHASING INFORMATION.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ROCK FILTER DAM TYPE 2 WITH FILTER FABRIC OVERLAY FROM PHASE A, AND ACCUMULATED SEDIMENT UPSTREAM OF ROCK GABION INCLUDING SEDIMENT WITH IN EXIST. MBC.
5. CONTRACTOR TO INSTALL ROCK FILTER DAM TYPE 2 WITH FILTER FABRIC OVERLAY IN AREAS SHOWN.
6. PERFORM CONSTRUCTION ACTIVITIES FOR THE WESTERN END OF THE MULTIPLE BARREL BOX CULVERT EXTENSION, HEADWALL, WINGWALL, AND RIPRAP.

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
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LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

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DEWATERING PLAN CULVERT A

SHEET 193 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				193

SP-2016-0186D

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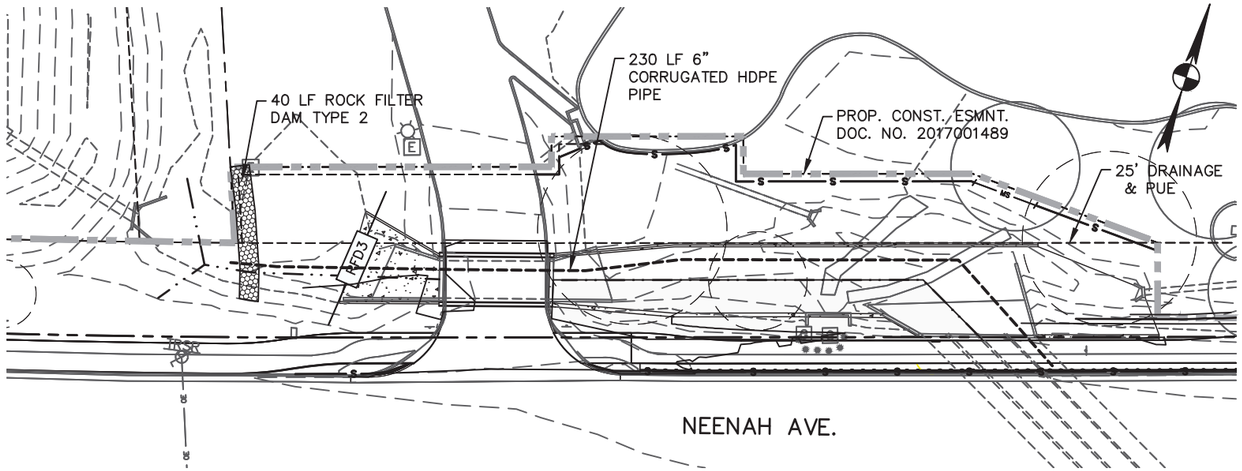
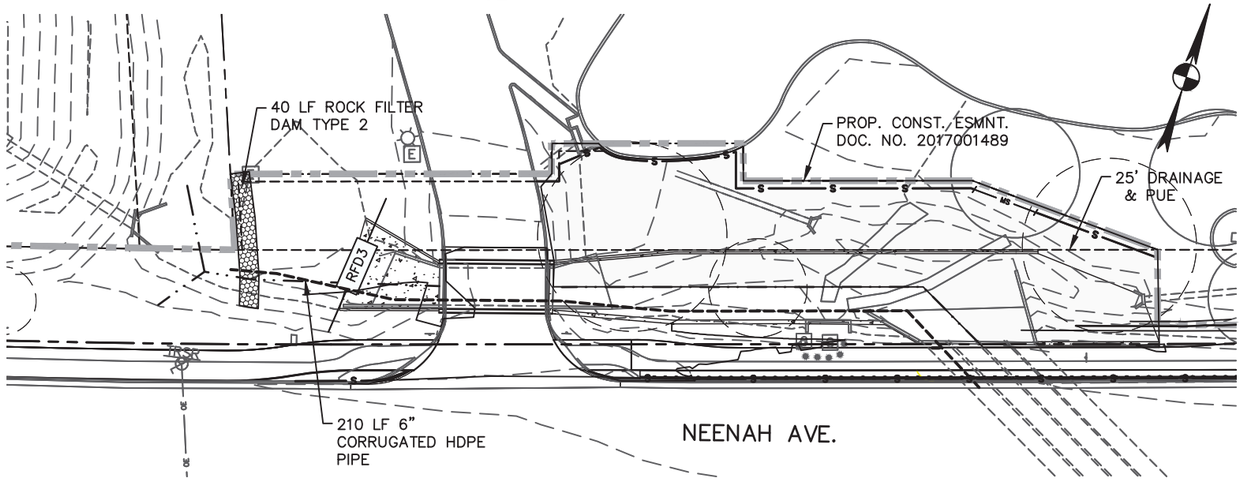


PHASE A



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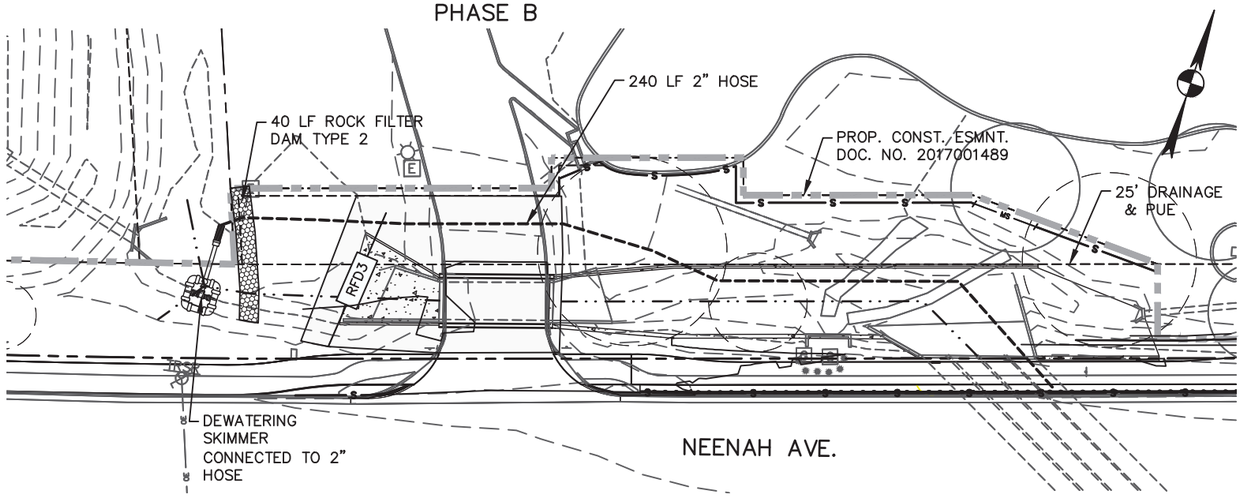

PHASE C

1" = 40'

PHASE A NOTES:

1. CONTRACTOR TO INSTALL EROSION AND SEDIMENT CONTROLS DOWNSTREAM OF WORK AREA AS SHOWN ON EROSION AND SEDIMENTATION PLANS.
2. CONTRACTOR TO INSTALL TREE PROTECTION FENCING AS SHOWN ON TREE PRESERVATION PLANS.
3. CONTRACTOR TO REFER TO THE TRAFFIC CONTROL PLANS FOR OVERALL PROJECT CONSTRUCTION PHASING INFORMATION.
4. CONTRACTOR TO INSTALL ROCK FILTER DAM TYPE 2 WITH FILTER FABRIC OVERLAY IN AREA SHOWN.
5. PERFORM CONSTRUCTION ACTIVITIES FOR THE SOUTH RETAINING WALL AND CHANNEL LINING.

PHASE B NOTES:

1. CONTRACTOR TO MAINTAIN EROSION AND SEDIMENT CONTROLS DOWNSTREAM OF WORK AREA AS SHOWN ON EROSION AND SEDIMENTATION PLANS.
2. CONTRACTOR TO MAINTAIN TREE PROTECTION FENCING AS SHOWN ON TREE PRESERVATION PLANS.
3. CONTRACTOR TO REFER TO THE TRAFFIC CONTROL PLANS FOR OVERALL PROJECT CONSTRUCTION PHASING INFORMATION.
4. CONTRACTOR TO INSTALL ROCK FILTER DAM TYPE 2 WITH FILTER FABRIC OVERLAY IN AREA SHOWN.
5. PERFORM CONSTRUCTION ACTIVITIES FOR THE NORTH RETAINING WALL AND CHANNEL LINING.

PHASE C NOTES:

1. CONTRACTOR TO MAINTAIN EROSION AND SEDIMENT CONTROLS DOWNSTREAM OF WORK AREA AS SHOWN ON EROSION AND SEDIMENTATION PLANS.
2. CONTRACTOR TO MAINTAIN TREE PROTECTION FENCING AS SHOWN ON TREE PRESERVATION PLANS.
3. CONTRACTOR TO REFER TO THE TRAFFIC CONTROL PLANS FOR OVERALL PROJECT CONSTRUCTION PHASING INFORMATION.
4. CONTRACTOR TO INSTALL ROCK FILTER DAM TYPE 2 WITH FILTER FABRIC OVERLAY IN AREA SHOWN.
5. PERFORM CONSTRUCTION ACTIVITIES FOR THE HOLY FAMILY CATHOLIC SCHOOL DRIVEWAY. WORK TO BE PERFORMED ON NON-SCHOOL DAYS.

- CONSTRUCTION LIMITS
- RFD3 — ROCK FILTER DAM TYPE 3
- ROW
- ROCK BERM
- 859 — PROP. CONTOURS
- 860 — EXIST. CONTOURS
- S — SILT FENCE
- MS — MULCH SOCK
- ROCK FILTER DAM TYPE 2 WITH FILTER FABRIC OVERLAY
- WORK AREA
- DISCHARGE PIPE

8.4.17
STATE OF TEXAS
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DEWATERING PLAN SWALE A

SHEET 194 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				194

SP-2016-0186D

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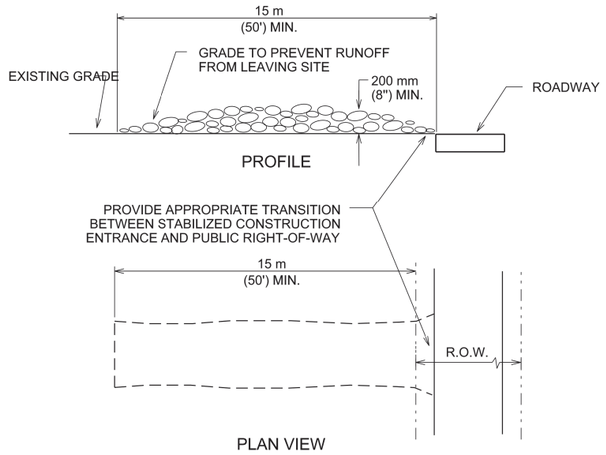
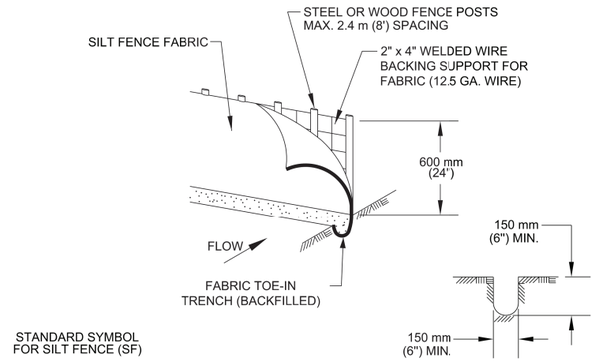


NOTES:

1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
3. THICKNESS: NOT LESS THAN 200 mm (8").
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		STABILIZED CONSTRUCTION ENTRANCE	
RECORD COPY SIGNED BY J. PATRICK MURPHY	5/23/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 641S-1



STANDARD SYMBOL
FOR SILT FENCE (SF)

SF
L=

1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 inches) DEPTH, USE STEEL POSTS.

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.

3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 inches) DEEP AND 150 mm (6 inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE , WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.

5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		SILT FENCE	
RECORD COPY SIGNED BY MORGAN BYARS	*09/01/2011* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 642S-1

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

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SITE PLAN APPROVAL Sheet 195of 273
FILE NUMBER: SP-2016-0186D APPLICATION DATE: 4/19/2016
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF
CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81,LDC)_____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A)_____ DWPZ ___ DDZ ___

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE:_____ ZONING: _____
Rev. 1_____ Correction 1 _____
Rev. 2_____ Correction 2 _____
Rev. 3_____ Correction 3 _____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE CURRENT AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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EROSION CONTROL DETAILS 1

SHEET 195 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				195

SP-2016-0186D

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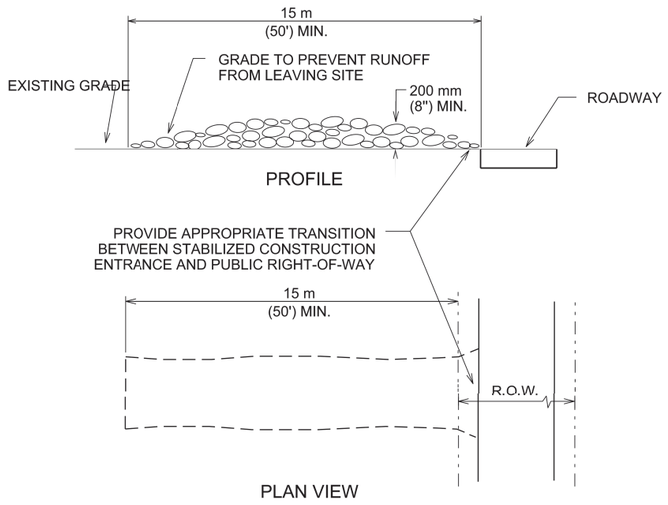
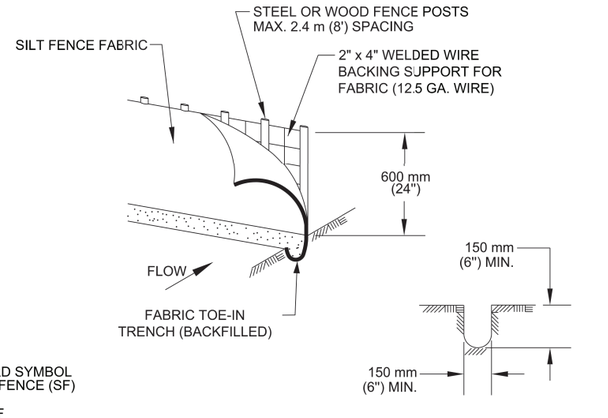


NOTES:

1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
3. THICKNESS: NOT LESS THAN 200 mm (8").
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		STABILIZED CONSTRUCTION ENTRANCE	
RECORD COPY SIGNED BY J. PATRICK MURPHY	5/23/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 641S-1



STANDARD SYMBOL
FOR SILT FENCE (SF)

SF
L=

1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 inches) DEPTH, USE STEEL POSTS.

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.

3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 inches) DEEP AND 150 mm (6 inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE , WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.

5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		SILT FENCE	
RECORD COPY SIGNED BY MORGAN BYARS	*09/01/2011* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 642S-1

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

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SITE PLAN APPROVAL Sheet 196 of 273
FILE NUMBER: SP-2016-0186D APPLICATION DATE: 6/19/2016
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF
CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81,LDC)_____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A)_____ DWPZ ____ DDZ ____

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE:_____ ZONING: _____
Rev. 1_____ Correction 1 _____
Rev. 2_____ Correction 2 _____
Rev. 3_____ Correction 3 _____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE. IF APPLICABLE, SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE CURRENT AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

Stantec
221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-6324 TBPLS # F-10194230
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EROSION CONTROL DETAILS 2

SHEET 196 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				196

SP-2016-0186D

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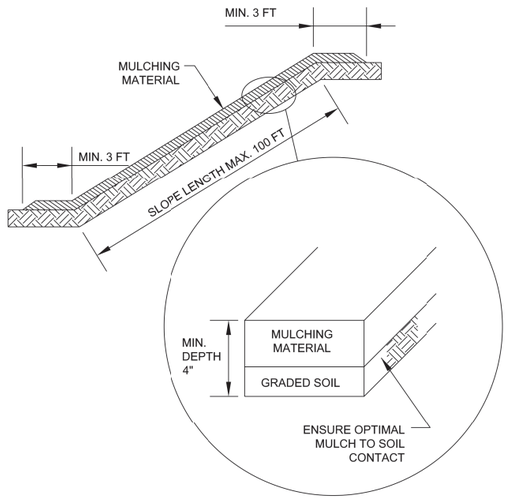


MULCHING MATERIAL

USE UNTREATED WOOD CHIPS PRODUCED FROM A 3 (THREE) INCH MINUS SCREENING PROCESS (EQUIVALENT TO TXDOT ITEM 161, COMPOST, SECTION 1.6.2.B, WOOD CHIP REQUIREMENTS).

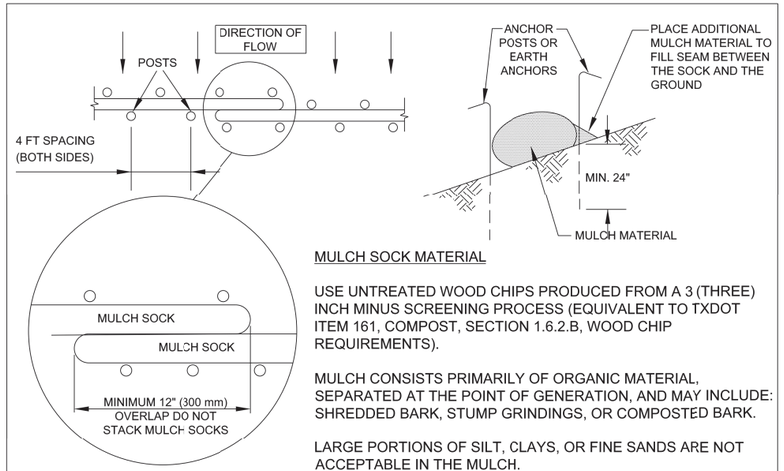
MULCH CONSISTS PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, OR COMPOSTED BARK.

LARGE PORTIONS OF SILT, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MULCH.

NOTES:

1. MULCHING ON SLOPES OF 3:1 OR FLATTER USE A MINIMUM DEPTH OF FOUR (4) INCHES.
2. MULCHING IS PERFORMED AFTER GRADING AND SOIL SURFACE PREPARATION IS COMPLETED. THE EFFECTIVENESS OF THE MULCHING MATERIAL DEPENDS ON GOOD CONTACT BETWEEN THE SOIL AND MULCHING MATERIAL. PROVIDE A SMOOTH MULCHING APPLICATION SURFACE BY TRACKING, ROLLING, RAKING, ETC. TO ENSURE OPTIMAL MULCH TO SOIL CONTACT.
3. APPLY MULCHING MATERIAL A MINIMUM OF THREE (3) FEET OVER THE SHOULDER AND BEYOND THE BASE OF THE SLOPE OR INTO EXISTING VEGETATION WHERE POSSIBLE TO PREVENT RILL FORMATION AND TRANSPORT OF THE MATERIAL. THE MULCHING MATERIAL SHALL BE PLACED EVENLY AND UNIFORMLY TO PROVIDE 100% COVERAGE.
4. MULCH MATERIAL MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH; IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.
5. THE MULCHED AREA SHALL BE INSPECTED REGULARLY AND AFTER EACH LARGE RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE INMMEDIATELY, WITH ADDITONAL MULCHING MATERIAL PLACED ON TOP OF THE MULCH TO REACH THE RECOMMENDED THICKNESS.
6. WHEN THE MULCH IS DECOMPOSED, CLOGGED WITH SEDIMENT, ERODED OR INEFFECTIVE, IT MUST BE REPLACED OR REPAIRED.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	MULCHING	
RECORD COPY SIGNED BY MORGAN BYARS 08/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 645S-1



MULCH SOCK MATERIAL

USE UNTREATED WOOD CHIPS PRODUCED FROM A 3 (THREE) INCH MINUS SCREENING PROCESS (EQUIVALENT TO TXDOT ITEM 161, COMPOST, SECTION 1.6.2.B, WOOD CHIP REQUIREMENTS).

MULCH CONSISTS PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, OR COMPOSTED BARK.

LARGE PORTIONS OF SILT, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MULCH.

NOTES:

1. STEEL OR WOOD POSTS WHICH SUPPORT THE MULCH SOCK SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 600mm (24 inches). IF WOOD POSTS CANNOT ACHIEVE 600mm (24 inches) DEPTH, USE STEEL POSTS. EARTH ANCHORS ARE ALSO ACCEPTABLE.
2. THE TOE OF THE MULCH SOCK SHALL BE PLACED SO THAT THE MULCH SOCK IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. IN ORDER TO PREVENT WATER FROM FLOWING BETWEEN THE JOINTS OF ADJACENT ENDS OFMULCH SOCKS, LAP THE ENDS OF ADJACENT MULCH SOCKS A MINIMUM OF 300mm (12 inches).
3. MULCH MATERIAL MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH; IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.
4. SOCK MATERIAL WILL BE 100% BIODEGRADABLE, PHOTODEGRADABLE, OR RECYCLABLE SUCH AS BURLAP, TWINE, UV PHOTOBIODEGRADABLE PLASTIC, POLYESTER, OR ANY OTHER ACCEPTABLE MATERIAL.
5. MULCH SOCKS SHOULD BE USED AT THE BASE OF SLOPES NO STEEPER THAN 2:1 AND SHOULD NOT EXCEED THE MAXIMUM SPACING CRITERIA PROVIDED IN CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL TABLE 1.4.5.F.1 FOR A GIVEN SLOPE CATEGORY.
6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	MULCH SOCK	
RECORD COPY SIGNED BY MORGAN BYARS 08/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 648S-1

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

FOR CITY USE ONLY:

SITE PLAN APPROVAL Sheet 197 of 273
FILE NUMBER: SP-2016-0186D APPLICATION DATE: 4/19/2016
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81,LDC)_____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A)_____ DWPZ ___ DDZ ___

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE:_____ ZONING: _____
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

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NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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EROSION CONTROL DETAILS 3

SHEET 197 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				197

SP-2016-0186D

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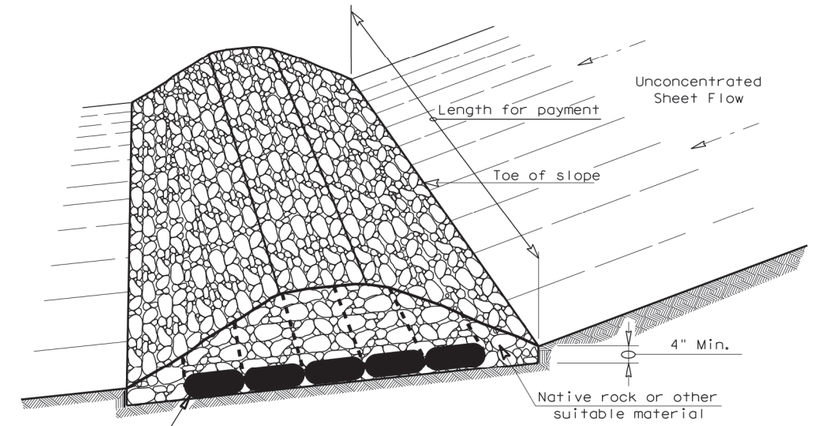
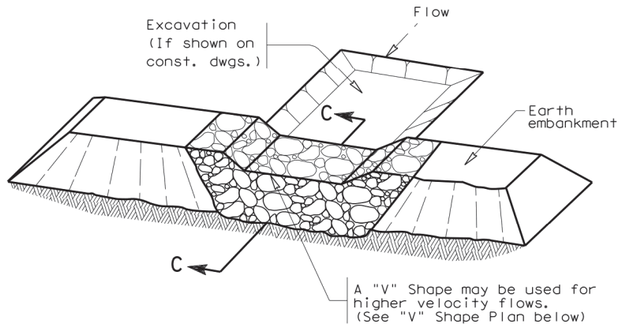


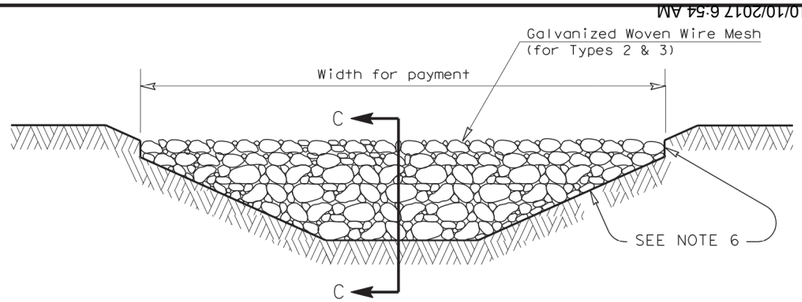
FILTER DAM AT TOE OF SLOPE

RFD1
TYPE 1



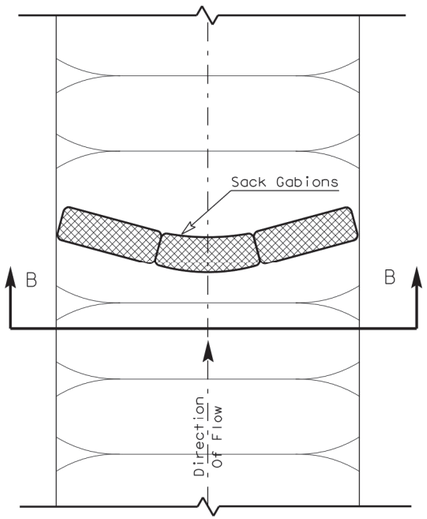
FILTER DAM AT SEDIMENT TRAP

RFD1 OR RFD2
TYPE 1 OR TYPE 2

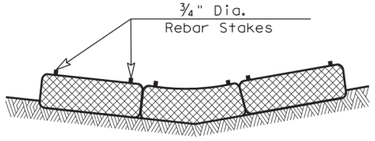


FILTER DAM AT CHANNEL SECTIONS

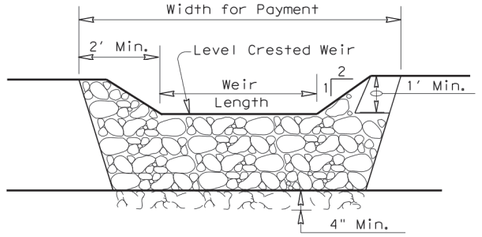
RFD1 OR RFD2 OR RFD3
TYPE 1 OR TYPE 2



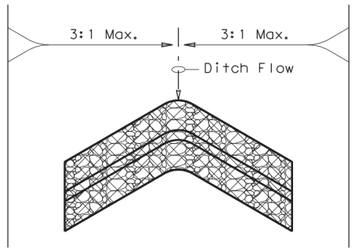
PLAN VIEW



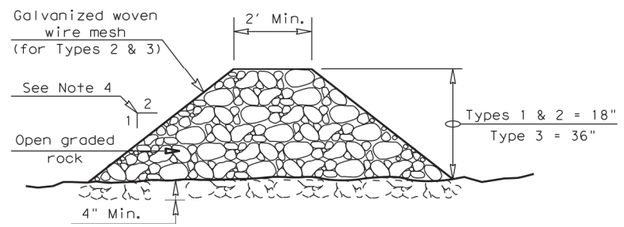
SECTION B-B



PROFILE



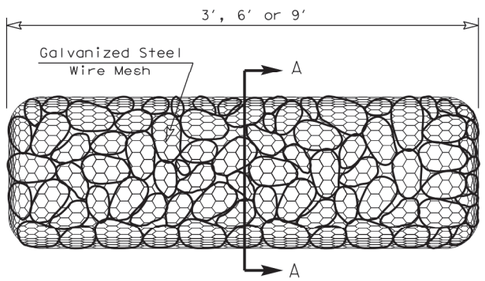
"V" SHAPE
(Plan View)



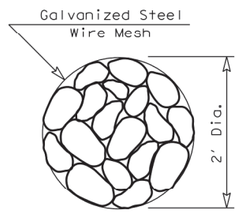
SECTION C-C

PLANS SHEET LEGEND

Type 1 Rock Filter Dam — RFD1
Type 2 Rock Filter Dam — RFD2
Type 3 Rock Filter Dam — RFD3



TYPE 4 (SACK GABIONS)



SECTION A-A

ROCK FILTER DAM USAGE GUIDELINES

Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT^2 of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

Type 1 (18" high with no wire mesh): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approx. 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions): Type 4 May be used in ditches and smaller channels to form an erosion control dam.

GENERAL NOTES

1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.
2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
6. Filter dams should be embedded a minimum of 4" into existing ground.
7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. In stream use the mesh should be secured or staked to the stream bed prior to aggregate placement.
9. Sack Gabions should be staked down with ¾" dia. rebar stakes.
10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

Texas Department of Transportation | Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

ROCK FILTER DAMS

EC(2)-93

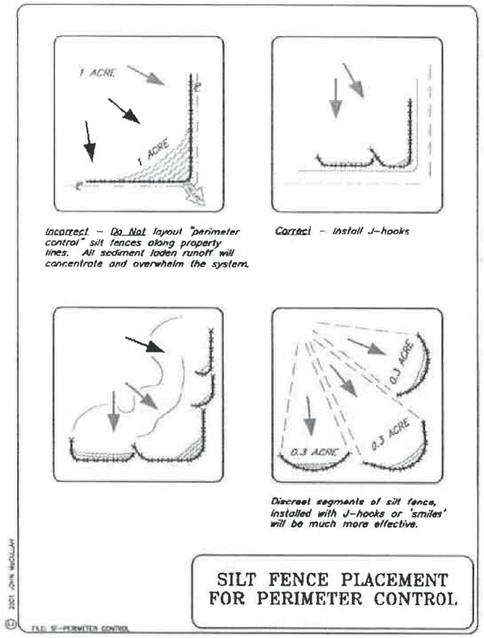
FILE: ec293.dgn	DN: TxDOT	CK: HEJ	DW: BD	CK:
©TxDOT June 1993	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.
				198

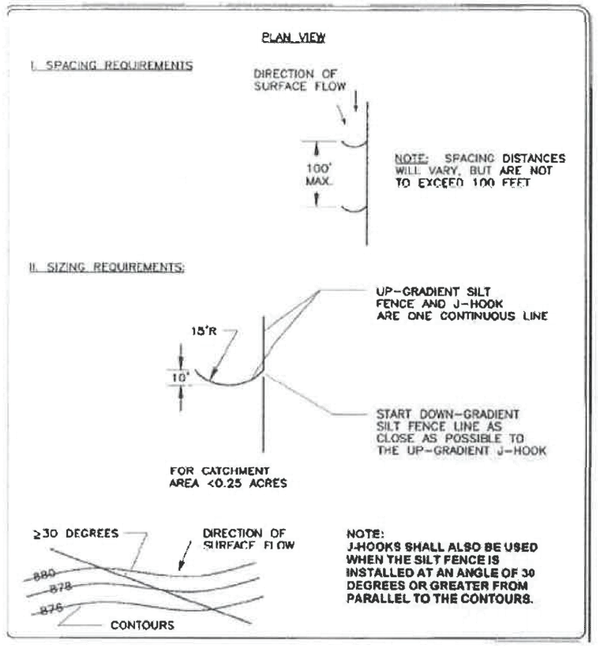
SHEET 198 OF 273

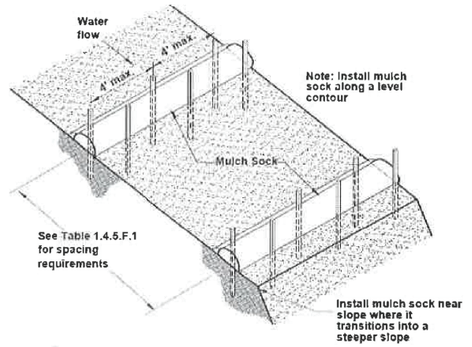
DATE:
FILE:

Bid 1710-1994

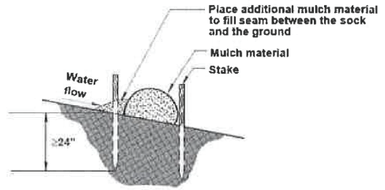
Williamson County, Texas



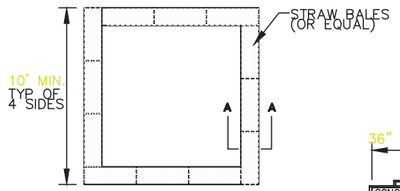




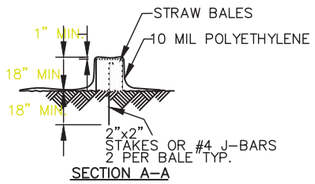
TYPICAL MULCH SOCK INSTALLATION
N.T.S.



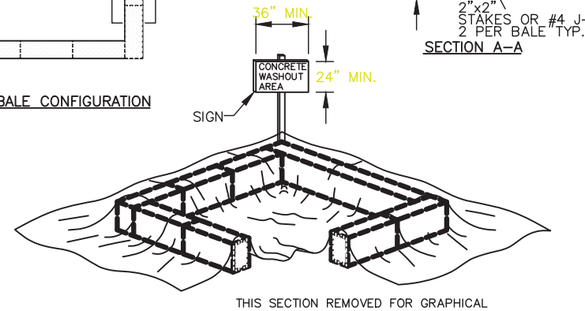
MULCH SOCK
N.T.S.



BALE CONFIGURATION



SECTION A–A



THIS SECTION REMOVED FOR GRAPHICAL REPRESENTATION ONLY. STRAW BALE PERIMETER SHALL BE CONTINUOUS.

NOTES:
1. FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT
2. CONCRETE WASHOUT SHALL BE LOCATED BEHIND CURB AND 50 FT. MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES

CONCRETE WASHOUT AREA
N.T.S.

1 OF 2

FOR CITY USE ONLY:

SITE PLAN APPROVAL Sheet 199 of 273
FILE NUMBER: SP-2016-01860 APPLICATION DATE: 4/19/2016
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81,LDC)_____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A)_____ DWPZ ____ DDZ ____

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE:_____ ZONING: _____
Rev. 1._____ Correction 1._____
Rev. 2._____ Correction 2._____
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8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
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EROSION CONTROL DETAILS 5

SHEET 199 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				199

SP-2016-0186D

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TREE NO.	DESCRIPTION	IS REMOVED?	ON APPENDIX F 8"–18"	NOT ON APPENDIX F 8"–18"	ON APPENDIX F 19" +	NOT ON APPENDIX F 19" +	HERITAGE 24" +	NOTES
R 934	13" LIVE OAK							
936 – (M)	20" LIVE OAK							
R 937	10" LIVE OAK	Y	10.00					
938	14" LIVE OAK	Y	14.00					
R 939	14" LIVE OAK	Y	14.00					
940 – (M)	20" CEDAR ELM	Y			20.00			
941	9" CEDAR ELM							
R 943	13" REDBUD	Y	13.00					
R 944	7" REDBUD	Y						
R 945	14" LIVE OAK							
R 946	14" LIVE OAK							
R 947	11" LIVE OAK							
R 948	16" LIVE OAK							
R 949	19" LIVE OAK							
R 950	9" LIVE OAK	Y	9.00					
R 951	7" LIVE OAK							
R 952	7" LIVE OAK	Y						
R 953	19" LIVE OAK							
R 954	9" LIVE OAK							
R 955	9" BURR OAK	Y	9.00					
R 956	12" LIVE OAK	Y	12.00					
R 957	15" LIVE OAK	Y	15.00					
958	17" LIVE OAK	Y	17.00					
R 959	11" LIVE OAK	Y	11.00					
960 – (M)	13.5" CEDAR ELM							
R 961	14" CEDAR							
R 962	9" CEDAR							
R 963	11" LIVE OAK							
R 964	8" LIVE OAK	Y	8.00					
R 965	7" LIVE OAK	Y						
R 966	12" LIVE OAK	Y	12.00					
R 967 – (M)	14" LIVE OAK	Y	14.00					
R 968 – (M)	12.5" LIVE OAK	Y	12.5					
R 969	12" LIVE OAK	Y	12.00					
R 970	10" LIVE OAK	Y	10.00					
R 971	9" LIVE OAK							
R 972	8" LIVE OAK							
R 976	8" BURR OAK							
R 977 – (M)	12" BURR OAK	Y	12.00					
R 978 – (M)	15" BURR OAK	Y	15.00					
R 979 – (M)	13.5" BURR OAK							
R 980 – (M)	13.5" BURR OAK	Y	13.5					
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986 – (M)	12" BURR OAK							
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990 H – (M)	26.5" BURR OAK							
R 991	8" BURR OAK	Y	8.00					
R 992	8" BURR OAK	Y	8.00					
R 993	15" PECAN							
R 994	11" BURR OAK	Y	11.00					
R 995	9" BURR OAK							
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R 997	14" REDBUD							
R 998	13" REDBUD							
R 999	9" BURR OAK	Y	9.00					
R 1000	15" REDBUD							
R 1002	18" REDBUD							
R 1003	12" REDBUD							
R 1004	10" REDBUD	Y	10.00					
R 1005	9" REDBUD							
R 1006	10" REDBUD							
R 1007	8" CEDAR ELM	Y	8.00					
R 1008	7" REDBUD							
R 1009	8" LIVE OAK							
1010	9" CEDAR ELM	Y	9.00					
1011 H	25" LIVE OAK	Y					25.00	
1012	13" CEDAR ELM	Y	13.00					
1014	23" POST OAK	Y			23.00			
1022 H	24" LIVE OAK							
1023	17" LIVE OAK							
1024 – (M)	15" CEDAR ELM							
1025	13" CEDAR ELM							
1026	9" CEDAR ELM							
1027 – (M)	18" CEDAR ELM							
1028	18" POST OAK							
1029	11" CEDAR ELM							
1030	8" CEDAR ELM							
1031	10" CEDAR ELM							
1032	10" LIVE OAK							ILL
1033	10" LIVE OAK							ILL
1034	8" CEDAR ELM							
1035	16" LIVE OAK							
1036	14" CEDAR ELM							

TREE NO.	DESCRIPTION	IS REMOVED?	ON APPENDIX F 8"–18"	NOT ON APPENDIX F 8"–18"	ON APPENDIX F 19" +	NOT ON APPENDIX F 19" +	HERITAGE 24" +	NOTES
1036	14" CEDAR ELM							
1037	15" LIVE OAK	Y	15.00					
1038	15" LIVE OAK	Y	15.00					
1039	9" CEDAR ELM	Y	9.00					
1040	8" CEDAR ELM	Y	8.00					
1041	14" LIVE OAK	Y	14.00					
1042	16" CEDAR ELM	Y	16.00					
1043	10" CEDAR ELM							
1044	9" CEDAR ELM							
1050 – (M)	13.5" CEDAR ELM							
1051	15" CEDAR ELM							
1052 – (M)	16.5" CEDAR ELM							
R 1100 – (M)	22" PECAN							
R 1101	11" CEDAR ELM							
R 1113	12" CEDAR ELM	Y	12.00					
R 1118 – (M)	9.5" CEDAR ELM	Y	9.50					
R 1119 – (M)	18" CEDAR ELM	Y	18.00					
R 1120	7" CEDAR ELM	Y						
R 1121 – (M)	12.5" CEDAR ELM							
R 1122 – (M)	21" CEDAR ELM							
R 1123	18" CEDAR ELM		18.00					
R 1124 – (M)	23.5" POST OAK							
1125	12" POST OAK							
1126	9" CEDAR ELM							
R 1128	17" POST OAK	Y	17.00					
R 1129	10" MESQUITE							
R 1130	9" CEDAR ELM							
R 1131	6" CEDAR ELM							
R 1132	7" CEDAR ELM							
R 1134	8" CEDAR ELM							
RH 1139– (M)	29.5" LIVE OAK	Y					29.50	
R 1140 – (M)	11" CEDAR ELM	Y	11.00					
R 1141	12" LIVE OAK	Y	12.00					
R 1142	10" LIVE OAK	Y	10.00					
R 1143	7" CEDAR ELM							
R 1144	8" LIVE OAK							
R 1145	8" CEDAR ELM							
R 1146	7" CEDAR ELM							
R 1149	8" CEDAR ELM							
R 1150	11" CEDAR ELM							
R 1151	8" CEDAR ELM							
R 1152	15" CEDAR ELM							
R 1153	17" CEDAR ELM							
R 1155	14" LIVE OAK	Y	14.00					
R 1156 – (M)	20" LIVE OAK	Y			20.00			
R 1157	18" LIVE OAK	Y	18.00					
R 1158	10" LIVE OAK	Y	10.00					
R 1159 – (M)	12" LIVE OAK							
R 1160	17" POST OAK	Y	17.00					
R 1161	20" LIVE OAK							
1162	8" CEDAR ELM							
R 1163 – (M)	15" CEDAR ELM							
1176 – (M)	16" CEDAR ELM	Y	16.00					
1177 – (M)	15" CEDAR ELM	Y	15.00					
R 1178 – (M)	13" CEDAR ELM	Y	13.00					
R 1179 – (M)	17" CEDAR ELM	Y	17.00					
1180 – (M)	12" CEDAR ELM	Y	12.00					
R 1181 – (M)	17.5" CEDAR ELM	Y	17.50					
R 1182 – (M)	17.5" CEDAR ELM	Y	17.50					
1183	11" CEDAR ELM							
R 1184	8" CEDAR ELM							
1185 – (M)	14" CEDAR ELM							
1186 – (M)	11.5" CEDAR ELM							
1188 – (M)	10.5" CEDAR ELM							
R 1200	10" CEDAR ELM							
1205	11" CEDAR ELM							
1206 – (M)	15" CEDAR ELM							
1207 – (M)	12" CEDAR ELM							
1214 – (M)	12" CEDAR ELM							
R 1215 H – (M)	25.5" CEDAR ELM							
1216 – (M)	8.5" CEDAR ELM							
1217 – (M)	9" CEDAR ELM							

R DENOTES TREES LOCATED WITHIN THE RIGHT–OF–WAY
(M) DENOTES MULTI–TRUNK TREES
H DENOTES HERITAGE TREES

TREE SURVEY WAS PERFORMED DURING THE MONTH OF MARCH 2015

URBAN FORESTRY SUMMARY	
TOTAL TREE INCHES SURVEYED WITHIN LIMITS OF CONSTRUCTION	2048.5 "
TOTAL TREE INCHES REMOVED, 8"–18" ON APPENDIX F	715"
TOTAL TREE INCHES REMOVED, 8"–18" NOT ON APPENDIX F	0"
TOTAL TREE INCHES REMOVED, 19"+ ON APPENDIX F	63"
TOTAL TREE INCHES REMOVED, 19"+ NOT ON APPENDIX F	0"
TOTAL TREE INCHES REMOVED 24" AND GREATER	54.5"

MITIGATION PERCENTAGE TABLE

CATERGORY		ON APPENDIX F 8"–18"	NOT ON APPENDIX F 8"–18"	ON APPENDIX F 19" +	NOT ON APPENDIX F 19" +	HERITAGE
STANDARD MITIGATION FOR ALL TREES	TOTAL INCHES	715.00	0.00	63.00	0.00	54.50
	MITIGATION PERCENTAGE	50%	25%	100%	50%	300%
	INCHES TO BE REPLACED	357.50	0.0	63.00	0.0	163.50
ADDITIONAL MITIGATION FOR ROW TREES	TOTAL INCHES	507.5	0	20	0	29.5
	ADDITIONAL MITIGATION	50%	75%	0%	50%	0%
	INCHES TO BE REPLACED	253.75	0.00	0.00	0.00	0.00
TOTAL CALIPER INCHES REMOVED						832.50
TOTAL CALIPER INCHES REQUIRED TO BE MITIGATED						837.75

GENERAL TREE NOTES

1. ALL AREAS OF NATIVE VEGETATION BEYOND THE LIMITS OF CONSTRUCTION SHALL BE LEFT UNDISTURBED.
2. EXISTING TREES TO REMAIN SHALL BE PROTECTED BY TREE PROTECTIVE FENCING BEFORE CONSTRUCTION BEGINS. NO EQUIPMENT OR MATERIALS SHALL BE STORED, OPERATED OR MAINTAINED WITHIN THE FENCE AREA. FENCES SHALL BE AT THE DRIPLINE AND COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES. NO FIRES OR CLEANING OF EQUIPMENT TRUCKS WILL BE ALLOWED IN THESE AREAS.
3. ALL DISTURBED AREAS SHALL BE REVEGETATED AND WATERED PER SPECIFICATION.
4. TREE SURVEY WAS PERFORMED DURING THE MONTH OF MARCH 2015.

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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TBPE # F-6324 TBPLS # F-10194230
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TREE LISTS

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				200

SP-2016-0186D

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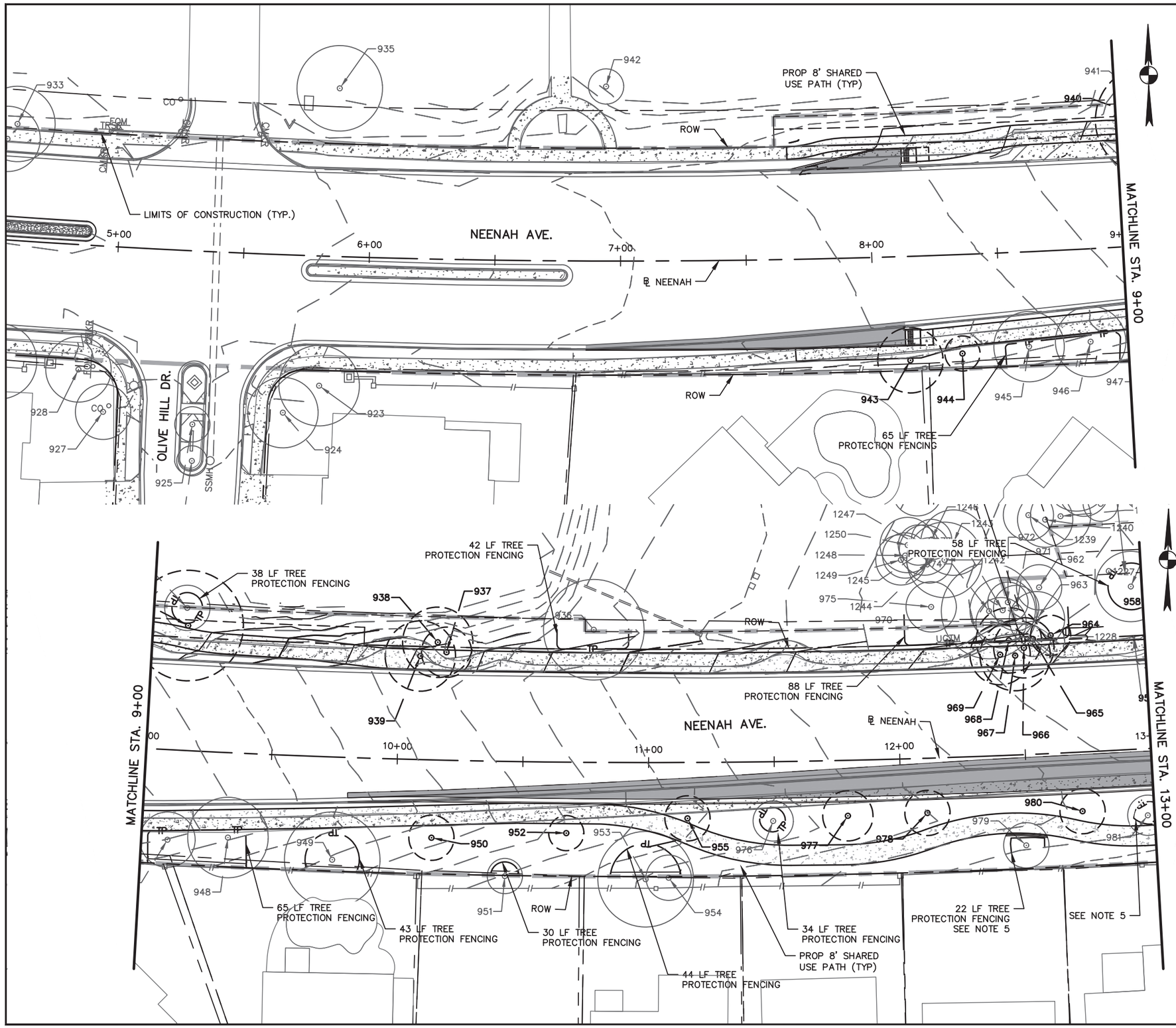

40 0 20 40

1" = 40'

NOTES:
1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. REFER TO TREE PRESERVATION DETAILS FOR MORE INFORMATION.
5. CONTRACTOR SHALL PERFORM GRADING BY HAND WITHIN CRITICAL ROOT ZONES.

LEGEND

- TREE TO BE REMOVED
- TREE TO REMAIN
- TP — TREE PROTECTION FENCING
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- LIMITS OF CONSTRUCTION

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
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TREE PRESERVATION PLAN
STA. 5+00 TO STA. 13+00

SHEET 201 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				201

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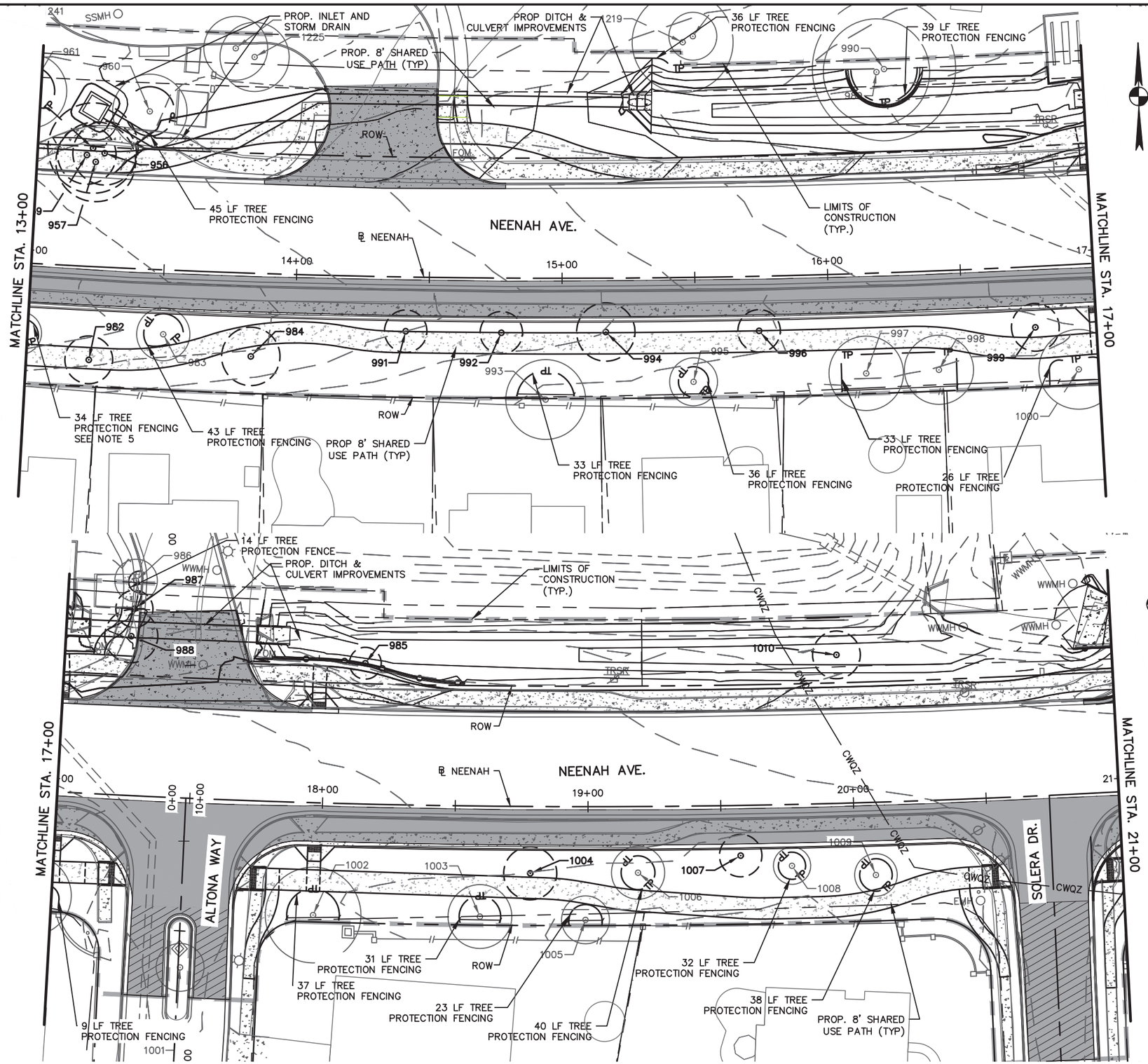

40 0 20 40

1" = 40'

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. REFER TO TREE PRESERVATION DETAILS FOR MORE INFORMATION.
5. CONTRACTOR SHALL PERFORM GRADING BY HAND WITHIN CRITICAL ROOT ZONES.

LEGEND

- TREE TO BE REMOVED
- TREE TO REMAIN
- TP — TREE PROTECTION FENCING
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- LIMITS OF CONSTRUCTION

8-4-17
STATE OF TEXAS
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WILLIAMSON COUNTY 1848

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TREE PRESERVATION PLAN STA. 13+00 TO STA. 21+00

SHEET 202 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				202

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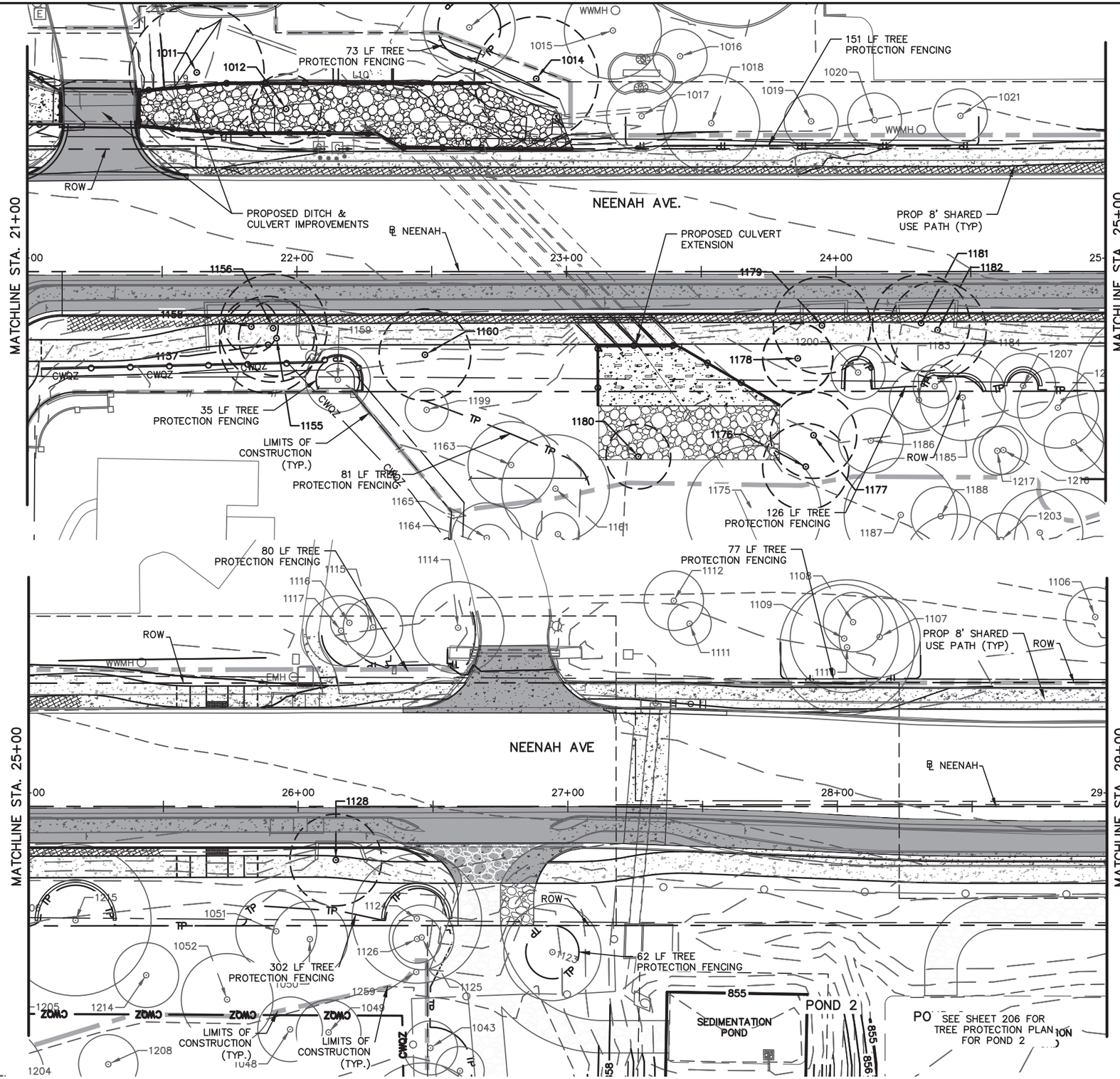

40 0 20 40

1" = 40'

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. REFER TO TREE PRESERVATION DETAILS FOR MORE INFORMATION.
5. CONTRACTOR SHALL PERFORM GRADING BY HAND WITHIN CRITICAL ROOT ZONES.

LEGEND

- TREE TO BE REMOVED
- TREE TO REMAIN
- TP — TREE PROTECTION FENCING
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- LIMITS OF CONSTRUCTION

8-4-17
STATE OF TEXAS
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TREE PRESERVATION PLAN
STA. 21+00 TO STA. 29+00

SHEET 203 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				203

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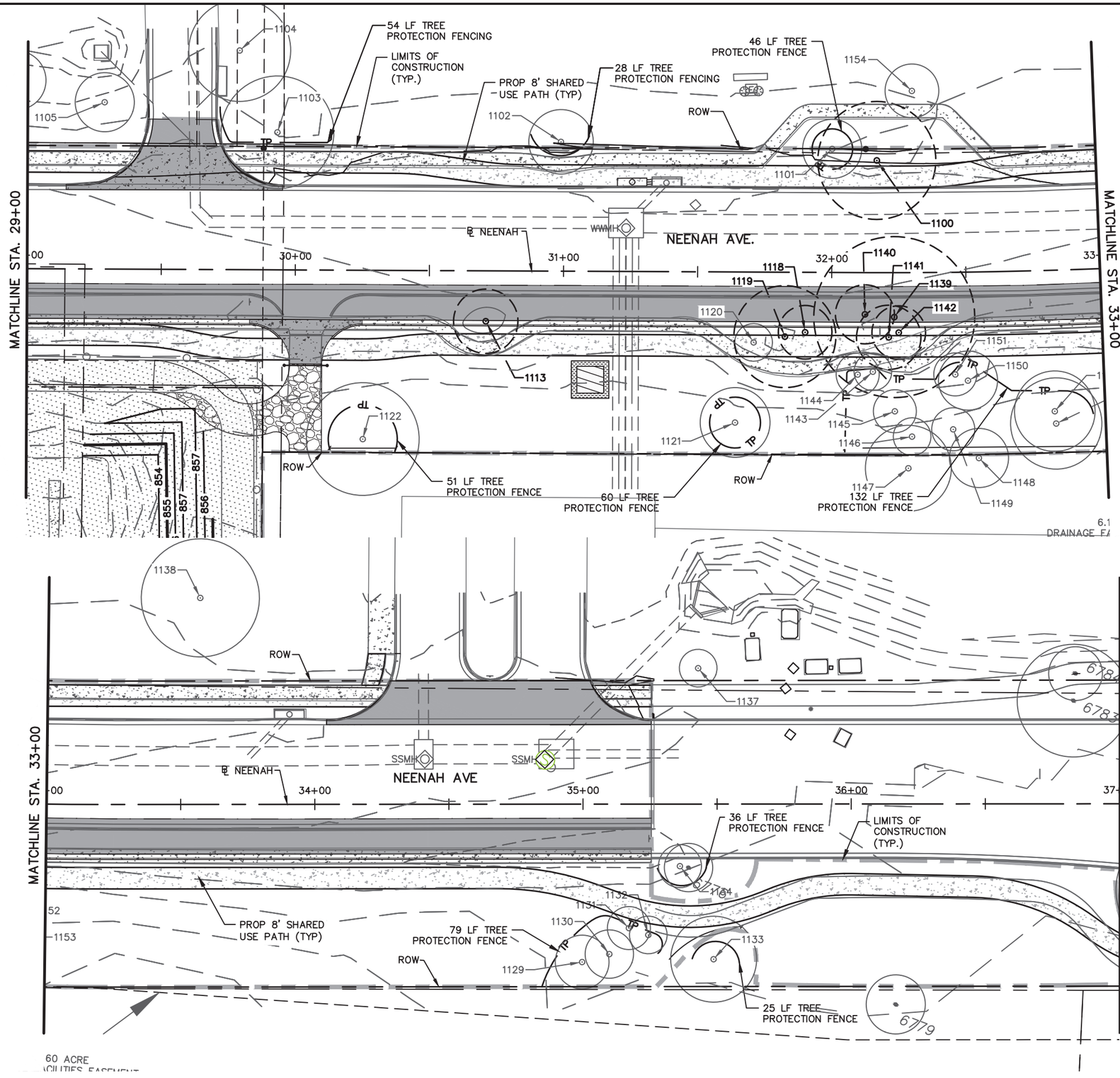

40 0 20 40

1" = 40'

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
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3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. REFER TO TREE PRESERVATION DETAILS FOR MORE INFORMATION.
5. CONTRACTOR SHALL PERFORM GRADING BY HAND WITHIN CRITICAL ROOT ZONES.
6. CONTOURS EAST OF NEENAH ℄ STA. 35+25.47 WERE PROVIDED BY OTHERS AND REFLECT PRE ROADWAY EXTENSION CONTOURS AND VEGETATION. CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS AND NOTIFY ENGINEER IF ADDITIONAL TREES ARE PRESENT WITHIN LIMITS OF CONSTRUCTION.

LEGEND

- TREE TO BE REMOVED
- TREE TO REMAIN
- TP — TREE PROTECTION FENCING
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- LIMITS OF CONSTRUCTION

8.4.17
STATE OF TEXAS
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TREE PRESERVATION PLAN
STA. 29+00 TO 37+00

SHEET 204 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				204

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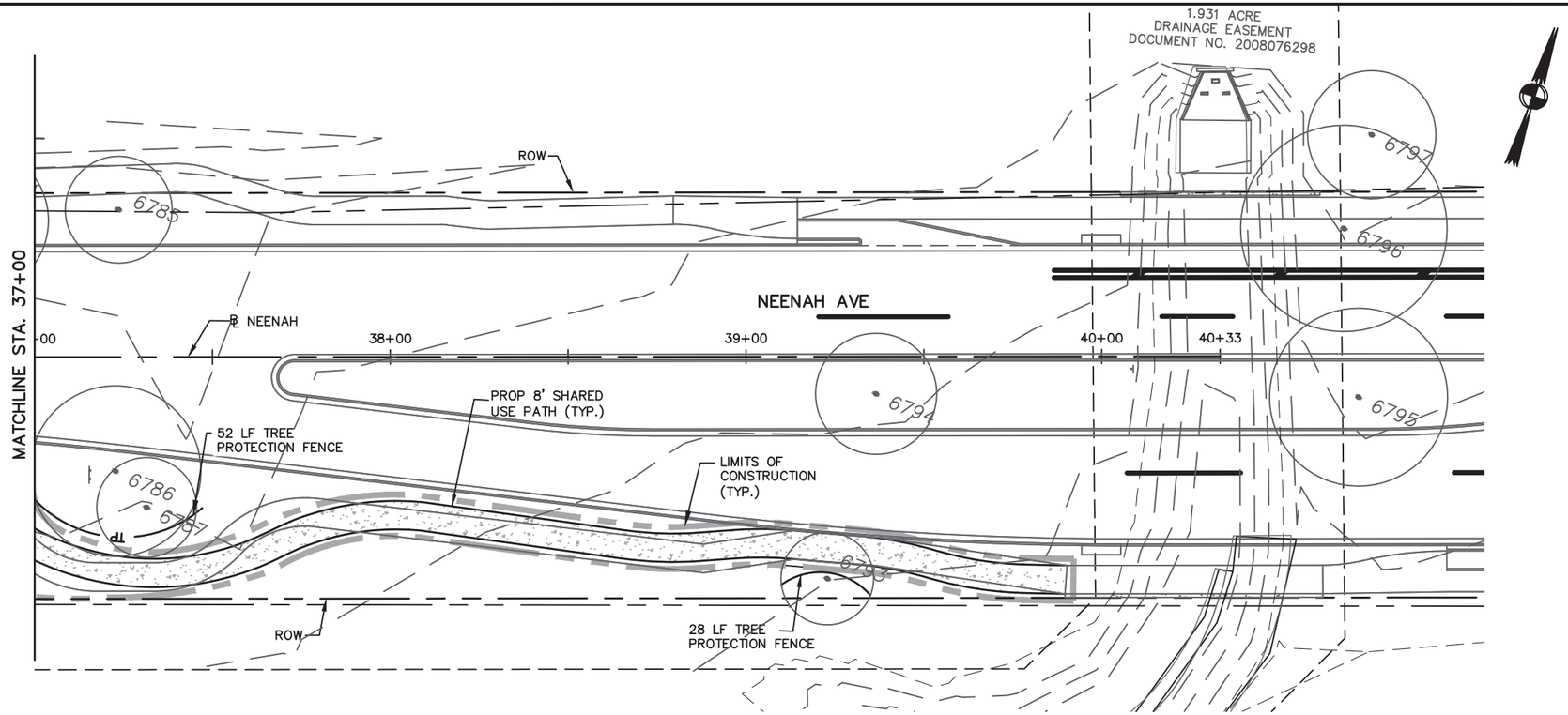

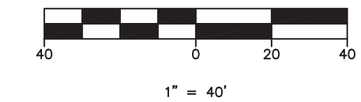

1" = 40'

NOTES:

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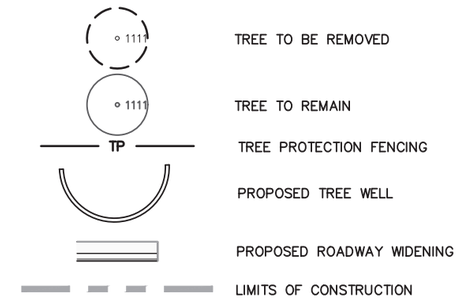
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. REFER TO TREE PRESERVATION DETAILS FOR MORE INFORMATION.
5. CONTRACTOR SHALL PERFORM GRADING BY HAND WITHIN CRITICAL ROOT ZONES.
6. CONTOURS EAST OF NEENAH ℄ STA. 35+25.47 WERE PROVIDED BY OTHERS AND REFLECT PER ROADWAY EXTENSION CONTOURS AND VEGETATION. CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS AND NOTIFY ENGINEER IS ADDITIONAL TREES ARE PRESENT WITHIN LIMITS OF CONSTRUCTION.

LEGEND



8.4.17
STATE OF TEXAS
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TREE PRESERVATION PLAN STA. 37+00 TO END

SHEET 205 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				205

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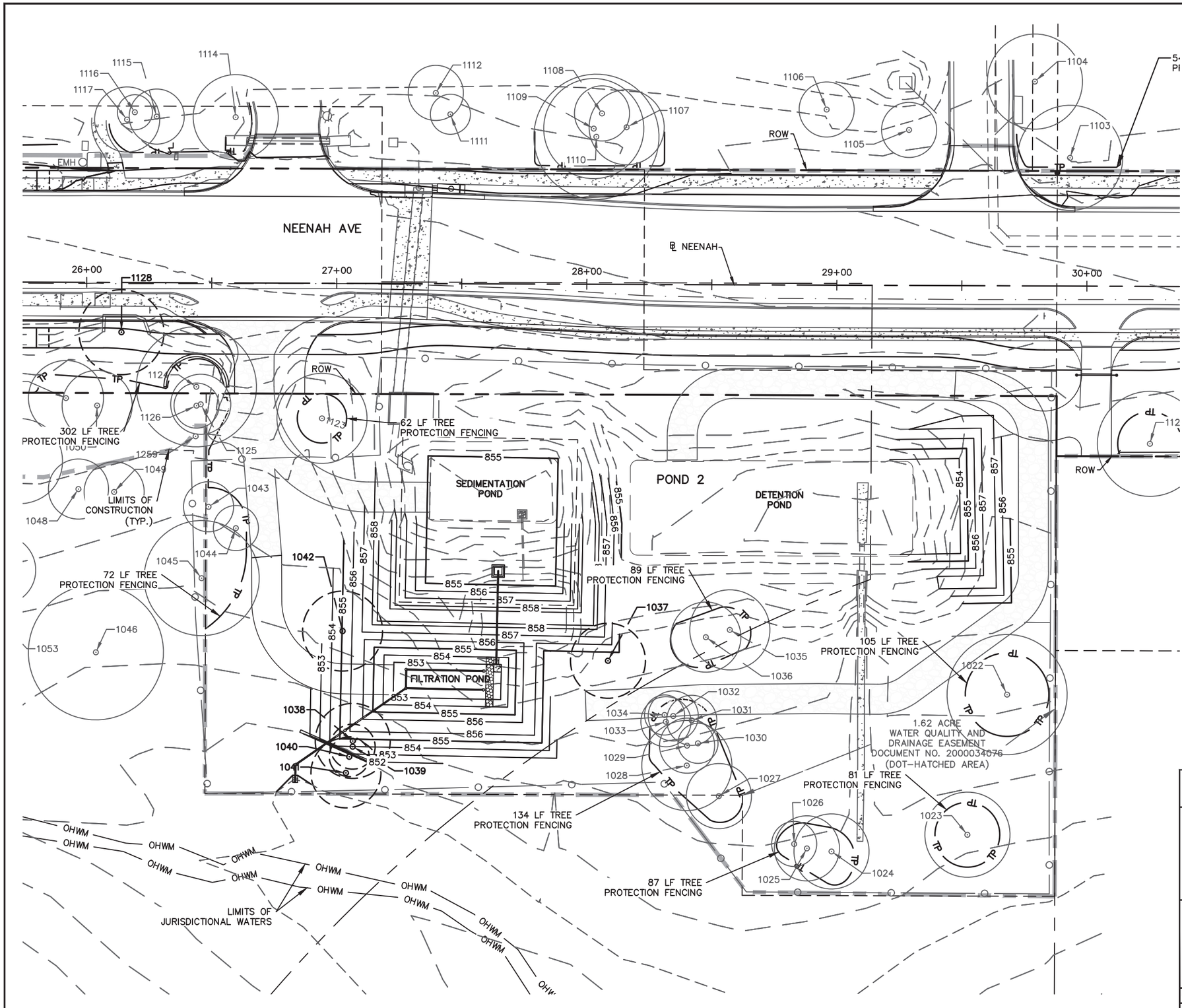

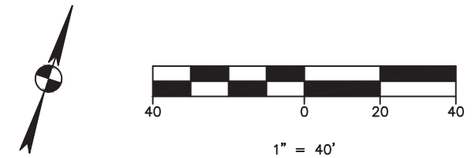

NOTES:

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4. REFER TO TREE PRESERVATION DETAILS FOR MORE INFORMATION.
5. CONTRACTOR SHALL PERFORM GRADING BY HAND WITHIN CRITICAL ROOT ZONES.

LEGEND

- TREE TO BE REMOVED
- TREE TO REMAIN
- TP — TREE PROTECTION FENCING
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- FEMA — FEMA 100 YR FLOODPLAIN
- OHWM — ORDINARY HIGH WATER MARK
- LIMITS OF CONSTRUCTION

8.4.17
STATE OF TEXAS
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WILLIAMSON COUNTY
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TREE PRESERVATION PLAN WATER QUALITY & DETENTION POND 2

SHEET 206 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				206

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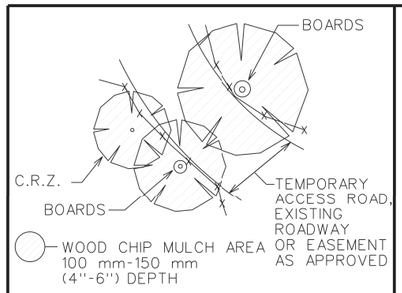
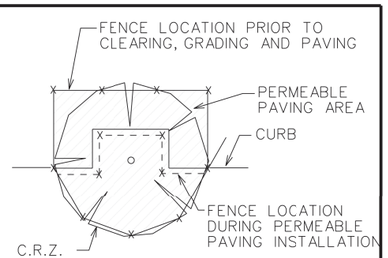
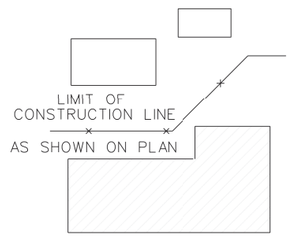


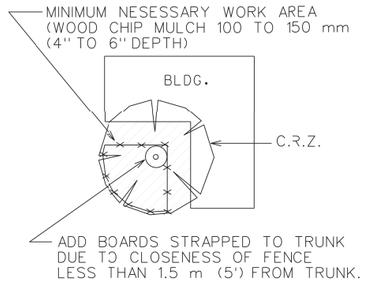
LINEAR CONSTRUCTION THROUGH TREES



TREES IN PAVING AREA

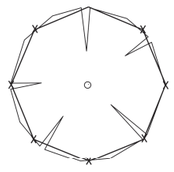


NATURAL AREAS

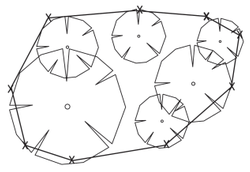


TREES NEAR CONSTRUCTION ACTIVITY

CRITICAL ROOT ZONE (C.R.Z.)
RADIUS = 12 mm PER mm
(1 FT. PER INCH)
OF TRUNK DIAMETER

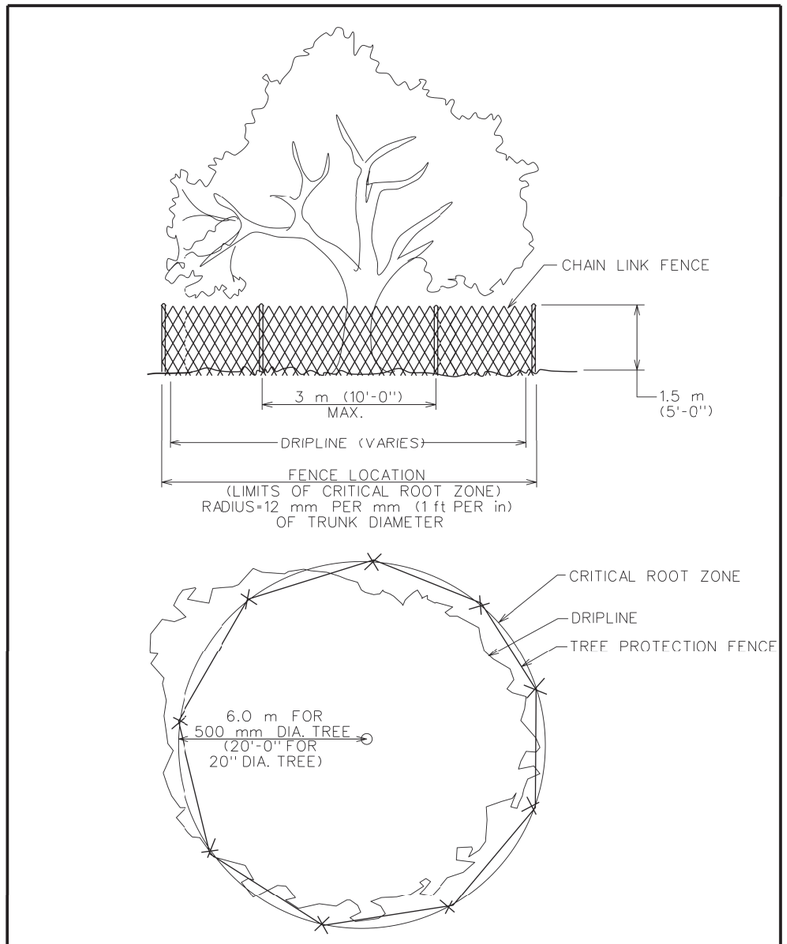


INDIVIDUAL TREE



GROUP OF TREES

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TREE PROTECTION FENCE LOCATIONS	
RECORD COPY SIGNED BY J. PATRICK MURPHY	*11/15/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-1



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TREE PROPTECTION FENCE TYPE A - CHAIN LINK	
RECORD COPY SIGNED BY J. PATRICK MURPHY	*11/15/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-2

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

FOR CITY USE ONLY:

SITE PLAN APPROVAL Sheet 207of 273
FILE NUMBER: SP-2016-0186D APPLICATION DATE: 4/19/2016
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF
CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81,LDC)_____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A)_____ DWPZ ___ DDZ ___

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE:_____ ZONING: _____
Rev. 1._____ Correction 1._____
Rev. 2._____ Correction 2._____
Rev. 3._____ Correction 3._____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE CURRENT AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

Stantec
221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-6324 TBPLS # F-10194230
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TREE PRESERVATION DETAILS 1

SHEET 207 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				207

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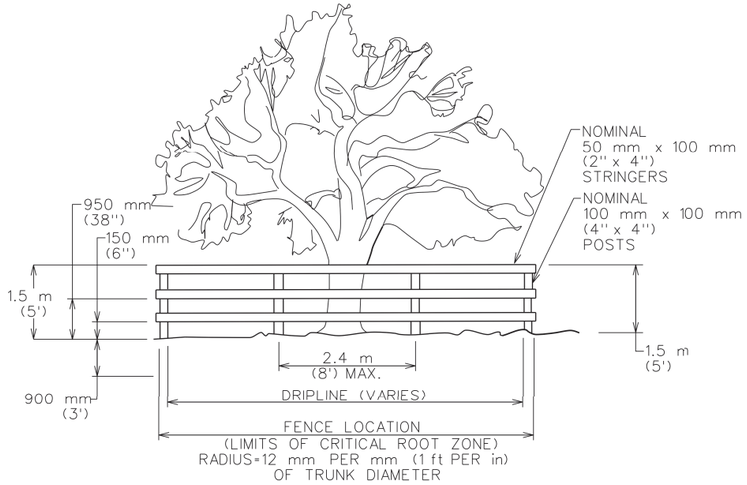
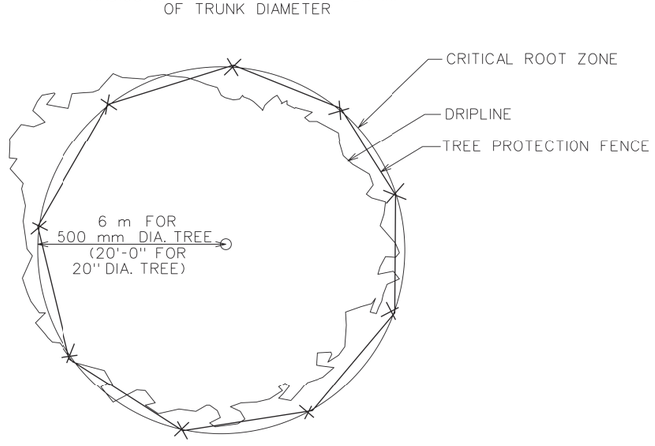
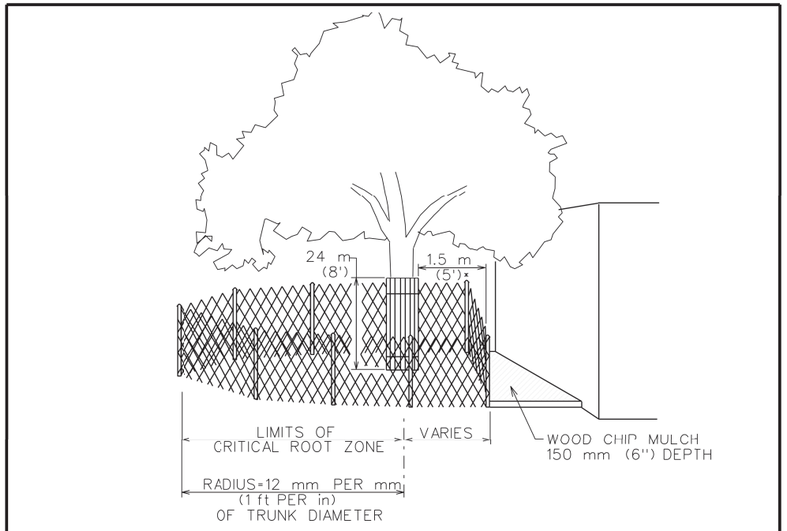
SP-2016-0186D

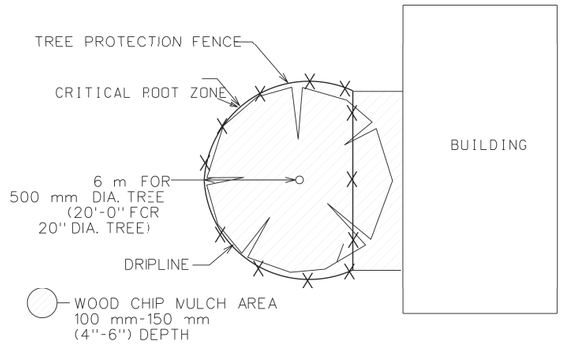




CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TREE PROTECTION FENCE TYPE B - WOOD	STANDARD NO.
RECORD COPY SIGNED BY J. PATRICK MURPHY	*11/15/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	610S-3



*AS NEEDED TO PROVIDE MINIMUM NECESSARY WORK SPACE.
IF LESS THAN 1.5 m (5'), THEN ADD BOARDS STRAPPED TO TRUNK.



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TREE PROTECTION FENCE MODIFIED TYPE A - CHAIN LINK	STANDARD NO.
RECORD COPY SIGNED BY J. PATRICK MURPHY	*11/15/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	610S-4

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

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SITE PLAN APPROVAL Sheet 208 of 273
FILE NUMBER: SP-2016-0186D APPLICATION DATE: 4/19/2016
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81,LDC) _____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A) _____ DWPZ ___ DDZ ___

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING: _____
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE CURRENT AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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Austin, Texas 78701
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TREE PRESERVATION DETAILS 2

SHEET 208 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				208

SP-2016-0186D

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*AS NEEDED TO PROVIDE MINIMUM NECESSARY WORK SPACE.
IF LESS THAN 1.5 m (5'), THEN ADD BOARDS STRAPPED TO TRUNK.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TREE PROTECTION FENCE MODIFIED TYPE B - WOOD	
RECORD COPY SIGNED BY J. PATRICK MURPHY	*11/15/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-5

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

FOR CITY USE ONLY:

SITE PLAN APPROVAL Sheet 209of 273
FILE NUMBER: SP-2016-0186D APPLICATION DATE: 4/19/2016
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81,LDC) _____ CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A)_____DWPZ ___DDZ___

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING: _____
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NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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221 West Sixth Street, Suite 600
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TREE PRESERVATION DETAILS 3

SHEET 209 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				209

SP-2016-0186D

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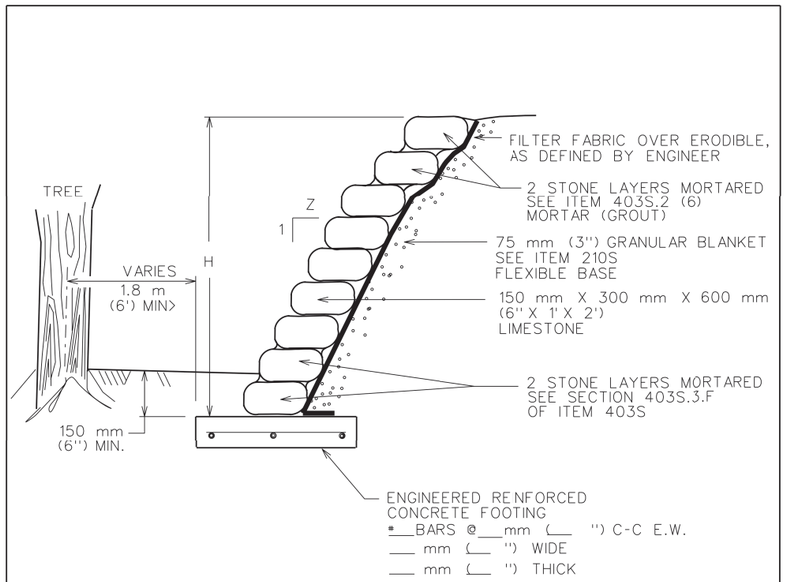


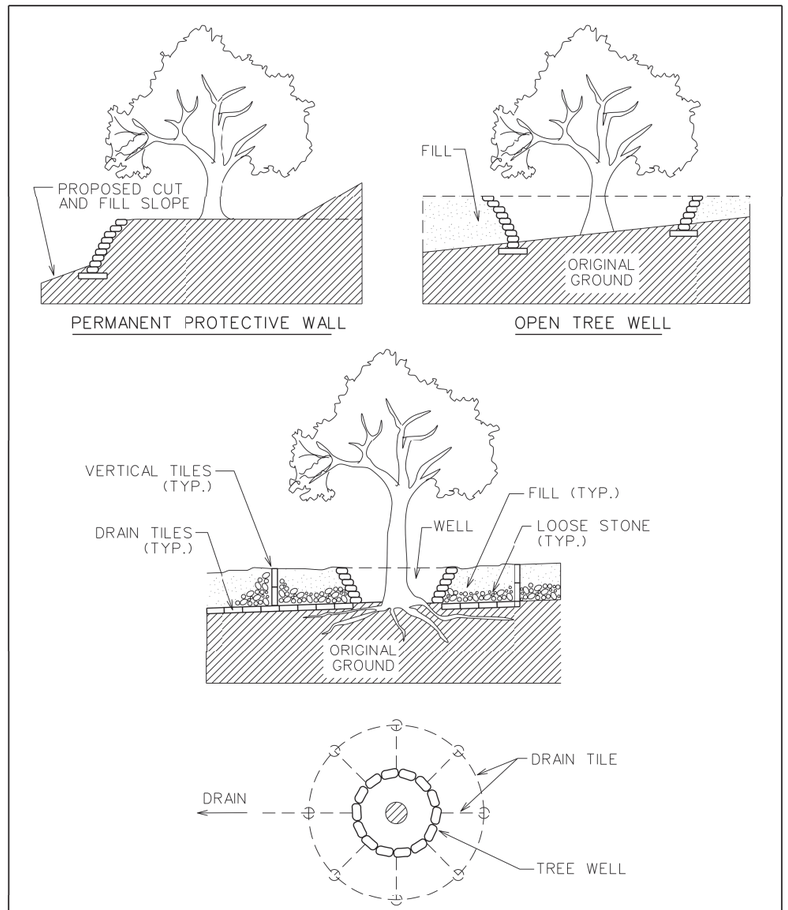
THIS STANDARD APPLIES ONLY UNDER THE FOLLOWING CONDITIONS:

A. H AND Z ARE SPECIFIED ON THE DRAWING.
B. GROUNDWATER IS NO HIGHER THAN THE BOTTOM OF THE FOOTING.
C. THE MATERIAL BELOW THE FOOTING IS FIRM AND STABLE.
D. THE MATERIAL BEHIND THE WALL HAS A LEVEL SURFACE.
E. THE MATERIAL IN FRONT OF THE WALL HAS A SLOPE NO STEEPER THAN 4 HORIZONTAL TO 1 VERTICAL.
F. THE FACE OF THE WALL IS NO STEEPER THAN 1 HORIZONTAL TO 2 VERTICAL.
G. SURCHARGE LOADS BEHIND THE WALL ARE NO CLOSER THAN DISTANCE H FROM THE TOP OF WALL.

NOTES:

1. DESIGN AND CONSTRUCTION OF ROCK WALL SHALL CONFORM TO THE REQUIREMENTS OF CITY CODE 16-7-2, PLACEMENT OF FENCES IN STREET CORNER AREAS, AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL FOR MINIMIM SIGHT DISTANCE.
2. CONCRETE SHALL CONFORM TO ITEM 403S, "CONCRETE FOR STRUCTURES".

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW		SLOPE PROTECTION AND TREE WELLS	
RECORD COPY SIGNED BY J. PATRICK MURPHY	*03/13/06* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-6 1 OF 2



PERMANENT PROTECTIVE WALL

OPEN TREE WELL

TREE WELL WITH RAISED GRADE

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW		SLOPE PROTECTION AND TREE WELLS	
RECORD COPY SIGNED BY J. PATRICK MURPHY	*03/13/06* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-6 2 OF 2

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

FOR CITY USE ONLY:

SITE PLAN APPROVAL Sheet 210 of 273
FILE NUMBER: SP-2016-0186D APPLICATION DATE: 4/19/2016
APPROVED BY COMMISSION ON: _____ UNDER SECTION _____ OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81,LDC)_____ CASE MANAGER_____
PROJECT EXPIRATION DATE (ORD.#970905-A)_____ DWPZ ___ DDZ ___

Director, Planning and Development Review Department
RELEASED FOR GENERAL COMPLIANCE:_____ ZONING: _____
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

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NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

Stantec
221 West Sixth Street, Suite 600
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TREE PRESERVATION DETAILS 4

SHEET 210 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				210

SP-2016-0186D

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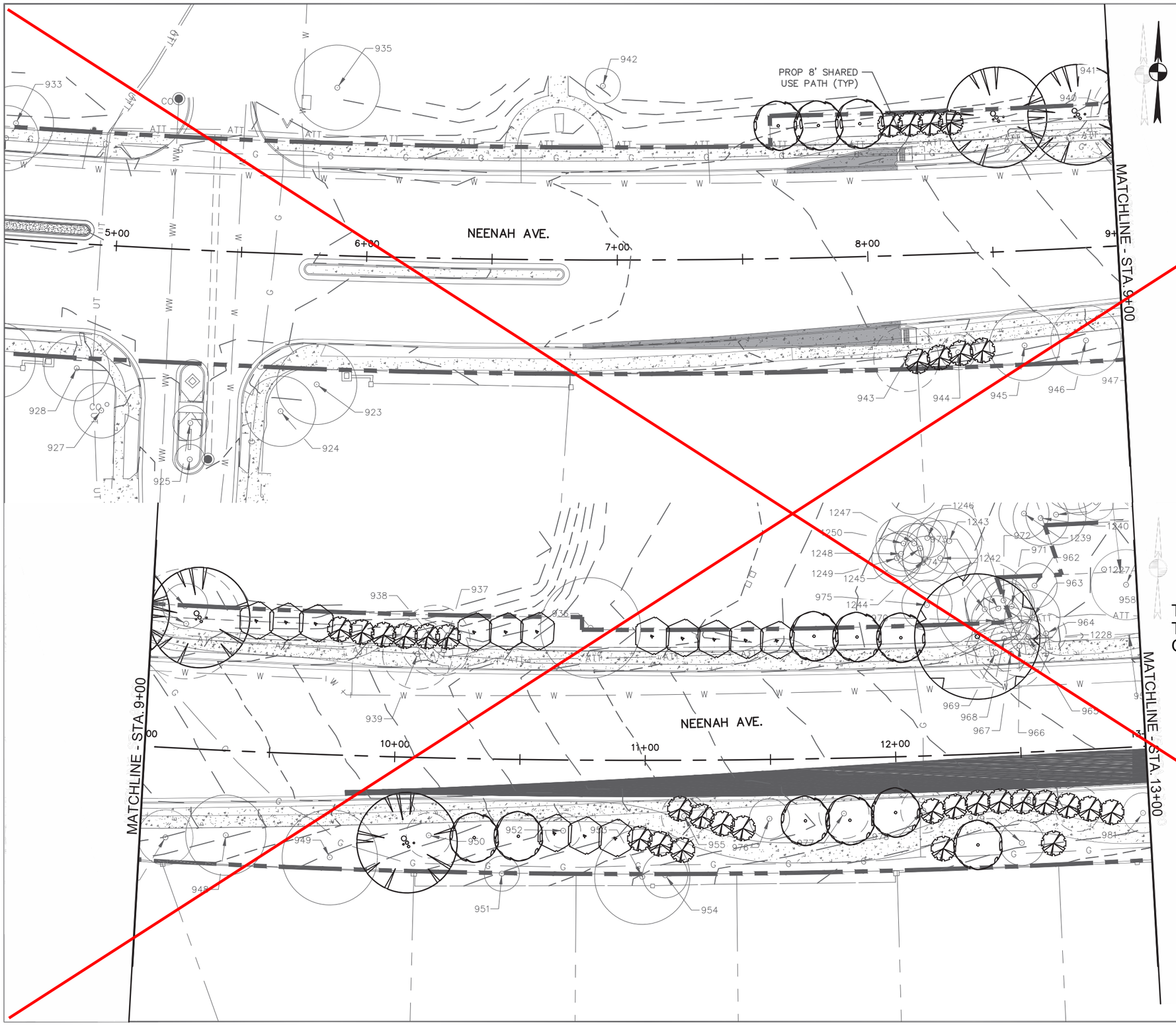

40 0 20 40

1" = 40'

TREE SYMBOLS & COUNT FOR THIS SHEET

- BALD CYPRESS (0)
- CEDAR ELM (12)
- CHINQUAPIN OAK (4)
- LIVE OAK (1)
- MOUNTAIN LAUREL (32)
- TEXAS REDBUD (14)

LEGEND

- 1111 — TREE TO REMAIN
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- LIMITS OF CONSTRUCTION

TREE MITIGATION TO BE DONE BY OTHERS

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED
PROFESSIONAL ENGINEER
AUGUST 15 2017
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KEVIN SWEAT LIC. # 92023

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

CITY OF AUSTIN FOUNDED 1839 — ESD — ENGINEERING SERVICES DIVISION

TREE MITIGATION PLANS STA 5+00 TO STA 13+00

SHEET 211 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				---

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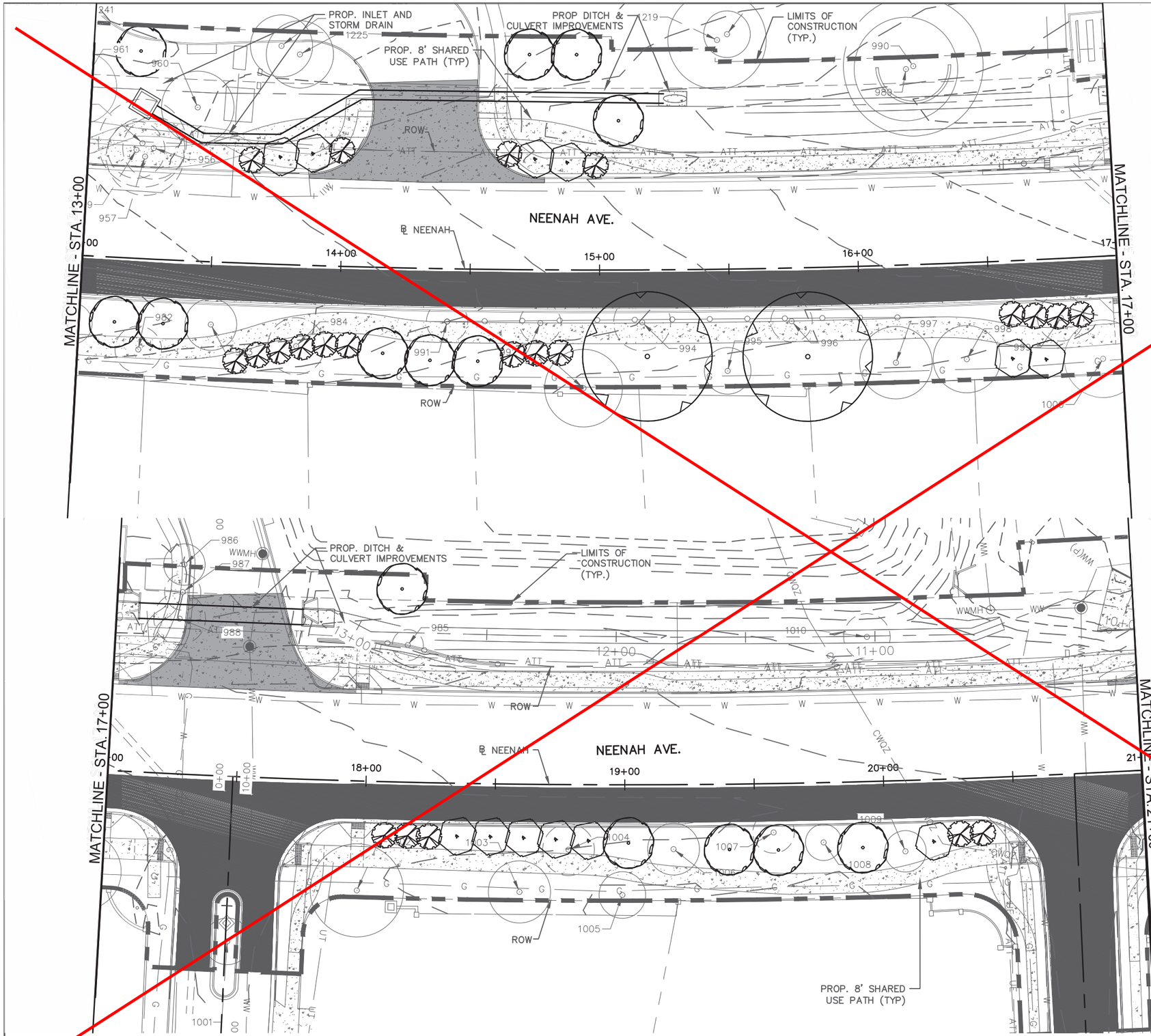
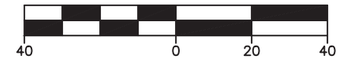
SP-2016-0186D





1" = 40'

TREE SYMBOLS & COUNT FOR THIS SHEET

- BALD CYPRESS (0)
- CEDAR ELM (14)
- CHINQUAPIN OAK (0)
- LIVE OAK (2)
- MOUNTAIN LAUREL (22)
- TEXAS REDBUD (12)

LEGEND

- 1111 — TREE TO REMAIN
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- LIMITS OF CONSTRUCTION

TREE MITIGATION TO BE DONE BY OTHERS

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED PROFESSIONAL ENGINEER
AUGUST 15 2017
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KEVIN SWEAT LIC. # 92023

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

CITY OF AUSTIN FOUNDED 1839 — ESD ENGINEERING SERVICES DIVISION

TREE MITIGATION PLANS
STA 13+00 TO STA 21+00

SHEET 212 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				----

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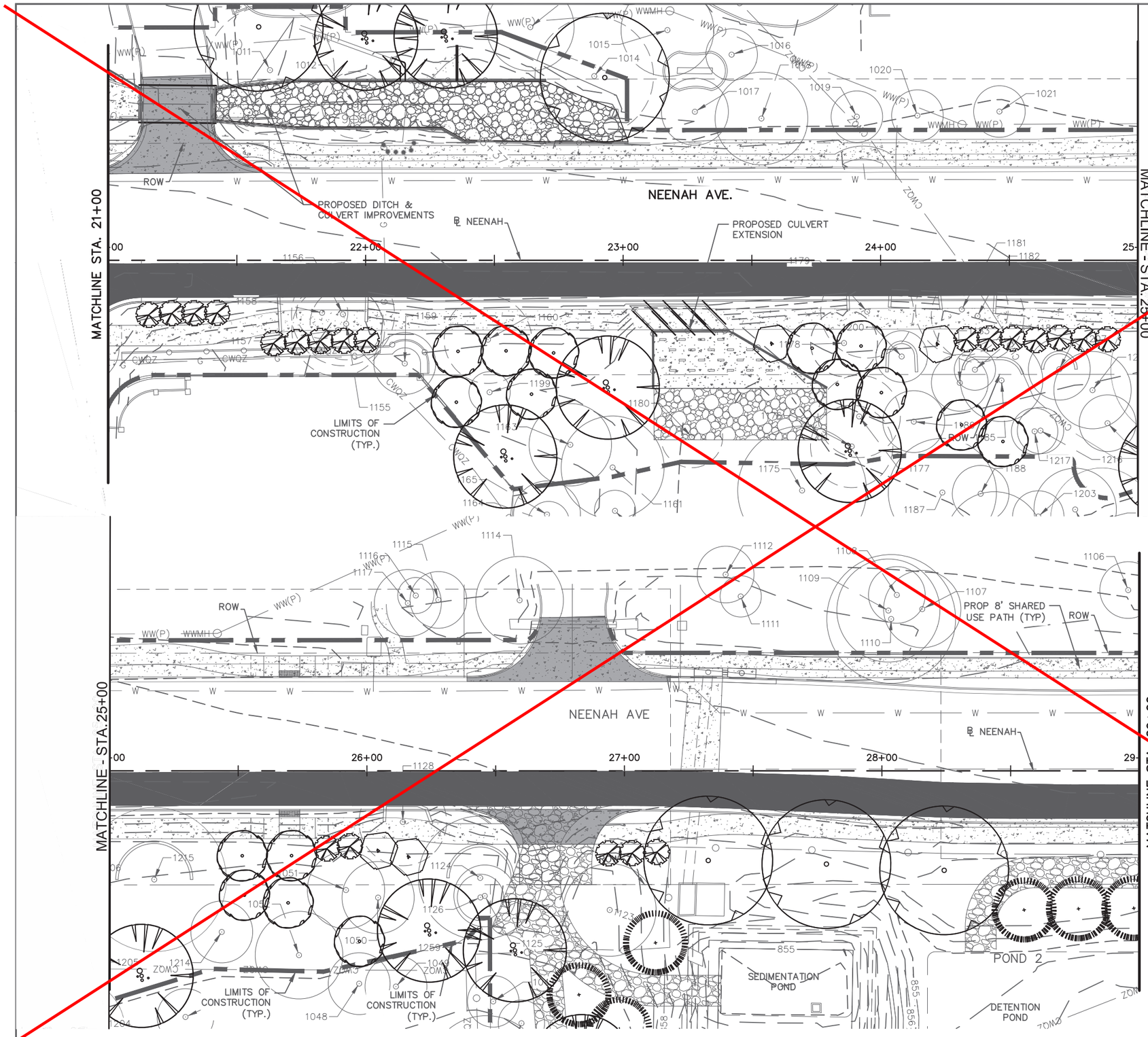

TREE SYMBOLS & COUNT FOR THIS SHEET

- BALD CYPRESS (1 – SEE POND 2 SHEET)
- CEDAR ELM (16)
- CHINQUAPIN OAK (8)
- LIVE OAK (5)
- MOUNTAIN LAUREL (21)
- TEXAS REDBUD (4)

LEGEND

- TREE TO REMAIN
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- LIMITS OF CONSTRUCTION

TREE MITIGATION TO BE DONE BY OTHERS

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED PROFESSIONAL ENGINEER
AUGUST 15 2017
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KEVIN SWEAT LIC. # 92023

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

CITY OF AUSTIN FOUNDED 1839 — ESD — ENGINEERING SERVICES DIVISION

TREE MITIGATION PLANS STA 21+00 TO STA 29+00

SHEET 213 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				----

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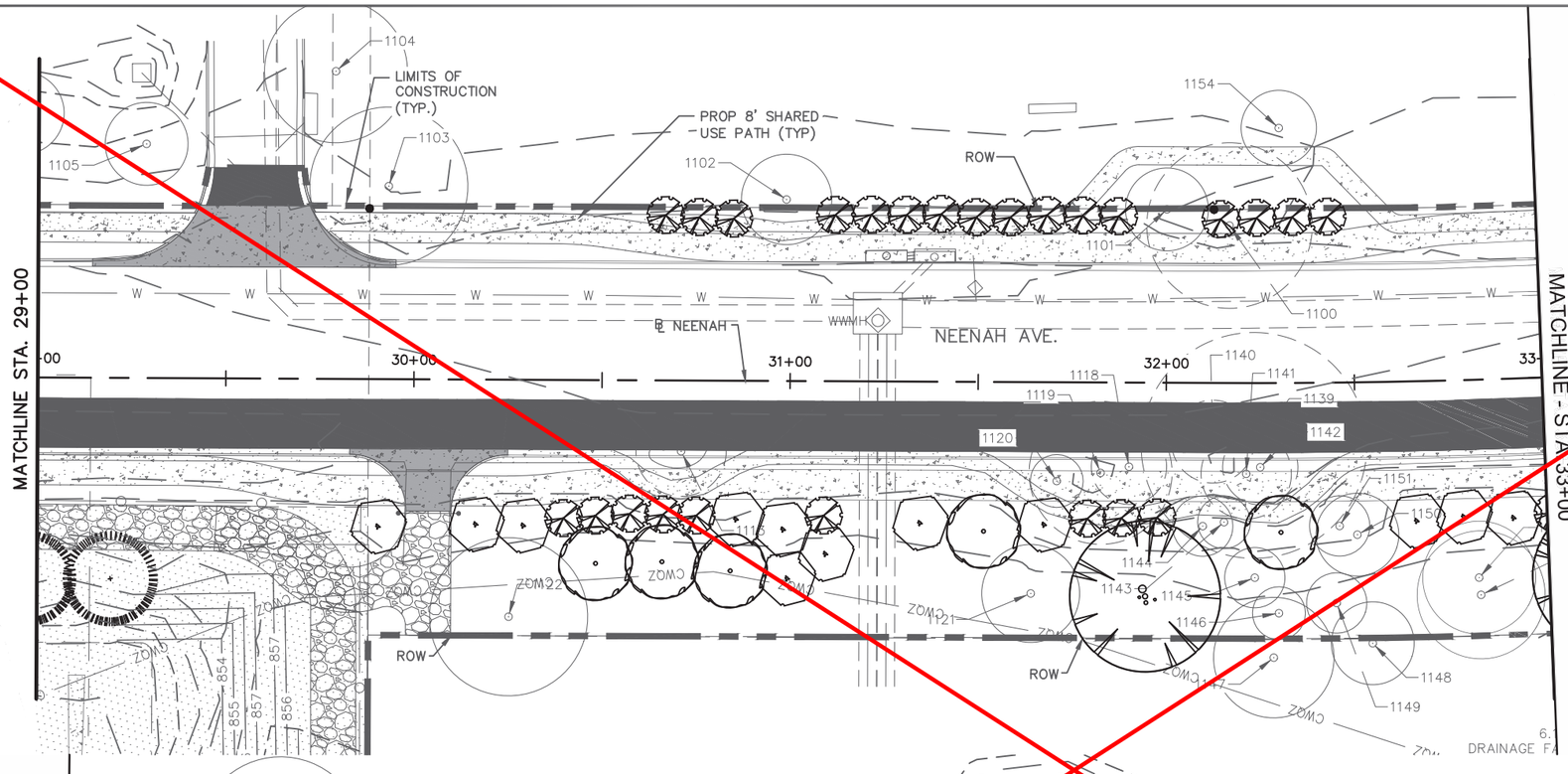

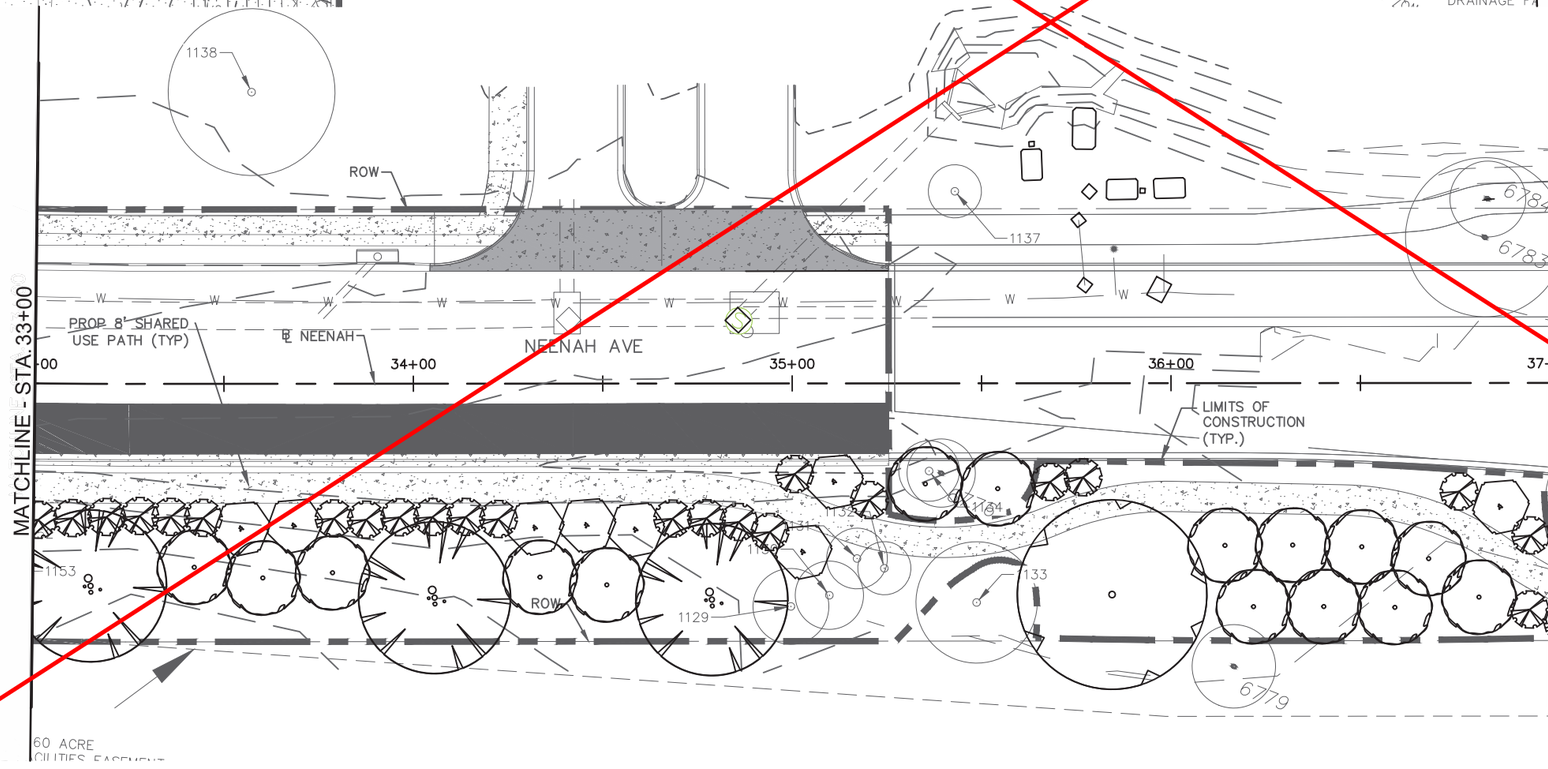

TREE SYMBOLS & COUNT FOR THIS SHEET

- BALD CYPRESS (0 – SEE POND 2 SHEET)
- CEDAR ELM (20)
- CHINQUAPIN OAK (4)
- LIVE OAK (1)
- MOUNTAIN LAUREL (48)
- TEXAS REDBUD (20)

LEGEND

- 1111 — TREE TO REMAIN
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- LIMITS OF CONSTRUCTION

TREE MITIGATION TO BE DONE BY OTHERS

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED PROFESSIONAL ENGINEER
AUGUST 15 2017
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NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

CITY OF AUSTIN FOUNDED 1839 — ESD — ENGINEERING SERVICES DIVISION

TREE MITIGATION PLANS
STA 29+00 TO STA 37+00

SHEET 214 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				

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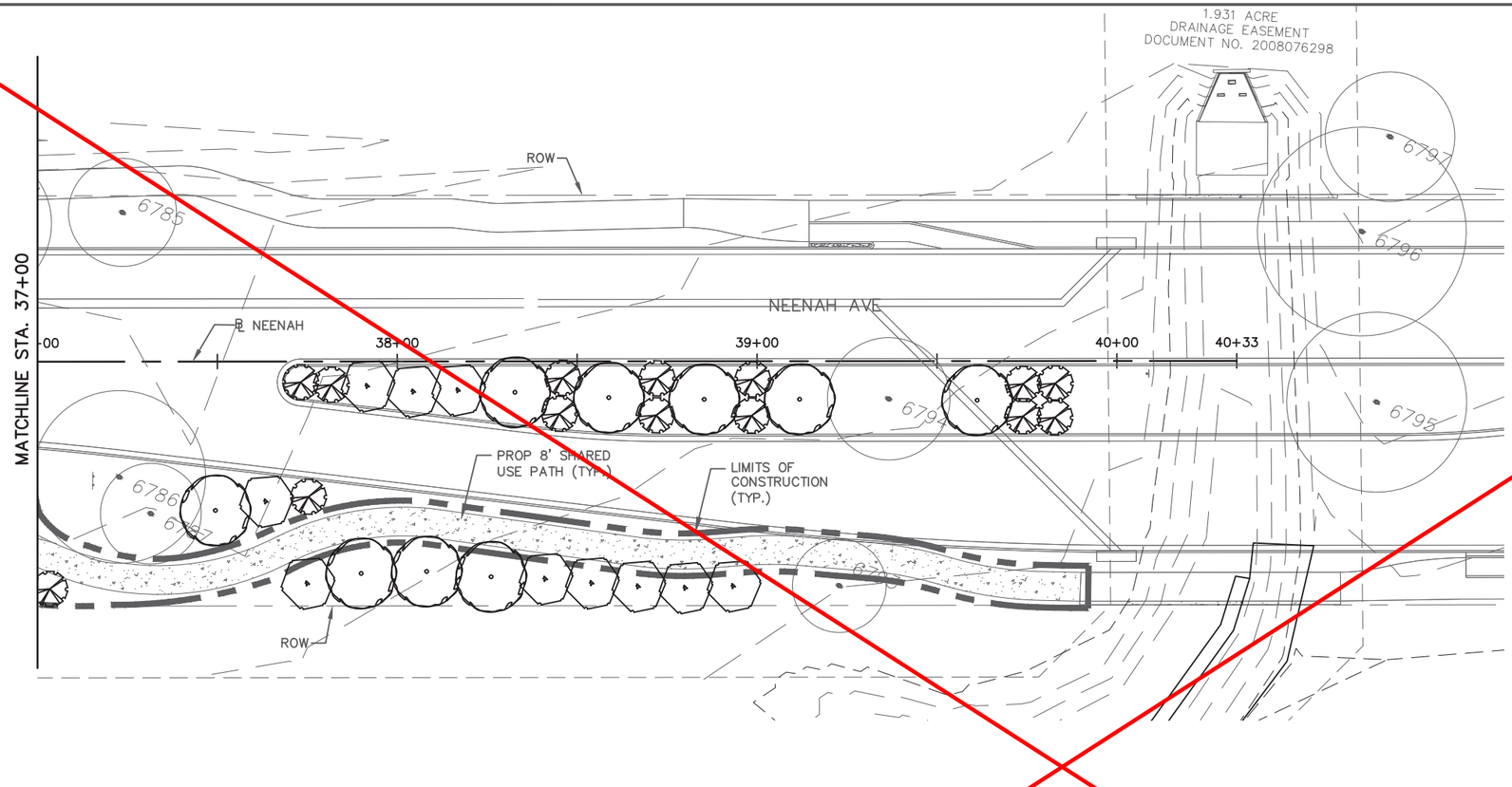

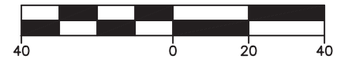

TREE SYMBOLS & COUNT FOR THIS SHEET

- BALD CYPRESS (0)
- CEDAR ELM (9)
- CHINQUAPIN OAK (0)
- LIVE OAK (0)
- MOUNTAIN LAUREL (14)
- TEXAS REDBUD (10)

LEGEND

- 1111 — TREE TO REMAIN
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- LIMITS OF CONSTRUCTION

TREE MITIGATION TO BE DONE BY OTHERS

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED
PROFESSIONAL ENGINEER
AUGUST 15 2017
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KEVIN SWEAT LIC. # 92023

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

CITY OF AUSTIN FOUNDED 1839 — ESD — ENGINEERING SERVICES DIVISION

TREE MITIGATION PLANS
STA 37+00 TO STA 40+33

SHEET 215 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				----

SP-2016-0186D

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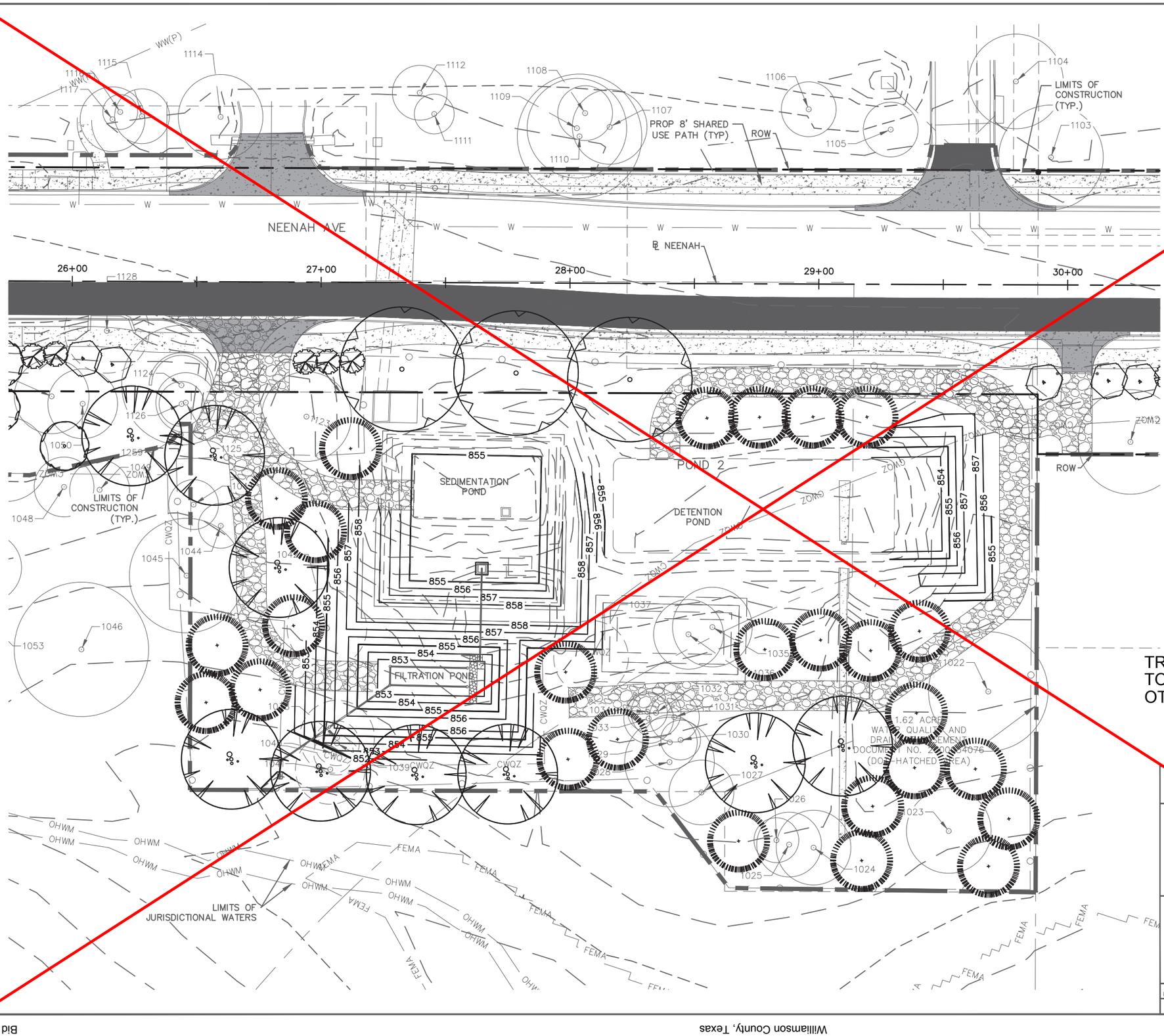

1" = 40'

TREE SYMBOLS & COUNT FOR THIS SHEET

- BALD CYPRESS (25)
- CEDAR ELM (0 – ON PREVIOUS SHEET)
- CHINQUAPIN OAK (7)
- LIVE OAK (0 – ON PREVIOUS SHEET)
- MOUNTAIN LAUREL (0 – ON PREVIOUS SHEET)
- TEXAS REDBUD (0 – ON PREVIOUS SHEET)

LEGEND

- TREE TO REMAIN
- PROPOSED TREE WELL
- PROPOSED ROADWAY WIDENING
- LIMITS OF CONSTRUCTION

TREE MITIGATION TO BE DONE BY OTHERS

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED PROFESSIONAL ENGINEER
AUGUST 15 2017
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KEVIN SWEAT LIC. # 92023

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

CITY OF AUSTIN FOUNDED 1839 — ESD — ENGINEERING SERVICES DIVISION

TREE MITIGATION PLANS POND 2

SHEET 216 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				216

SP-2016-0186D

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TREE SPECIES					
SYMBOL	COMMON NAME	SCIENTIFIC NAME	COUNT	SIZE	TOTAL
	BALD CYPRESS	Taxodium distichum	26	3"	78"
	CEDAR ELM	Ulmus crassifolia	71	3"	213"
	CHINQUAPIN OAK	Quercus Muhlenbergii	23	3"	69"
	LIVE OAK	Quercus virginiana	9	3"	27"
	MOUNTAIN LAUREL	Sophora secundiflora	137	1"	137
	TEXAS REDBUD	Cercis canadensis var. 'texensis'	60	1"	60"
TOTALS			326		584"

	CATEGORY	ON APPENDIX F 8"-18"	NOT ON APPENDIX F 8"-18"	ON APPENDIX F 19" +	NOT ON APPENDIX F 19" +	HERITAGE
STANDARD MITIGATION FOR ALL TREES	TOTAL INCHES	715	0	63	0	54.5
	MITIGATION PERCENTAGE	50%	25%	100%	50%	300%
	INCHES TO BE REPLACED	357.5	0	63	0	163.5
TOTAL CALIPER INCHES REMOVED						832.5
TOTAL CALIPER INCHES REQUIRED TO BE MITIGATED						**584**

NOTES:
1. THE CITY OF AUSTIN PUBLIC WORKS DEPARTMENT IS RESPONSIBLE FOR THE TREE MITIGATION COMPONENT OF THIS PROJECT. TREE PLANTINGS WILL OCCUR WITHIN ONE YEAR OF PROJECT COMPLETION.

TREE MITIGATION TO BE DONE BY OTHERS

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED
PROFESSIONAL ENGINEER
AUGUST 15 2017
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KEVIN SWEAT LIC. # 92023

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

CITY OF AUSTIN FOUNDED 1839 — ESD ENGINEERING SERVICES DIVISION

TREE MITIGATION LEGEND & SUMMARY TABLES

SHEET 217 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				216

SP-2016-0186D

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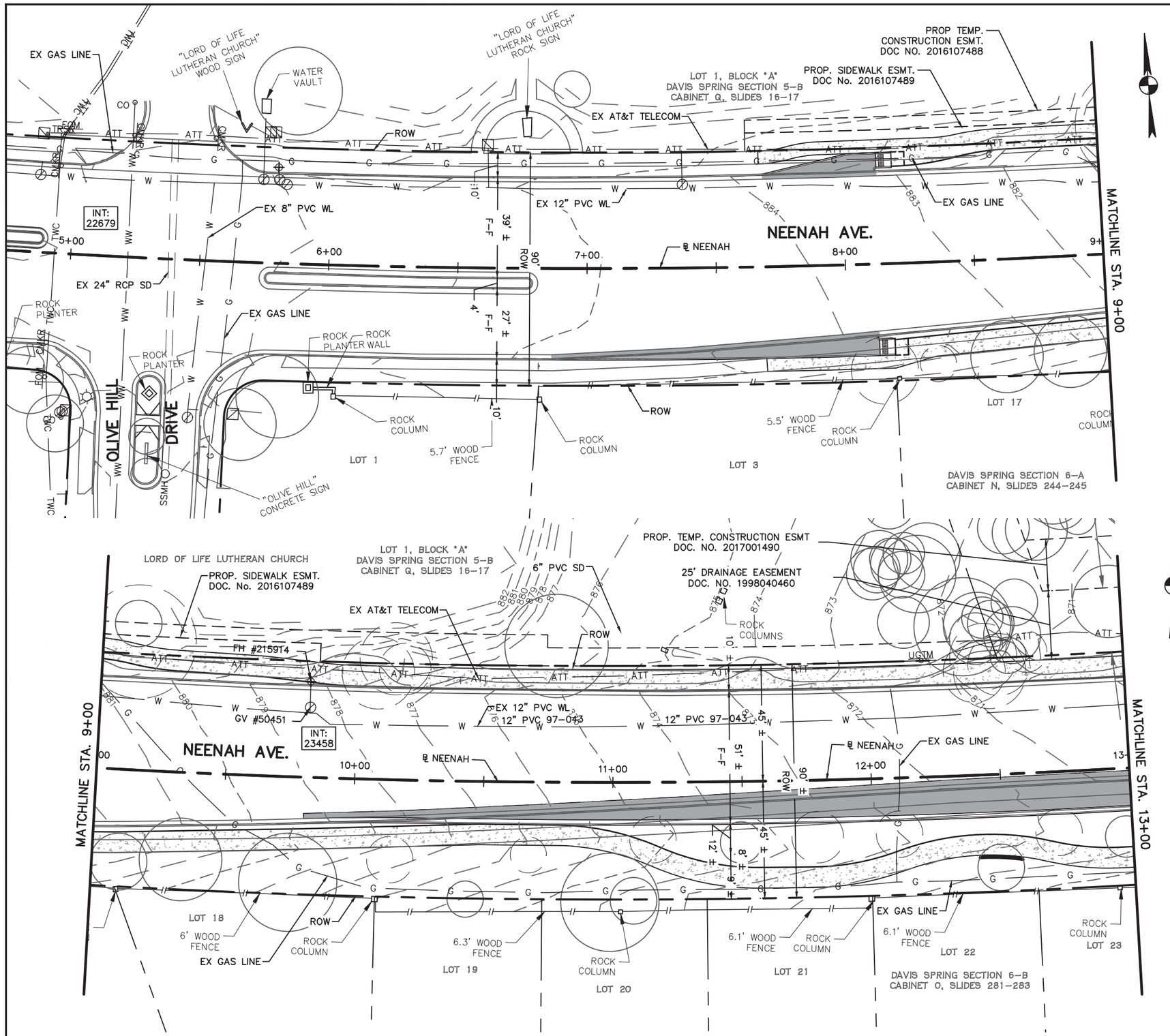

1" = 40'

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH AVE. BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. ALL UTILITIES NOT IDENTIFIED FOR REMOVAL ARE TO REMAIN.
5. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
6. UTILITY INFORMATION SHOWN WAS TAKEN FROM RECORD DRAWINGS AND SURFACE FEATURES LOCATED WITH SURVEY.
7. CONTRACTOR TO MAKE HIS OWN DETERMINATIONS AS TO ACTUAL LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.
8. TWC HAS AN EMPTY CONDUIT WITHIN THE PROJECT LIMITS.
9. TWC CONDUIT WITHIN ROW THAT CONFLICTS WITH PROPOSED CONSTRUCTION TO BE REMOVED.
10. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

8-4-17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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EXISTING UTILITY LAYOUT
STA. 5+00 TO STA. 13+00

SHEET 218 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				218

SP-2016-0186D

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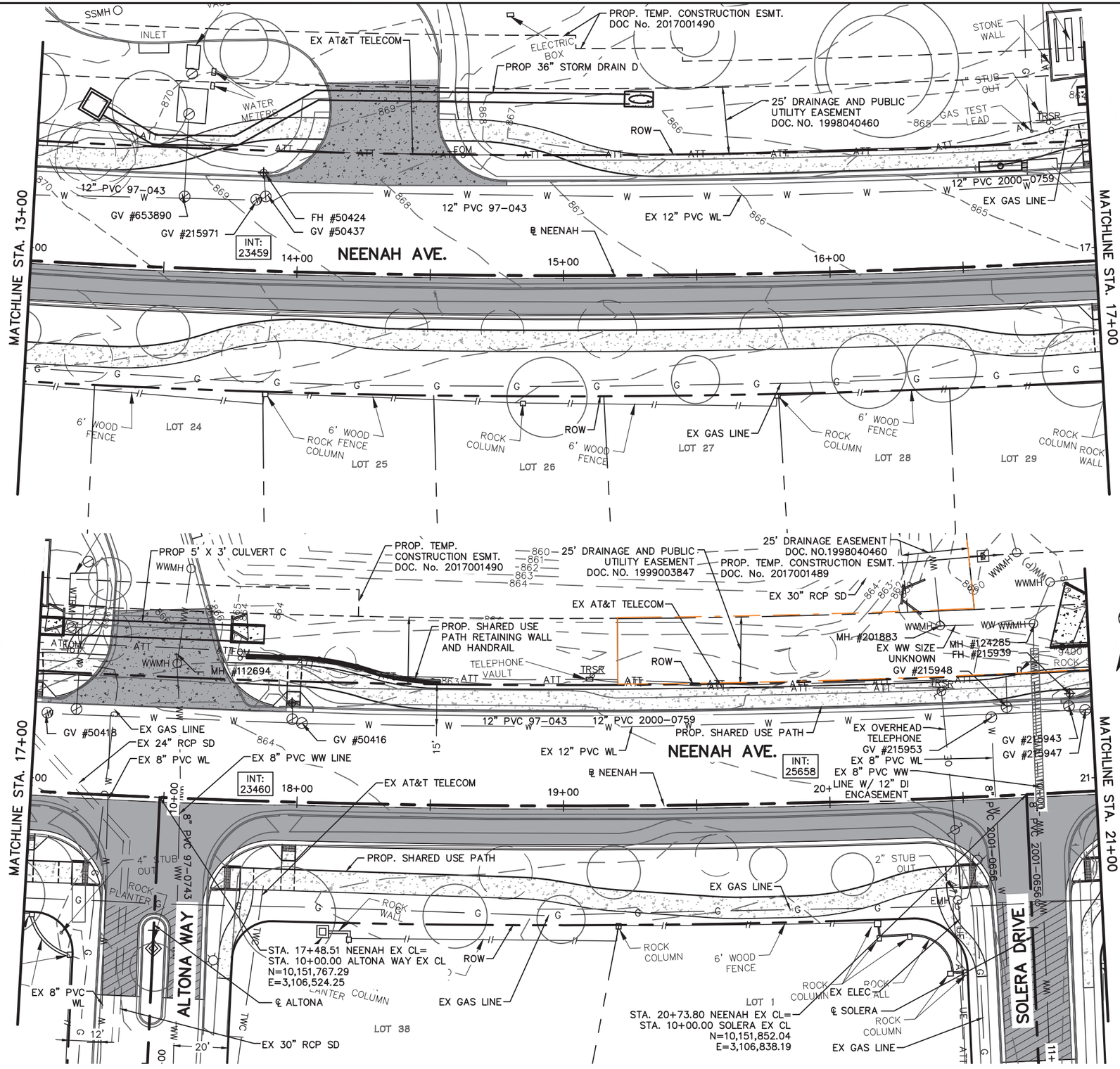

40 0 20 40

1" = 40'

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH AVE. BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. ALL UTILITIES NOT IDENTIFIED FOR REMOVAL ARE TO REMAIN.
5. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
6. TWC HAS AN EMPTY CONDUIT WITHIN THE PROJECT LIMITS.
7. TWC CONDUIT WITHIN ROW THAT CONFLICTS WITH PROPOSED CONSTRUCTION TO BE REMOVED.
8. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
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LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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EXISTING UTILITY LAYOUT
STA. 13+00 TO STA. 21+00

SHEET 219 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				219

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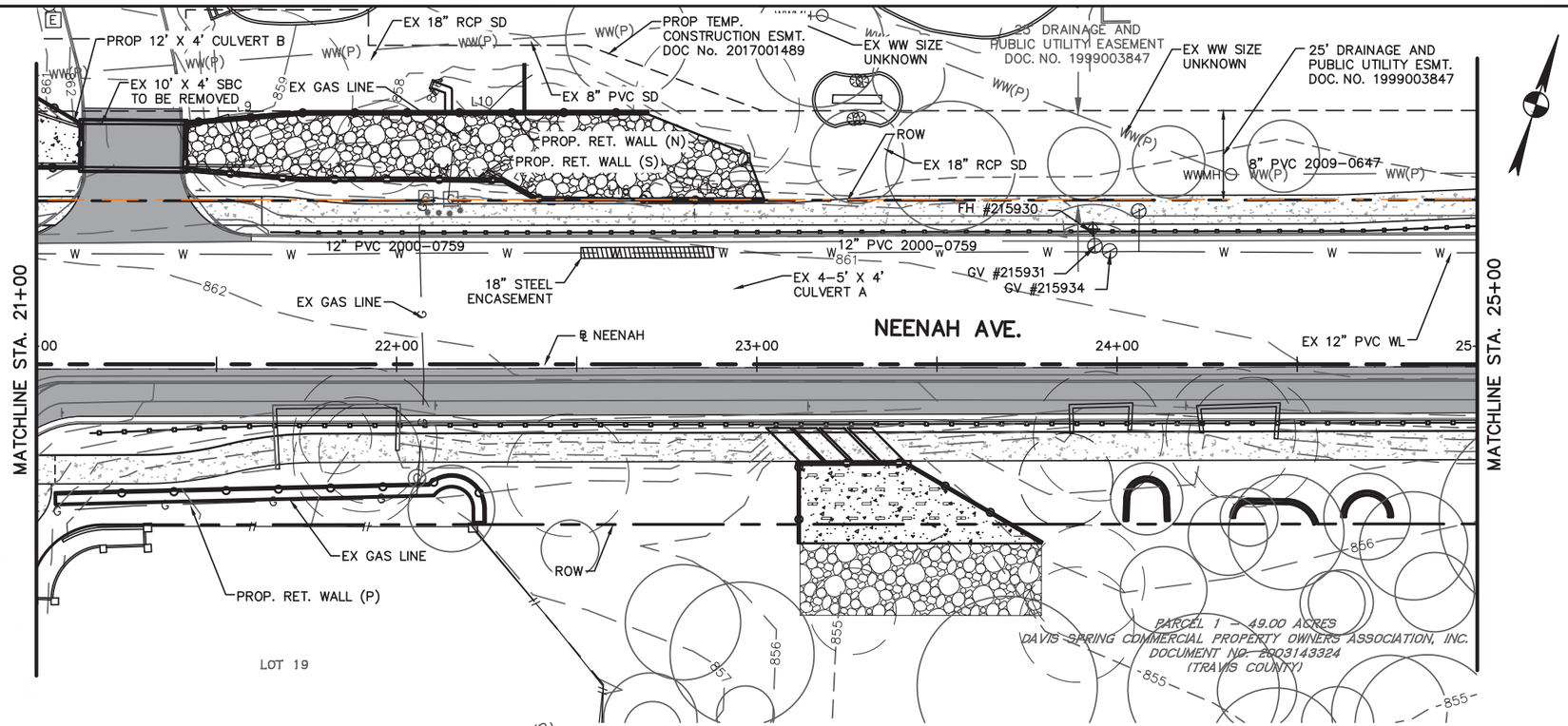

40 0 20 40

1" = 40'

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH AVE. BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. ALL UTILITIES NOT IDENTIFIED FOR REMOVAL ARE TO REMAIN.
5. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
6. TWC HAS AN EMPTY CONDUIT WITHIN THE PROJECT LIMITS.
7. TWC CONDUIT WITHIN ROW THAT CONFLICTS WITH PROPOSED CONSTRUCTION TO BE REMOVED.
8. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.

8.4.17
STATE OF TEXAS
STEPHANE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephane D Blew

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WILLIAMSON COUNTY
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EXISTING UTILITY LAYOUT
STA. 21+00 TO STA. 29+00

SHEET 220 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				220

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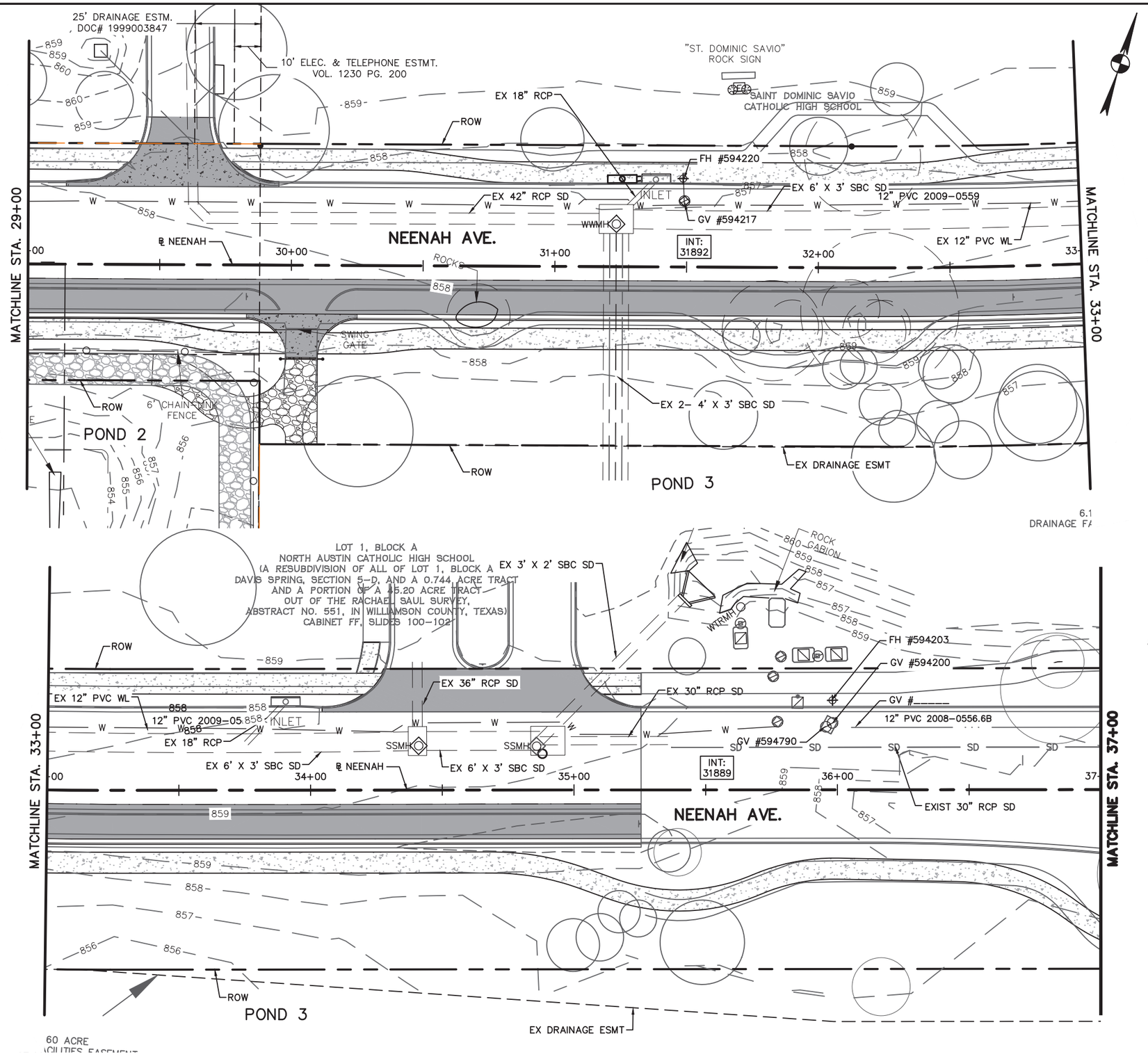

40 0 20 40

1" = 40'

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH AVE. BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. ALL UTILITIES NOT IDENTIFIED FOR REMOVAL ARE TO REMAIN.
5. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
6. TWC HAS AN EMPTY CONDUIT WITHIN THE PROJECT LIMITS.
7. TWC CONDUIT WITHIN ROW THAT CONFLICTS WITH PROPOSED CONSTRUCTION TO BE REMOVED.
8. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
9. INFORMATION SHOWN TO THE EAST OF STATION 35+25.47 WAS PROVIDED BY OTHERS. CONTRACTOR TO FIELD VERIFY. CONTOURS SHOWN REFLECT CONDITIONS PRIOR TO CONSTRUCTION OF NEENAH AVE EXTENSION (C8J-2008-0056.6B).
10. DRY UTILITIES ARE NOT SHOWN EAST OF STA 35+25.47. CONTRACTOR SHALL LOCATE PRIOR TO CONSTRUCTION OF SOUTH SHARED USE PATH.

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
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EXISTING UTILITY LAYOUT
STA. 29+00 TO 37+00

SHEET 221 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				221

SP-2016-0186D

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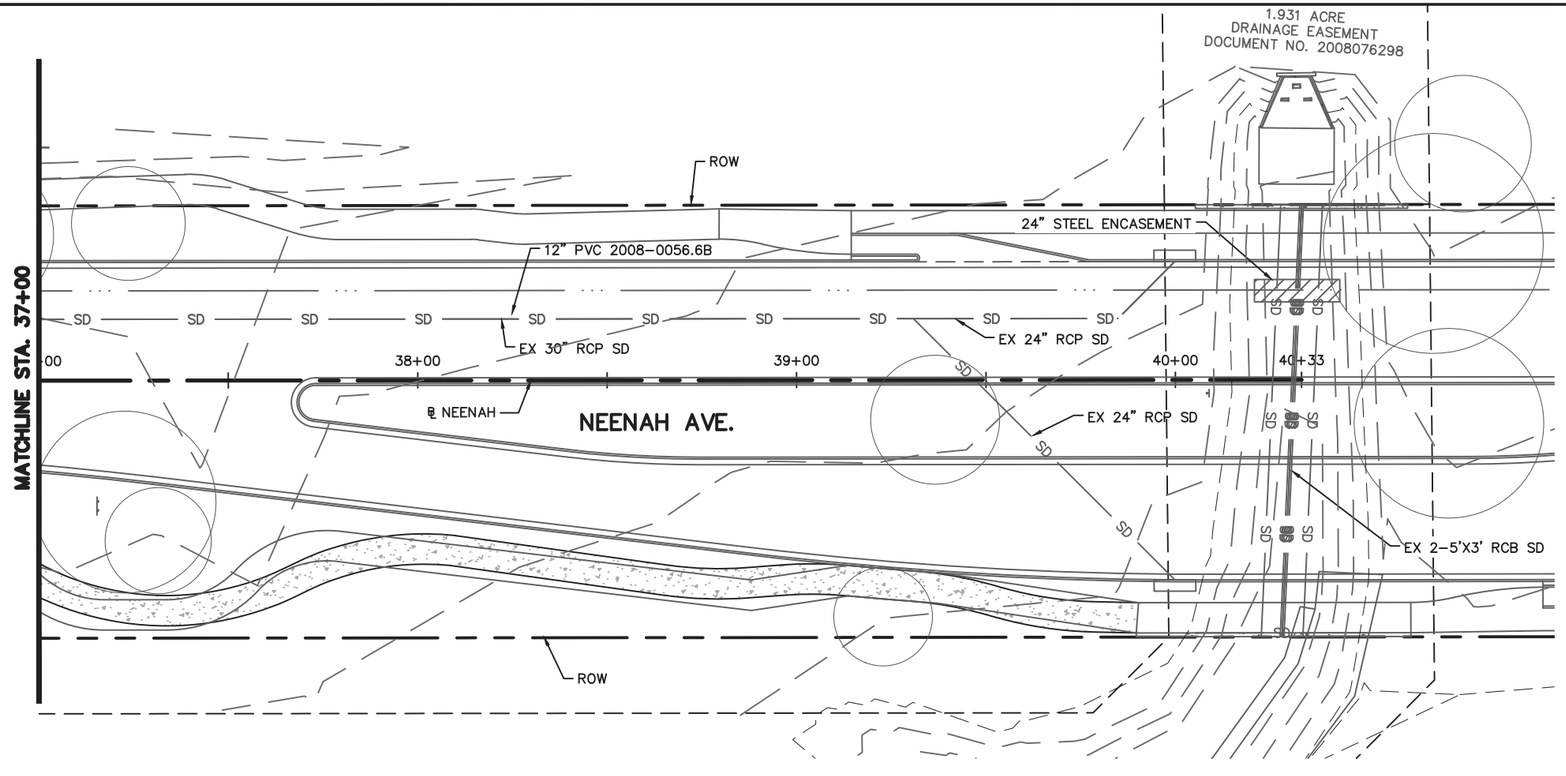

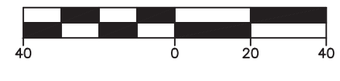

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
3. ALL STATIONS AND OFFSETS REFERENCE THE PROPOSED NEENAH AVE. BASELINE, UNLESS OTHERWISE NOTED IN THE PLANS.
4. ALL UTILITIES NOT IDENTIFIED FOR REMOVAL ARE TO REMAIN.
5. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
6. TWC HAS AN EMPTY CONDUIT WITHIN THE PROJECT LIMITS.
7. TWC CONDUIT WITHIN ROW THAT CONFLICTS WITH PROPOSED CONSTRUCTION TO BE REMOVED.
8. REFER TO THE UTILITY PLAN SHEETS FOR WATER AND WASTEWATER ADJUSTMENTS.
9. INFORMATION SHOWN TO THE EAST OF STATION 35+25.47 WAS PROVIDED BY OTHERS. CONTRACTOR TO FIELD VERIFY. CONTOURS SHOWN REFLECT CONDITIONS PRIOR TO CONSTRUCTION OF NEENAH AVE EXTENSION (C8J-2008-0056.6B).
10. DRY UTILITIES ARE NOT SHOWN EAST OF STA 35+25.47. CONTRACTOR SHALL LOCATE PRIOR TO CONSTRUCTION OF SOUTH SHARED USE PATH.

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
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EXISTING UTILITY LAYOUT
STA. 37+00 TO END

SHEET 222 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023-10006	_	14	WILLIAMSON				222

SP-2016-0186D

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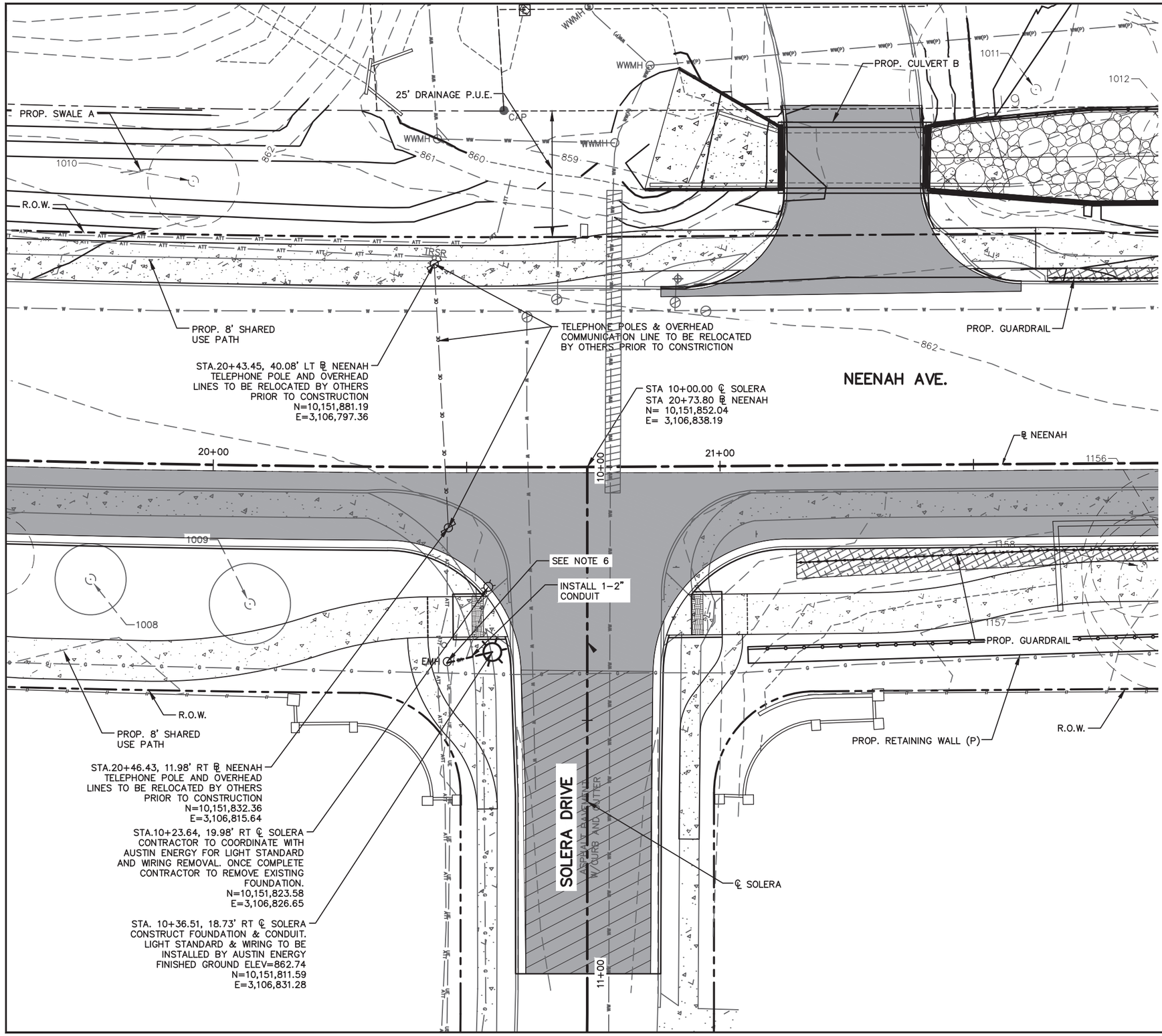

20 0 10 20

1" = 20'

NOTES:

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 811, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND FACILITIES ADJACENT TO WORK AREA.
3. REFER TO DRAINAGE SHEETS FOR MORE INFORMATION.
4. CONTRACTOR TO LOCATE EXISTING UNDERGROUND ELECTRIC LINES PRIOR TO CONSTRICTION.
5. PROPOSED POWER POLE & OVERHEAD ELECTRIC LINES ARE SUGGESTED LOCATIONS ONLY. AUSTIN ENERGY TO DETERMINE ACTUAL LOCATIONS & DESIGN ALL ADJUSTMENTS TO ELECTRIC FACILITIES. SEE ADDITIONAL INFORMATION IN PROJECT MANUAL.
6. CONTRACTOR TO ADJUST EXISTING ELECTRIC MANHOLE RIM TO PROPOSED GROUND ELEVATION.
7. REFER TO UTILITY LAYOUT SHEET FOR ADDITIONAL INFORMATION.

LEGEND

- ROW
- PROP. LIGHT STANDARD
- 859 — PROP. CONTOURS
- 860 — EXIST. CONTOURS
- EXIST. WOOD FENCE

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY 1848

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Tel. (512) 328-0011 Fax (512) 328-0325
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ILLUMINATION PLAN
SOLERA DR.

SHEET 223 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				223

SP-2016-0186D

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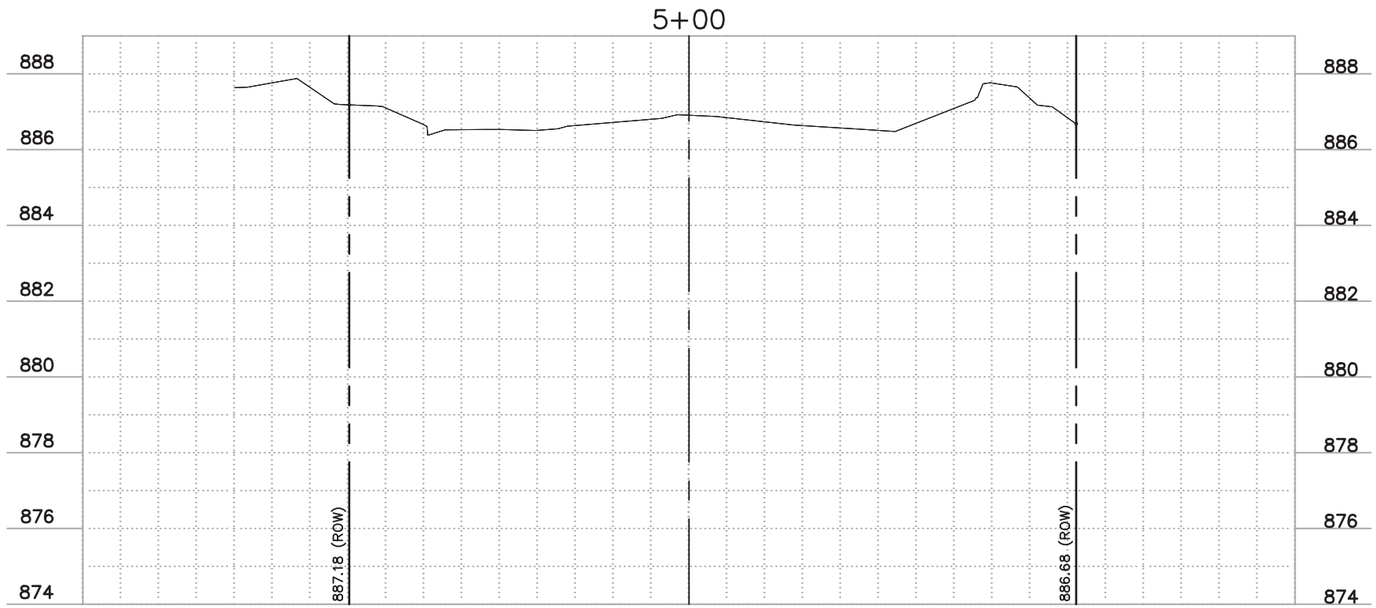

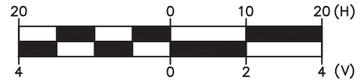

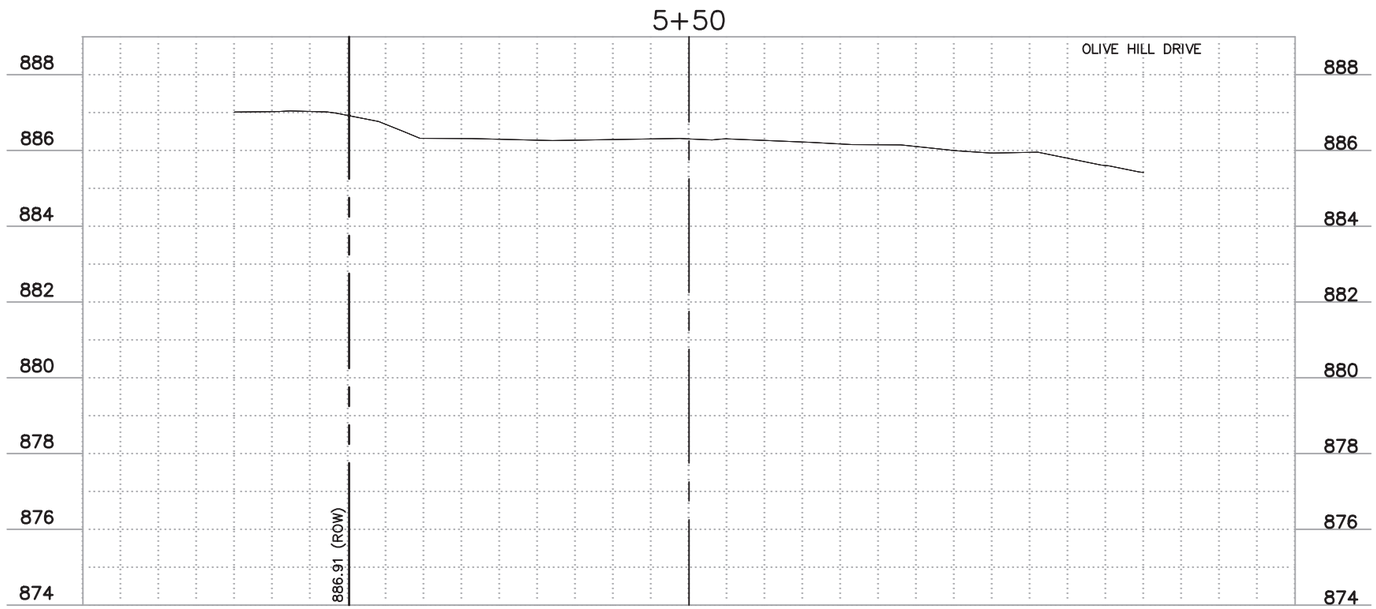

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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NEENAH. AVE CROSS SECTIONS
STA 5+00 – 5+50

SHEET 224 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				224

SP-2016-0186D

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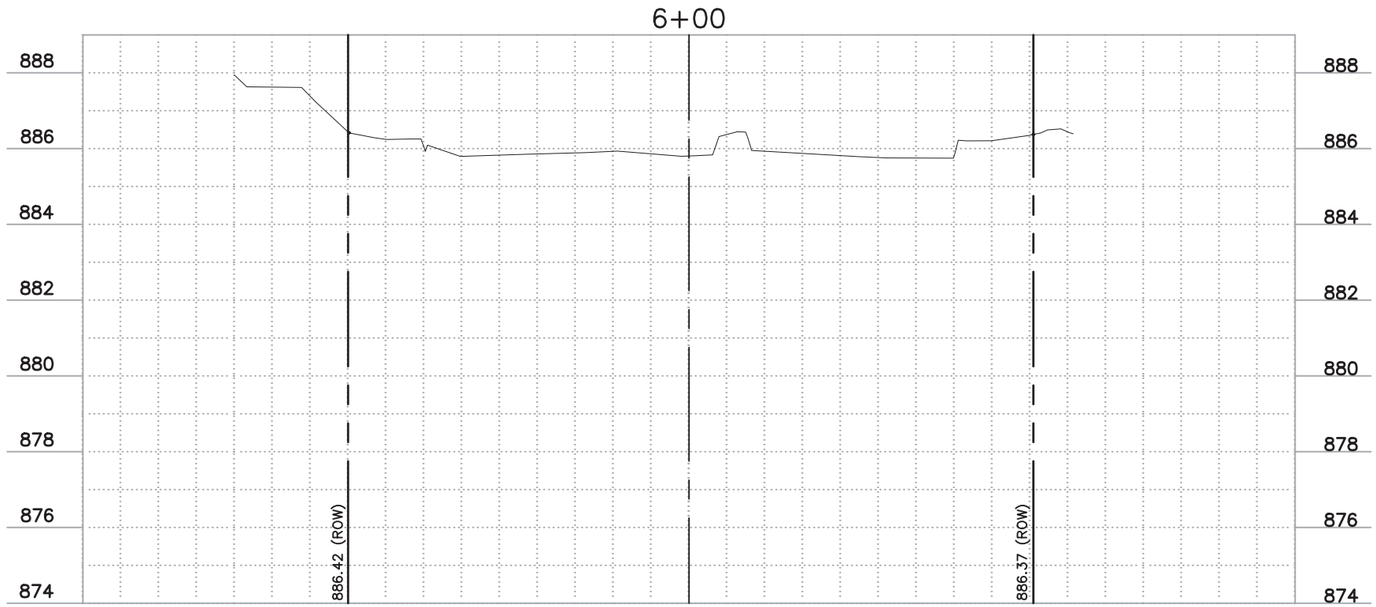

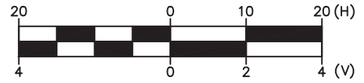

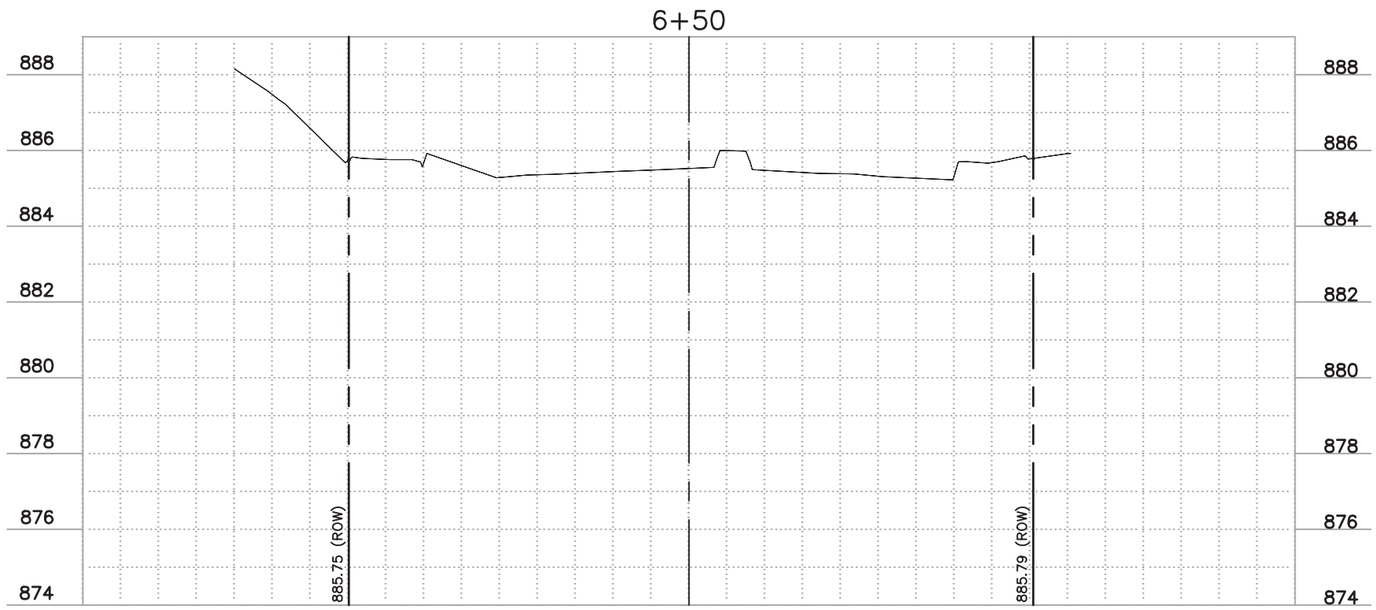

8.4.17

STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER

Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
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NEENAH AVE. CROSS SECTIONS
STA 6+00 – 6+50

SHEET 225 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				225

SP-2016-0186D

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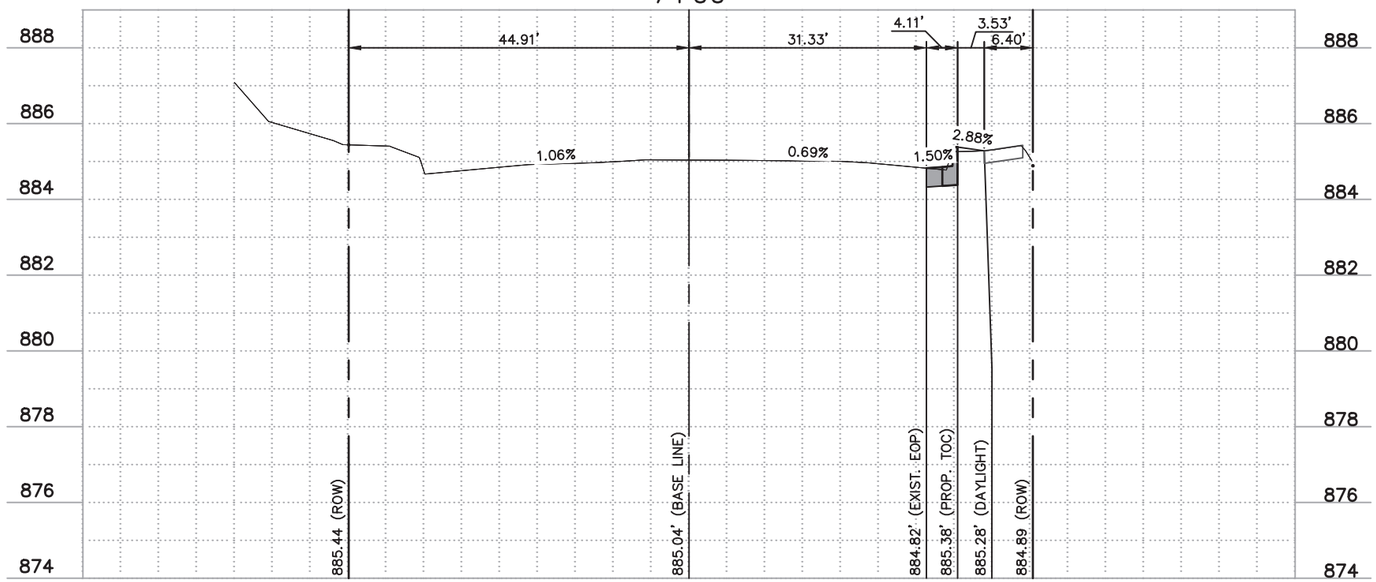
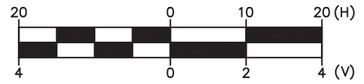
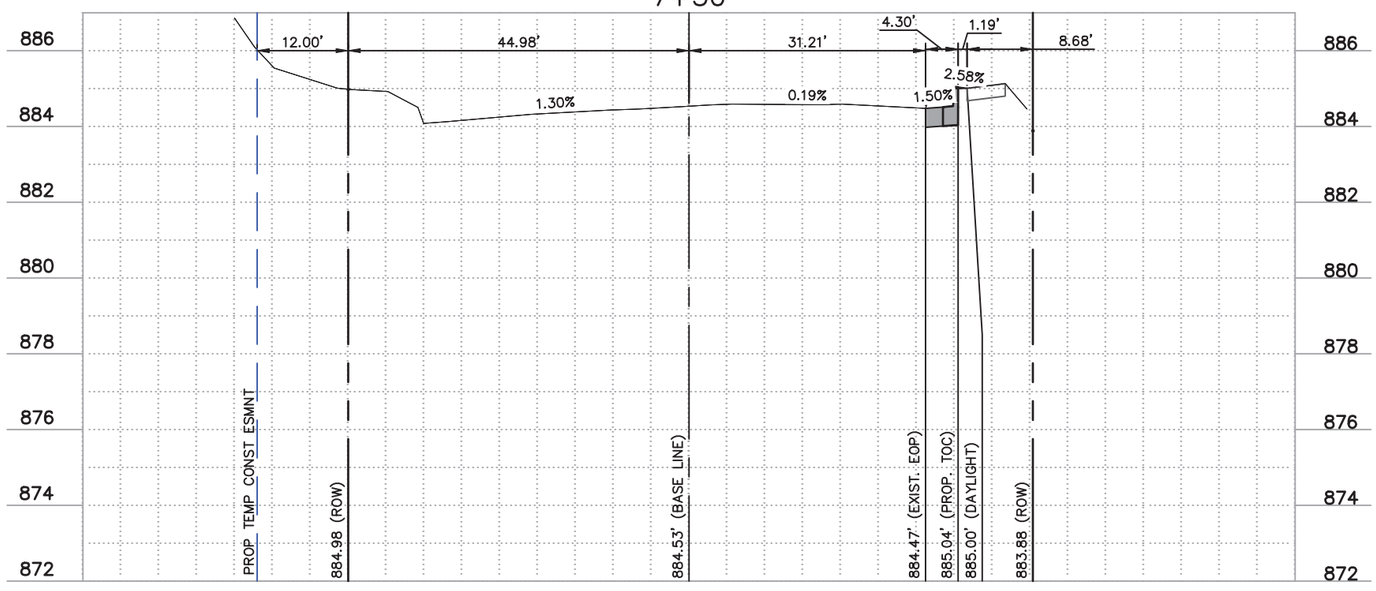
7+00





7+50



8.4.17

STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER

Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
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NEENAH AVE. CROSS SECTIONS
STA 7+00 – 7+50

SHEET 226 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				226

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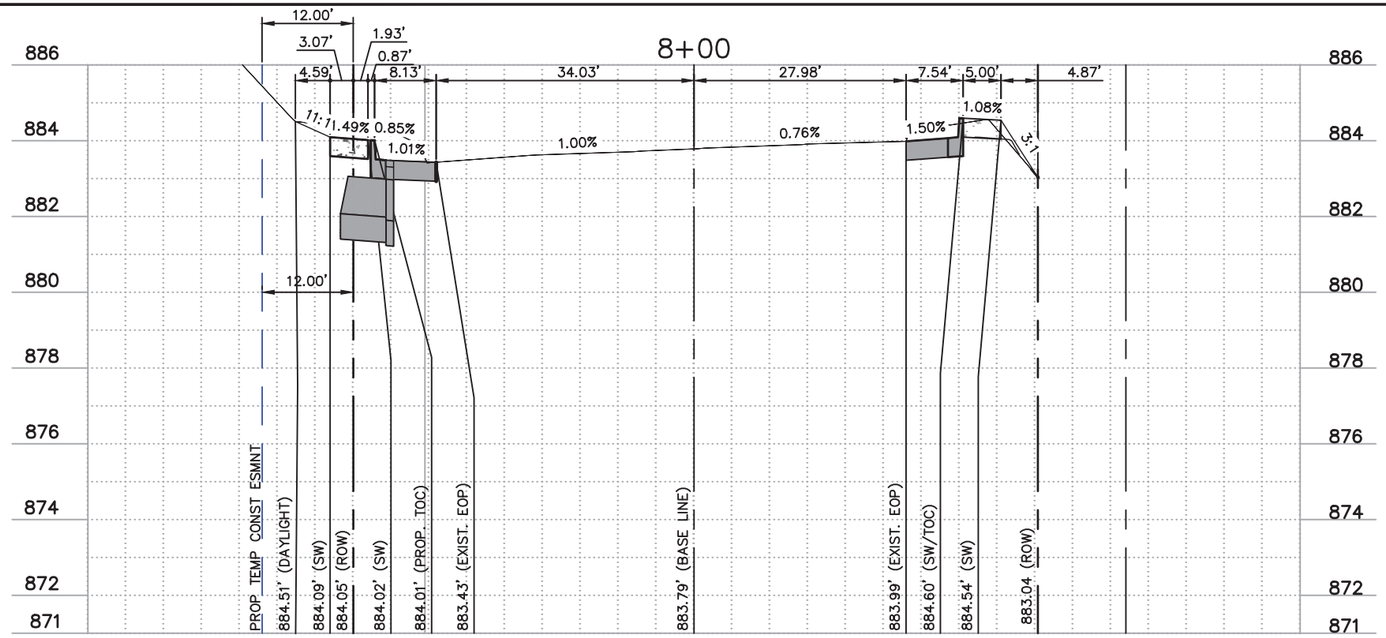

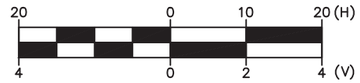

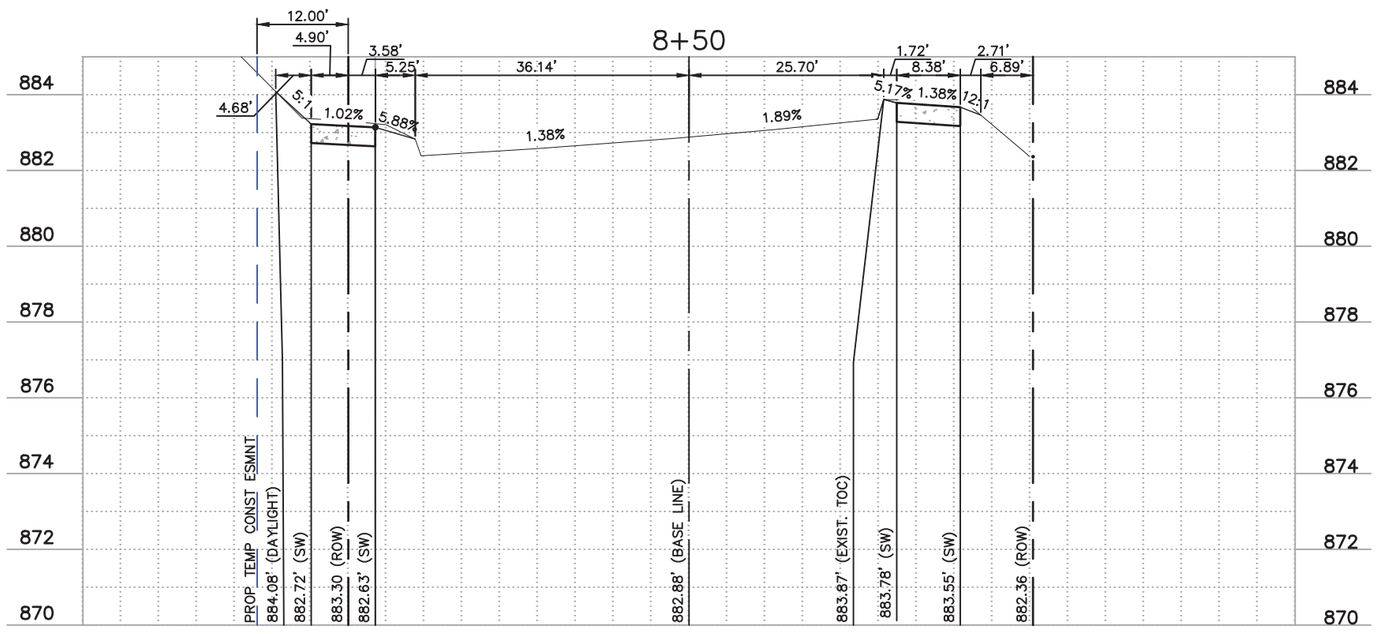

8.4.17

STATE OF TEXAS
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92682
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Stephanie D Blew

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SHEET 227 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				227

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				228

SP-2016-0186D

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STA 9+50 – 10+00

SHEET 229 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				229

SP-2016-0186D

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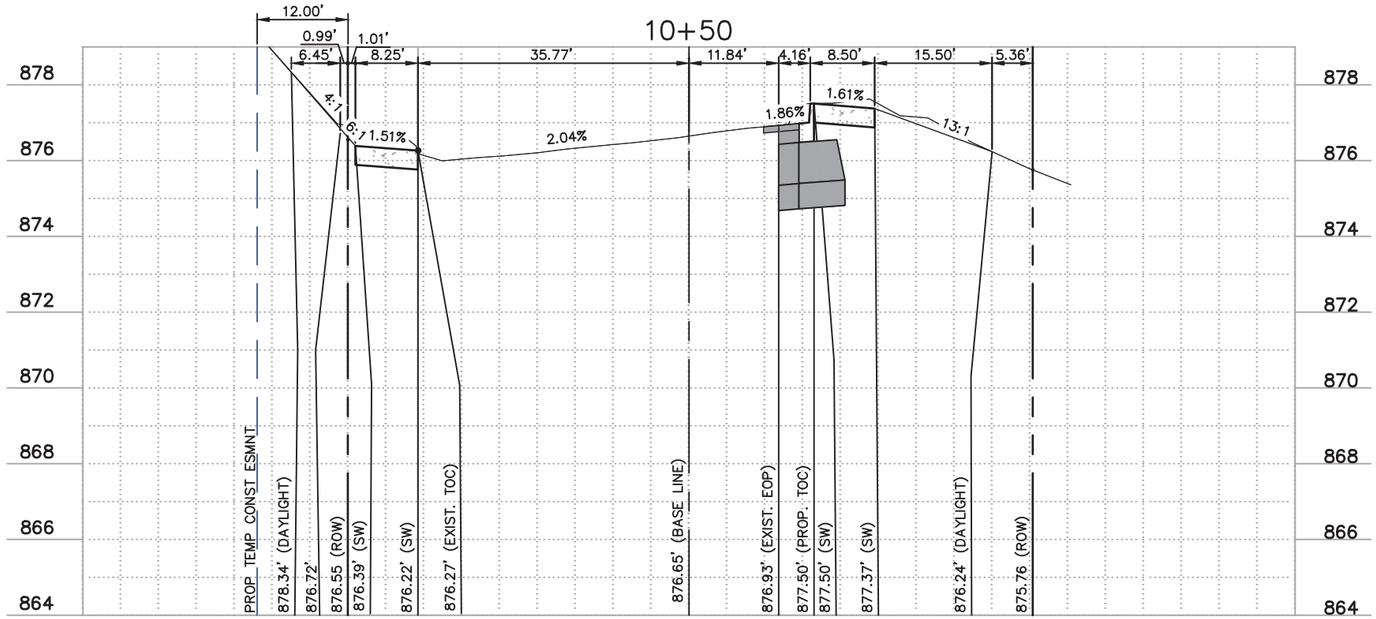

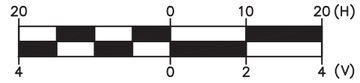

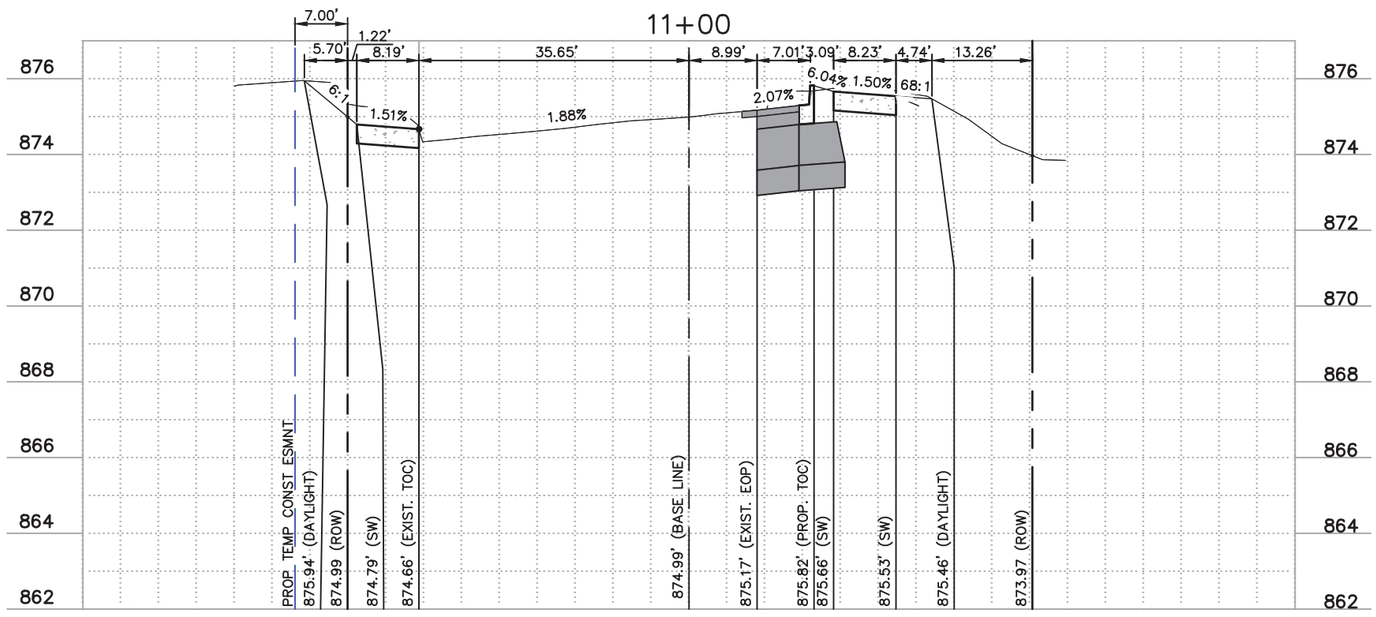

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STA 10+50 – 11+00

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				230

SP-2016-0186D

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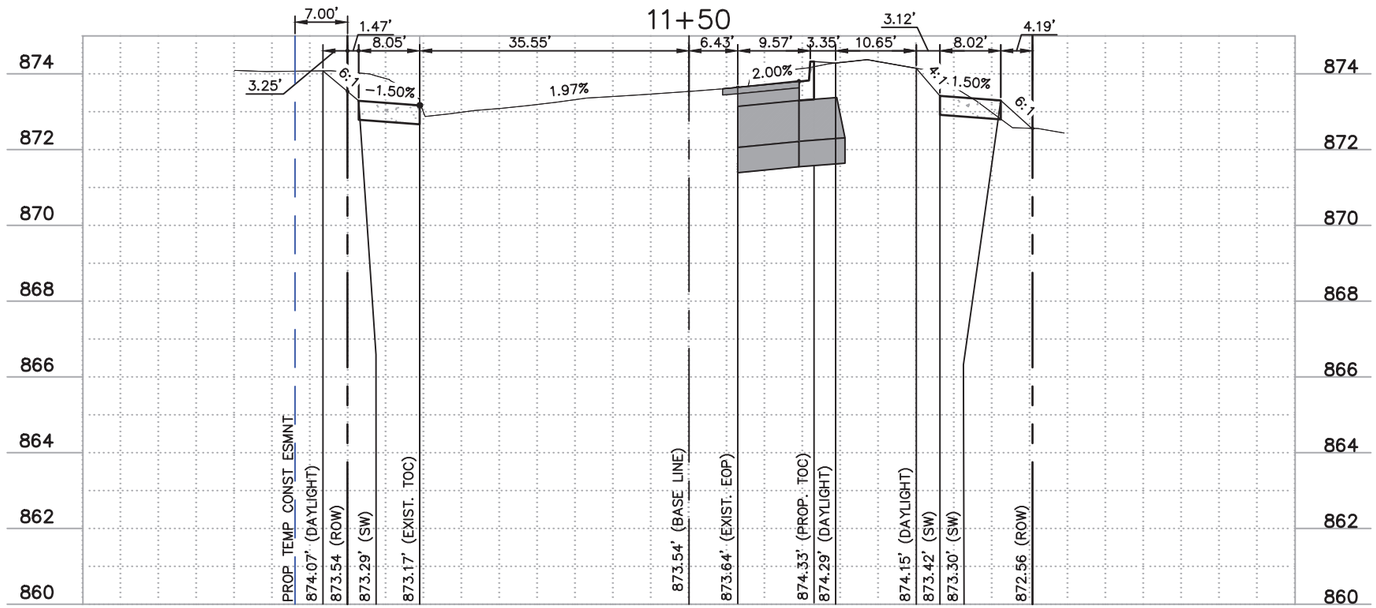

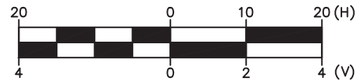

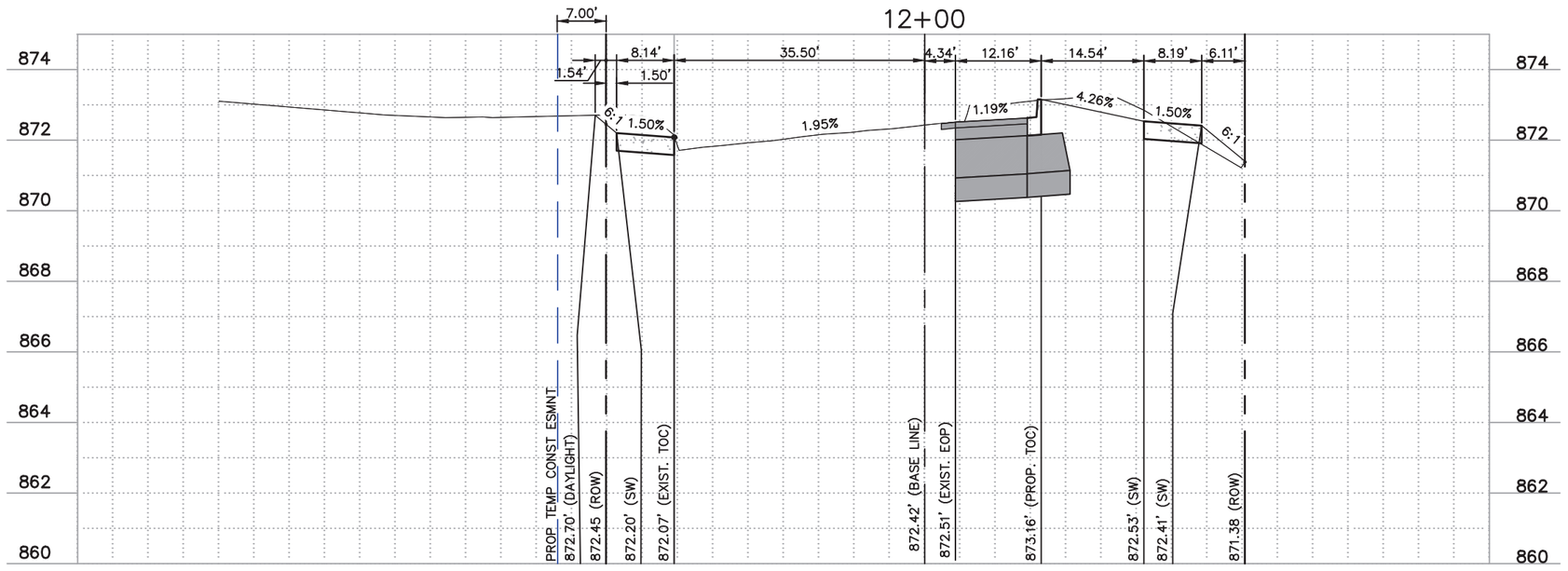

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STA 11+50 – 12+00

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				231

SP-2016-0186D

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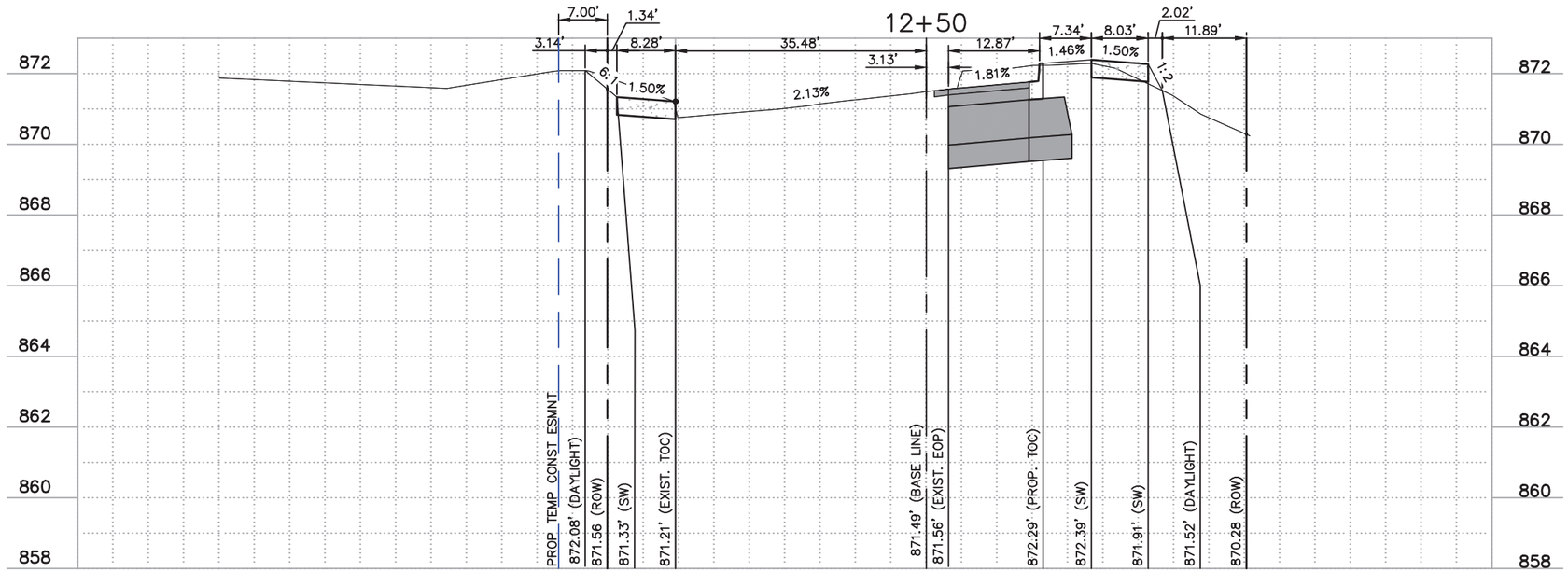

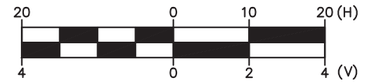

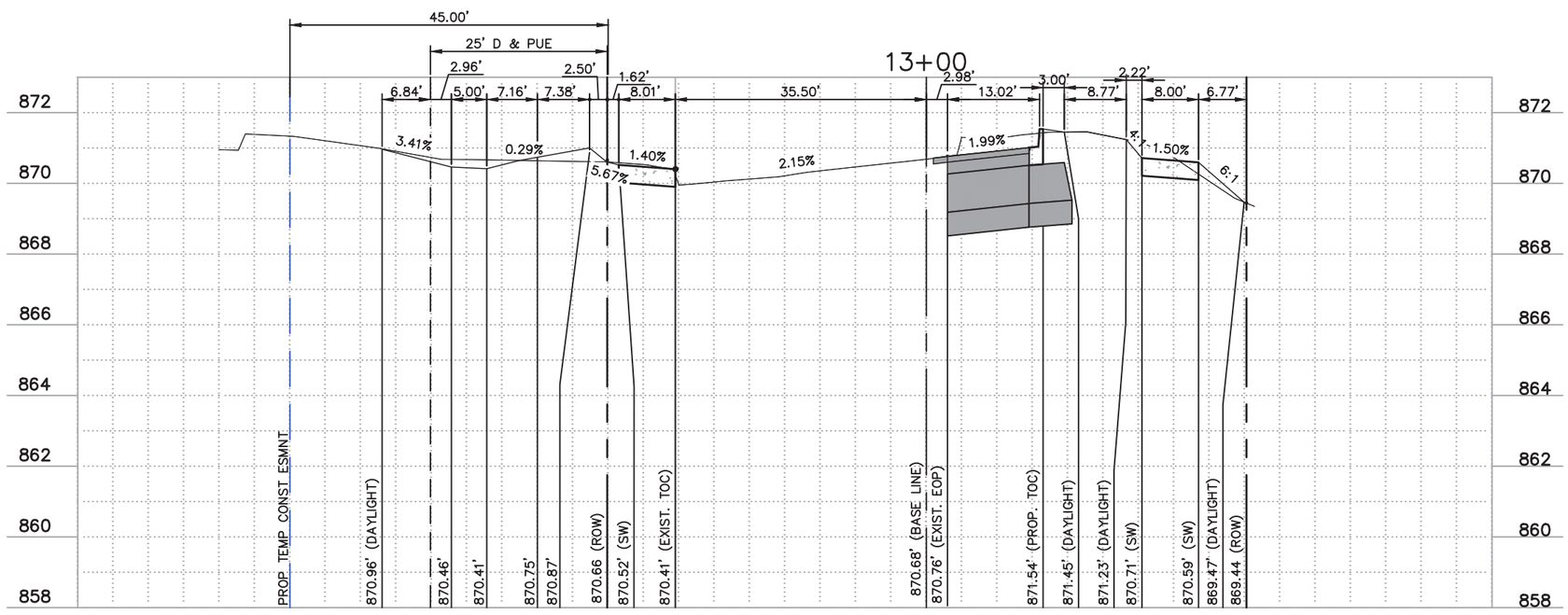

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STA 12+50 – 13+00

SHEET 232 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				232

SP-2016-0186D

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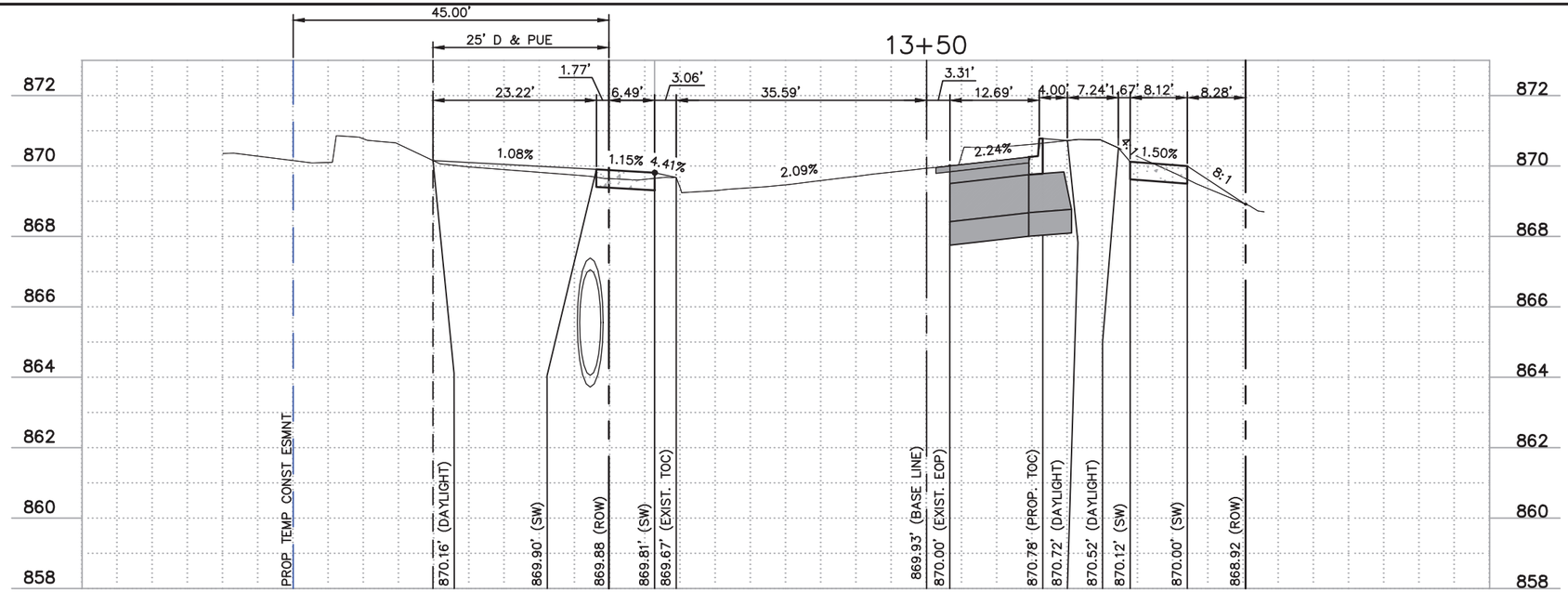

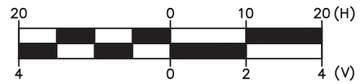

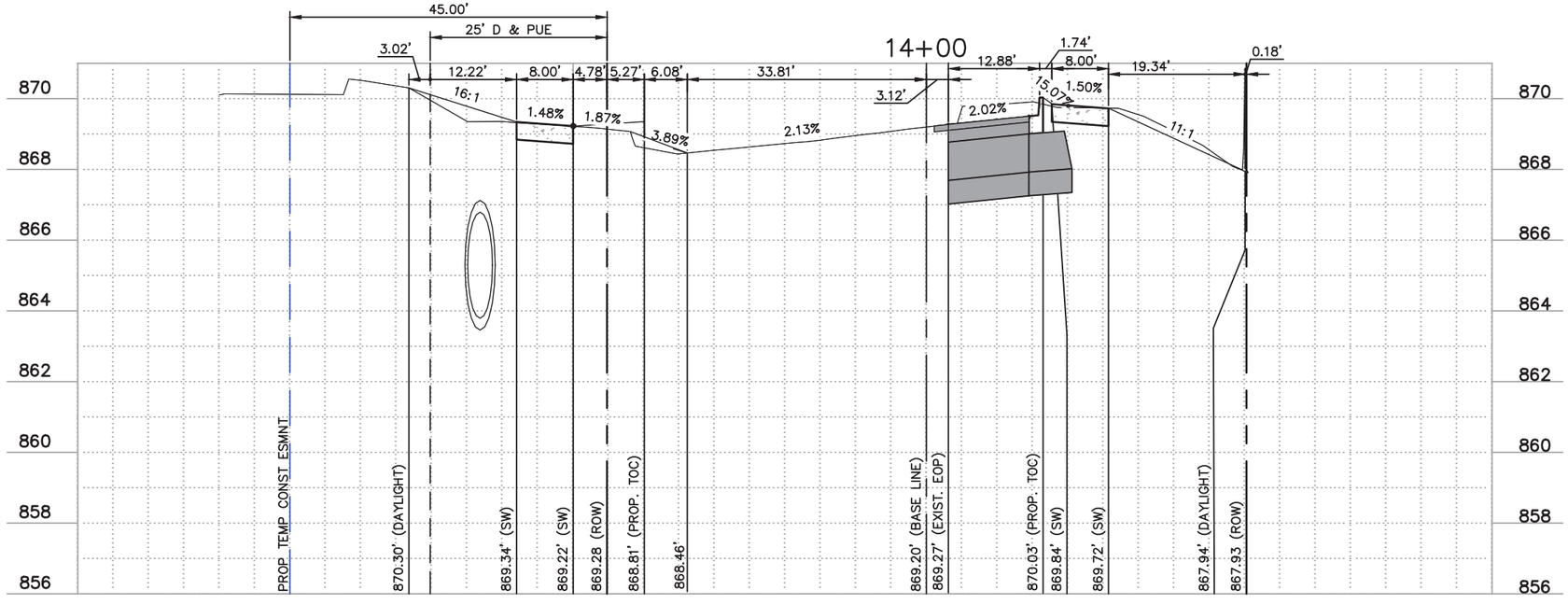

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SHEET 233 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	–	14	WILLIAMSON				233

SP-2016-0186D

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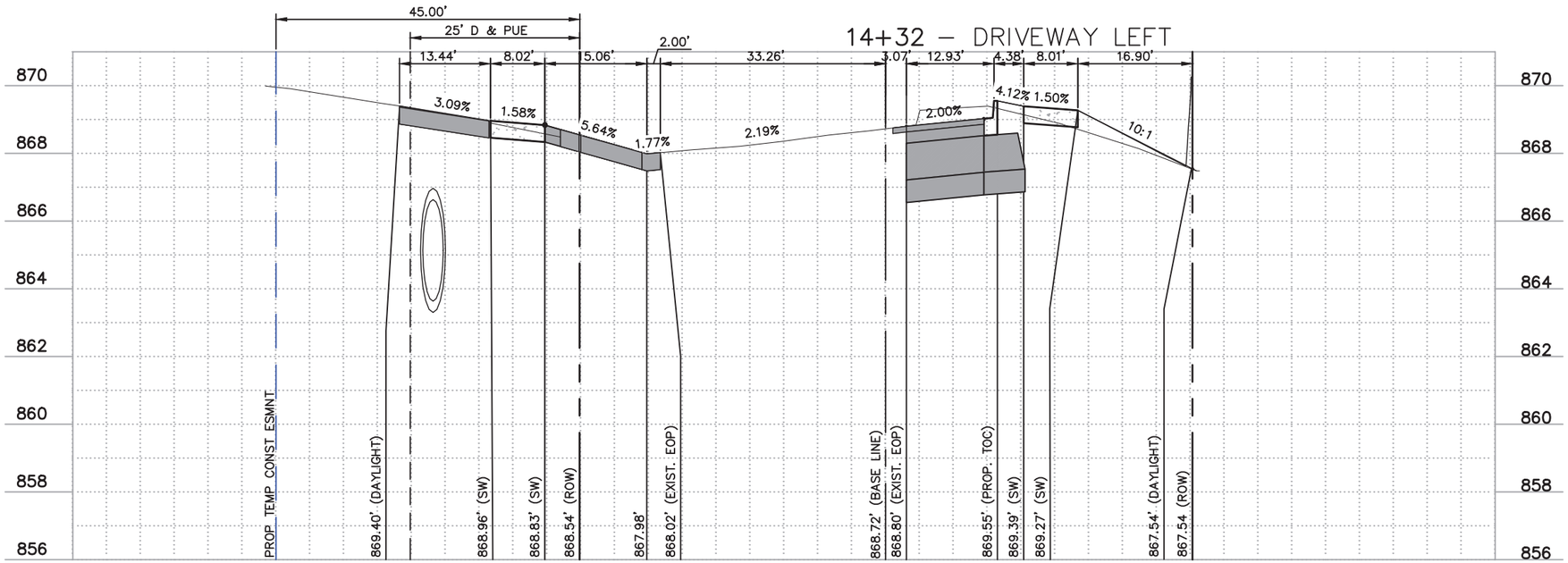

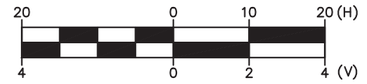

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STA 14+32

SHEET 234 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				234

SP-2016-0186D

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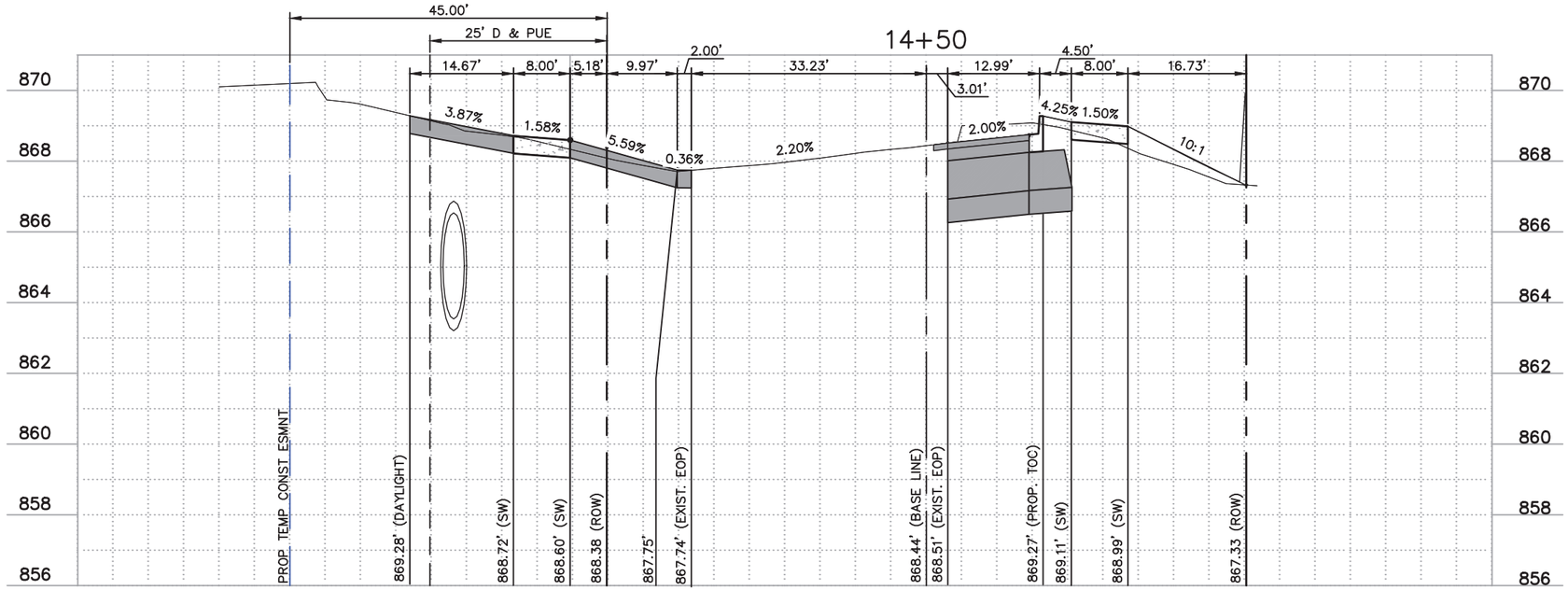

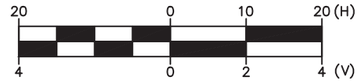

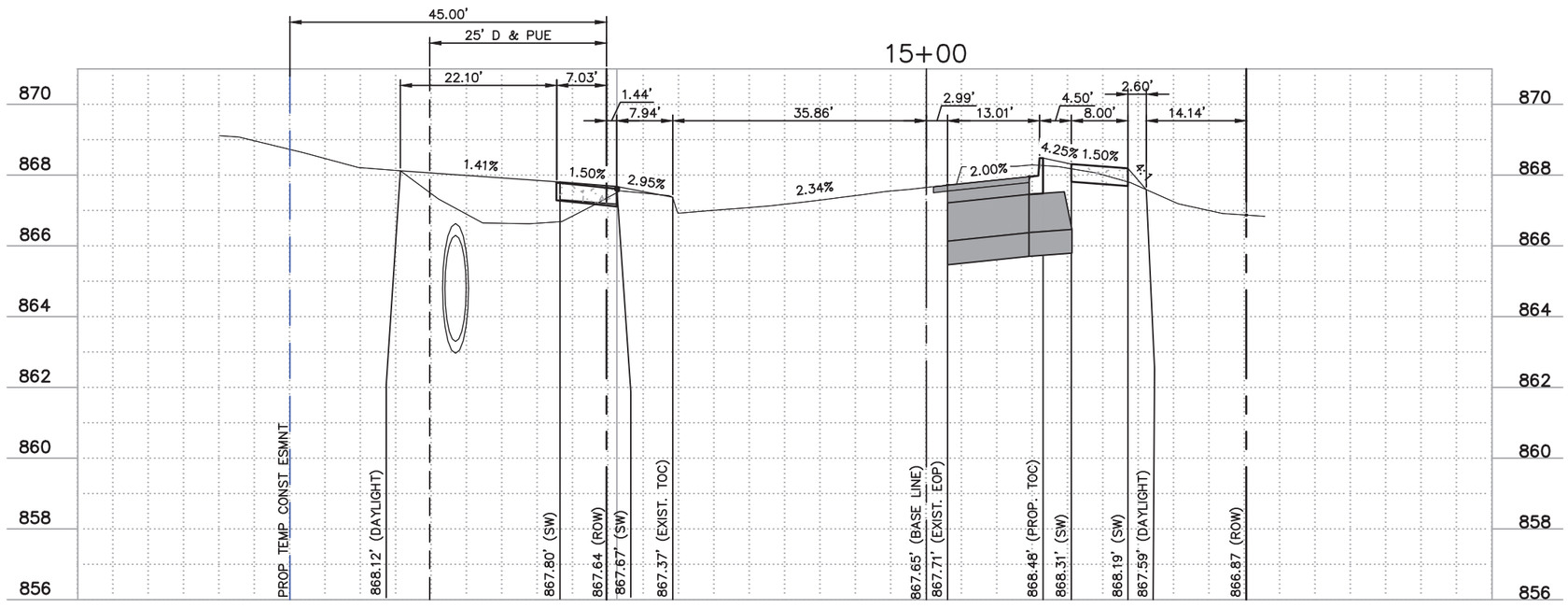

8-4-17

STATE OF TEXAS
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STA 14+50 – 15+00

SHEET 235 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	–	14	WILLIAMSON				235

SP-2016-0186D

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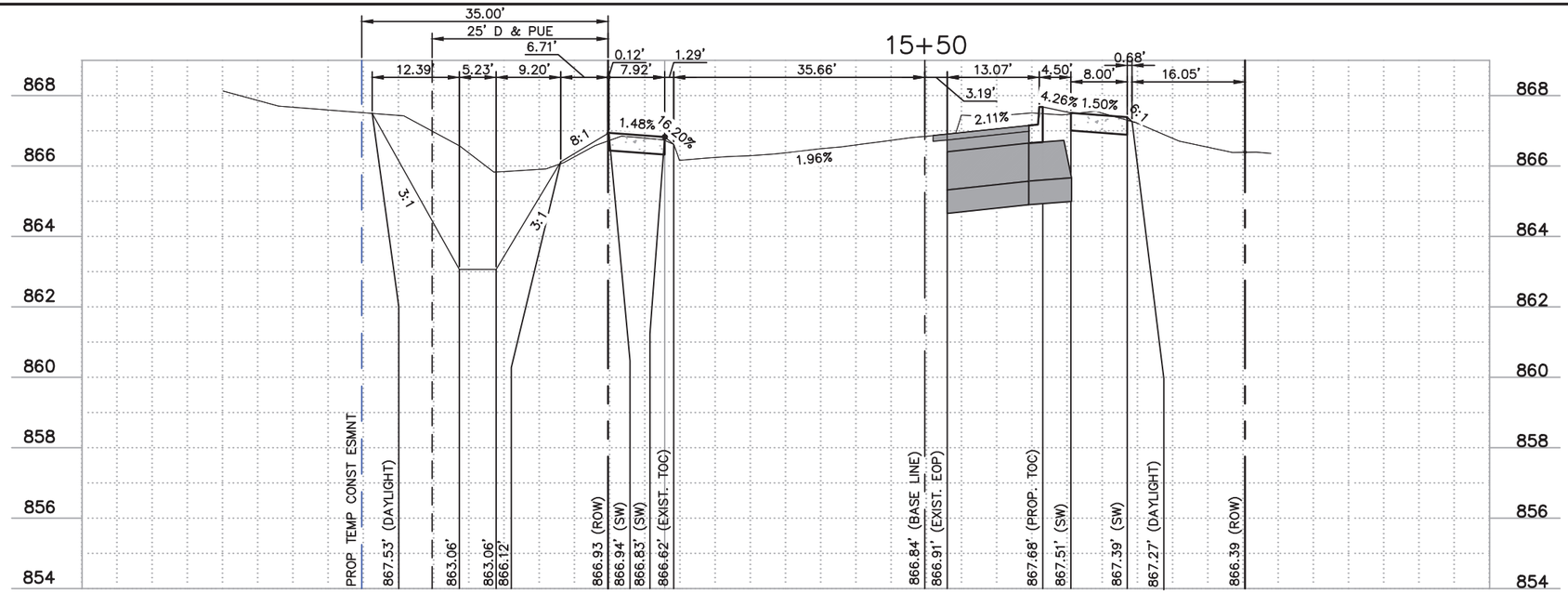

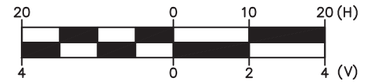

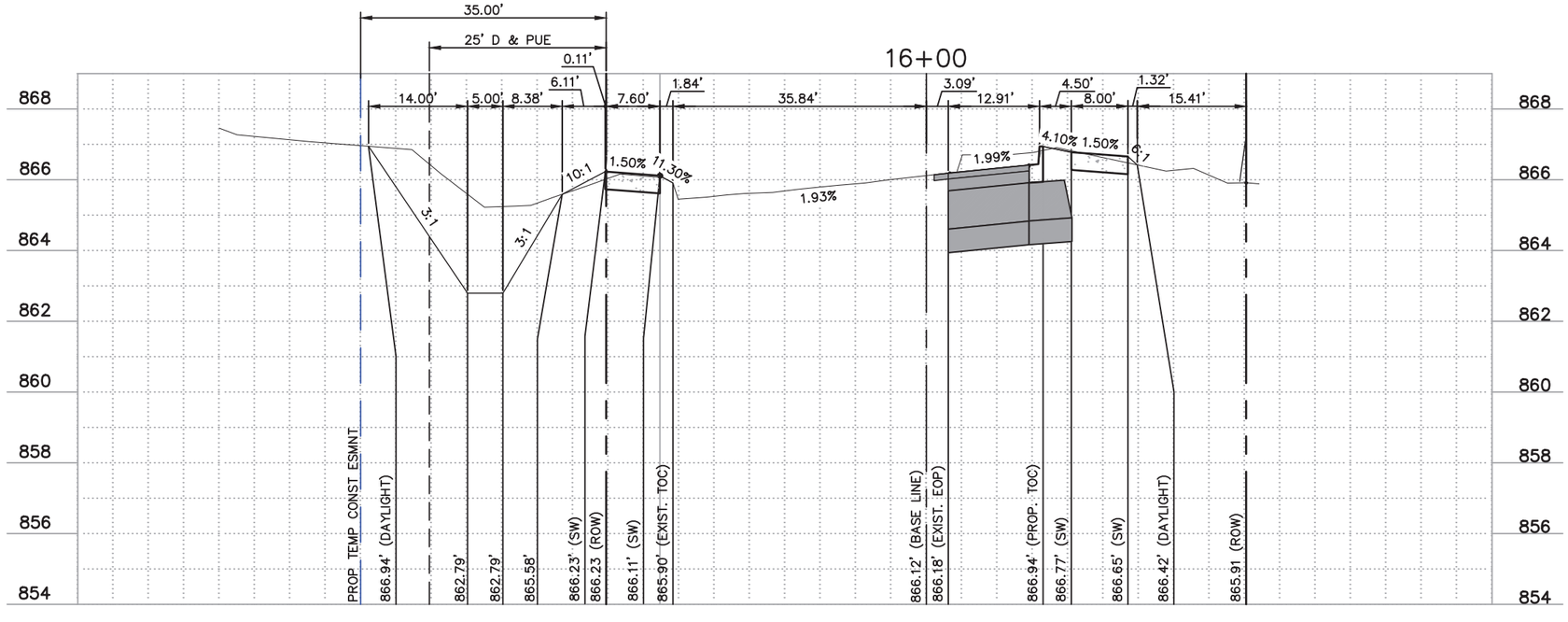

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				236

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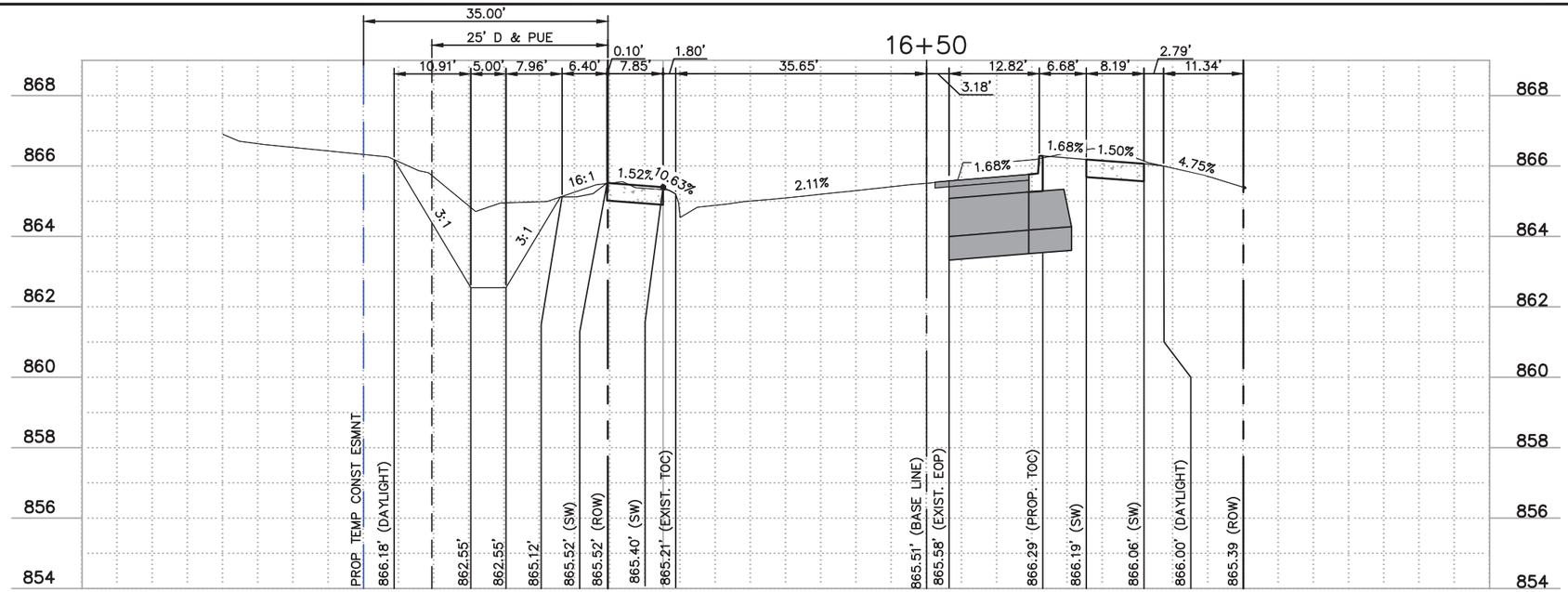

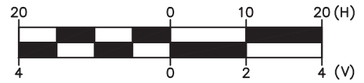

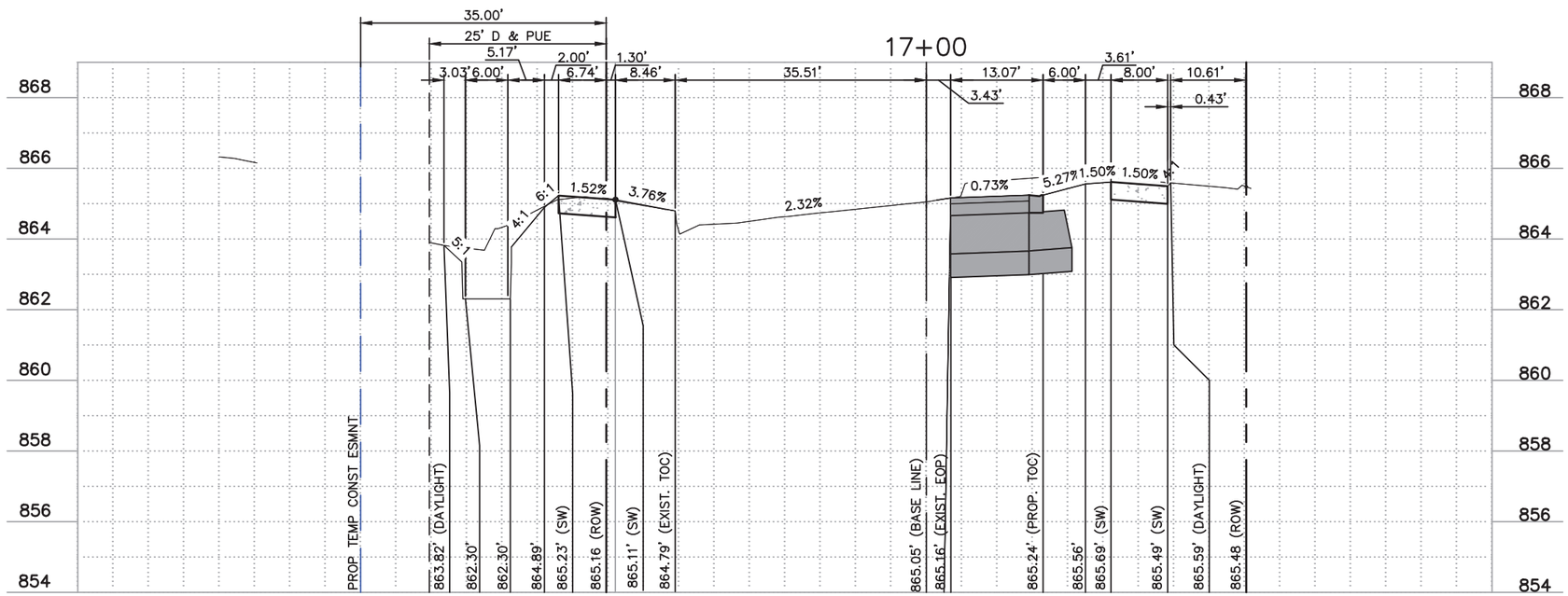

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				237

SP-2016-0186D

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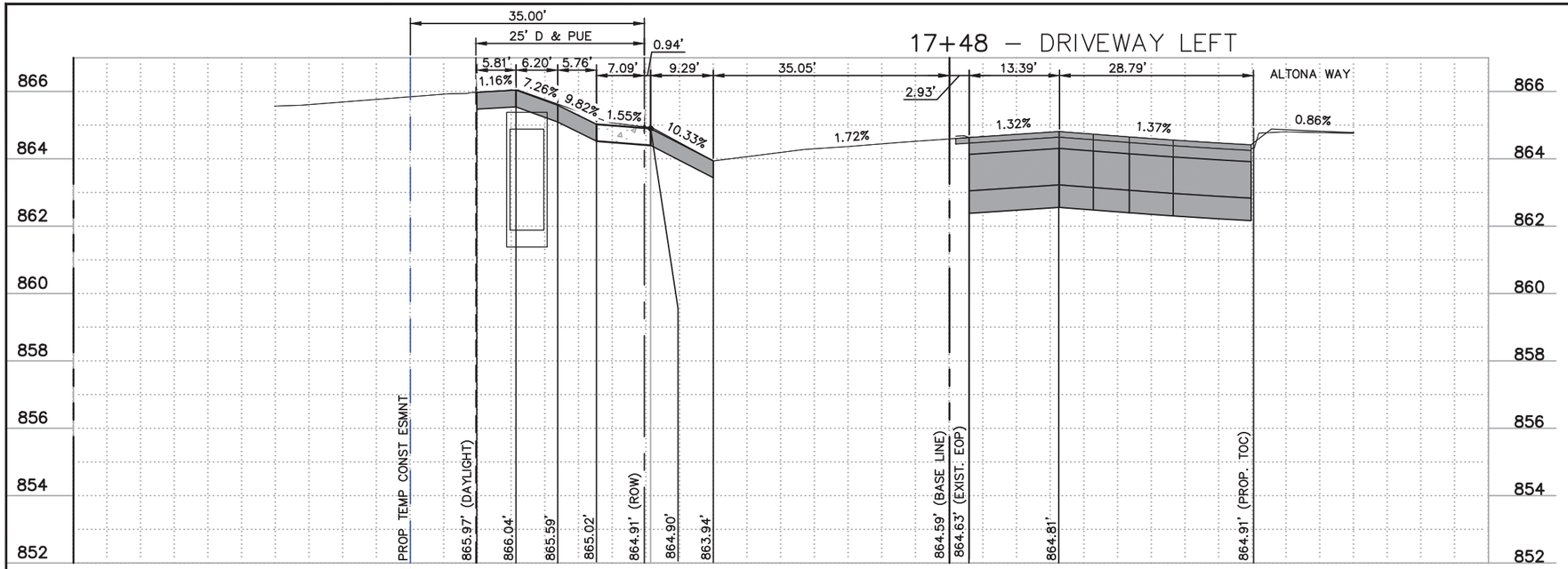

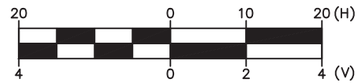

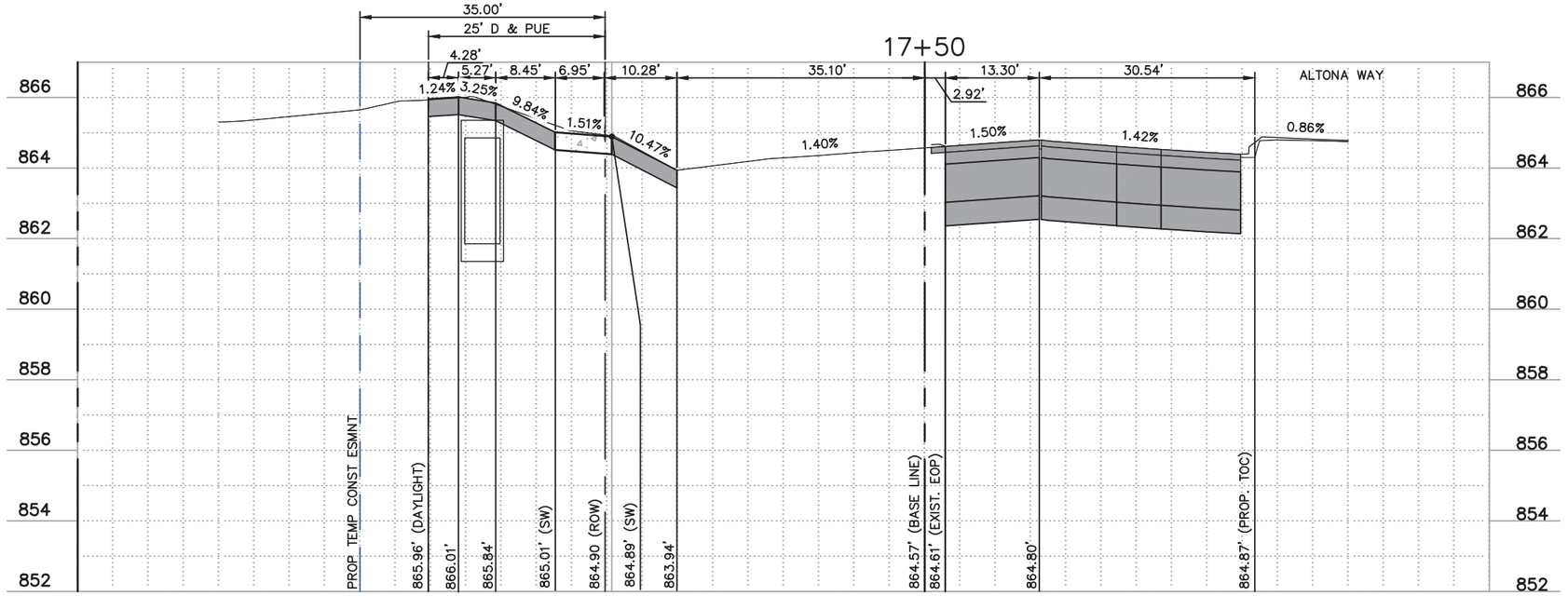

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	–	14	WILLIAMSON				238

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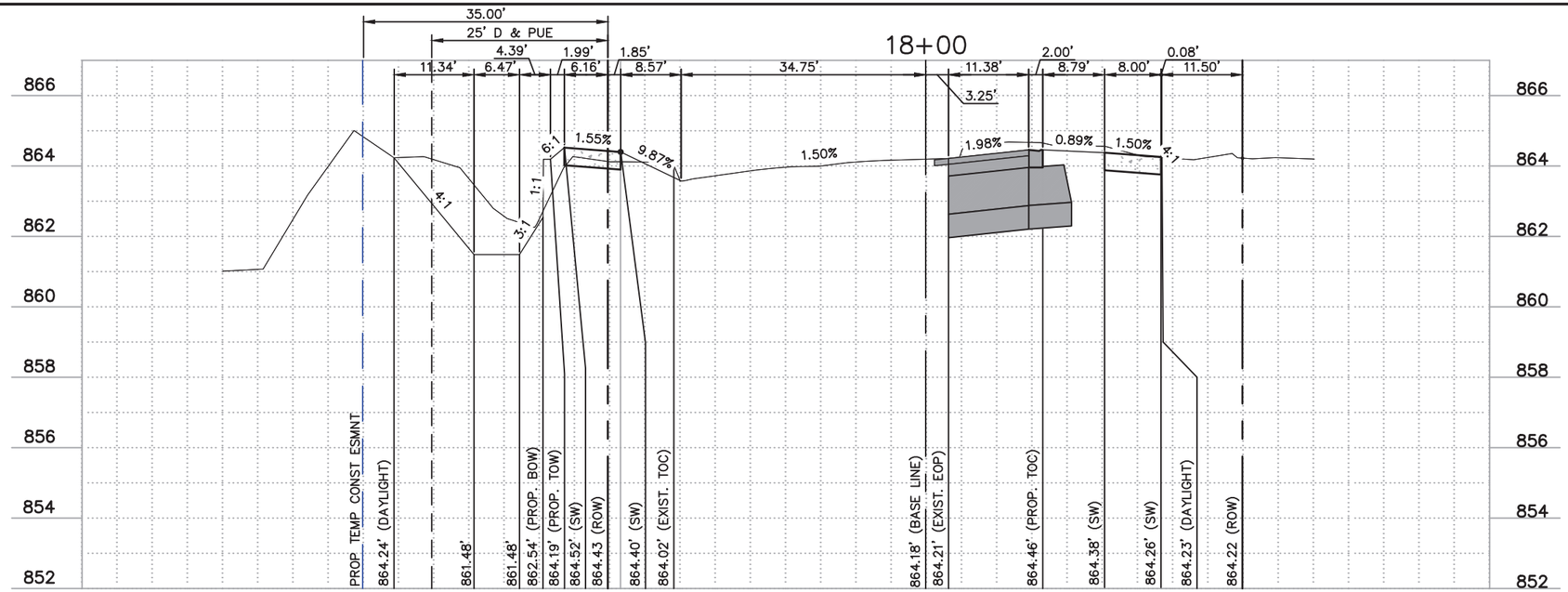

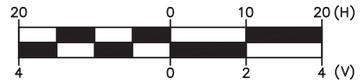

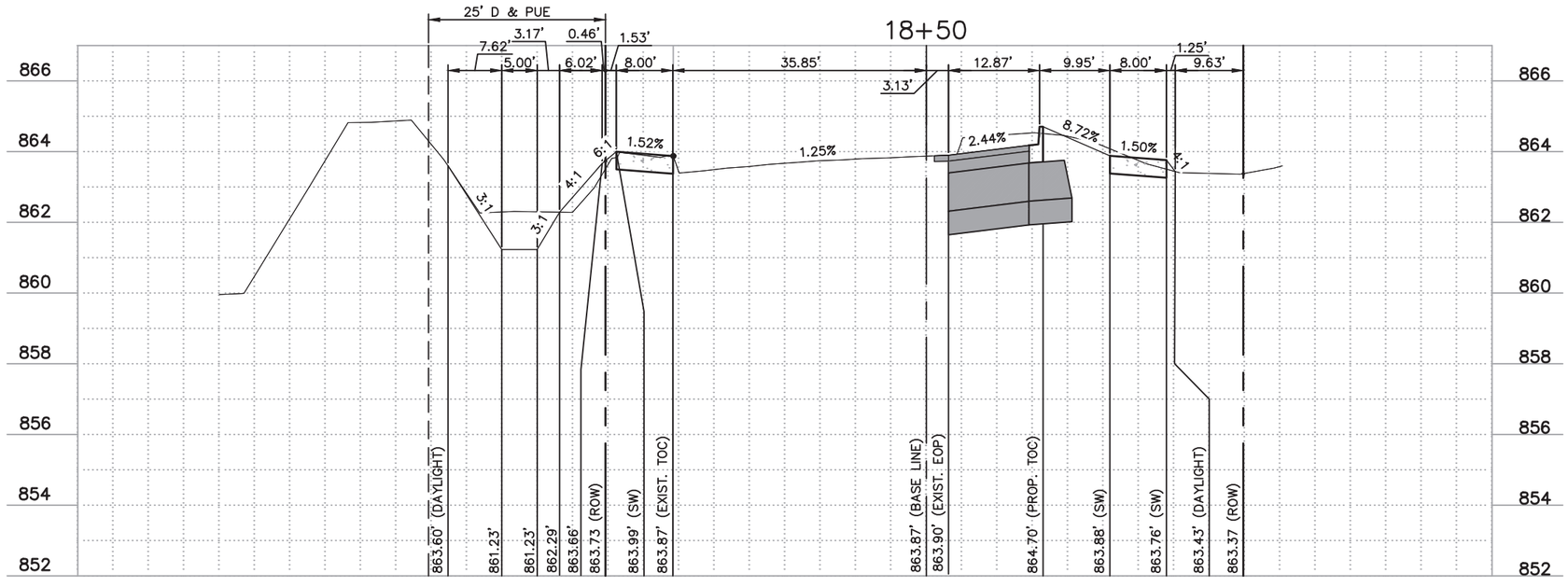

8.4.17

STATE OF TEXAS
STEPHANIE D. BLEW
92682
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Stephanie D Blew

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SHEET 239 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				239

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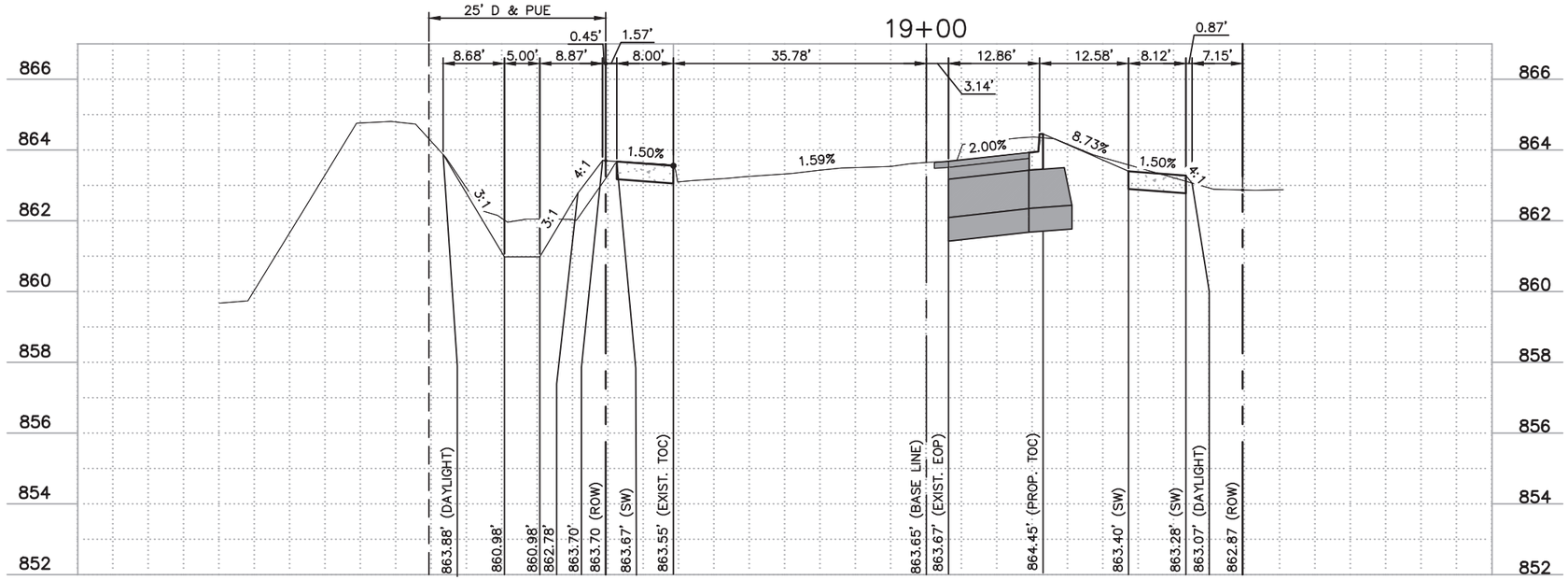

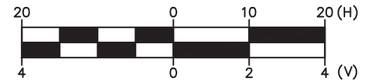

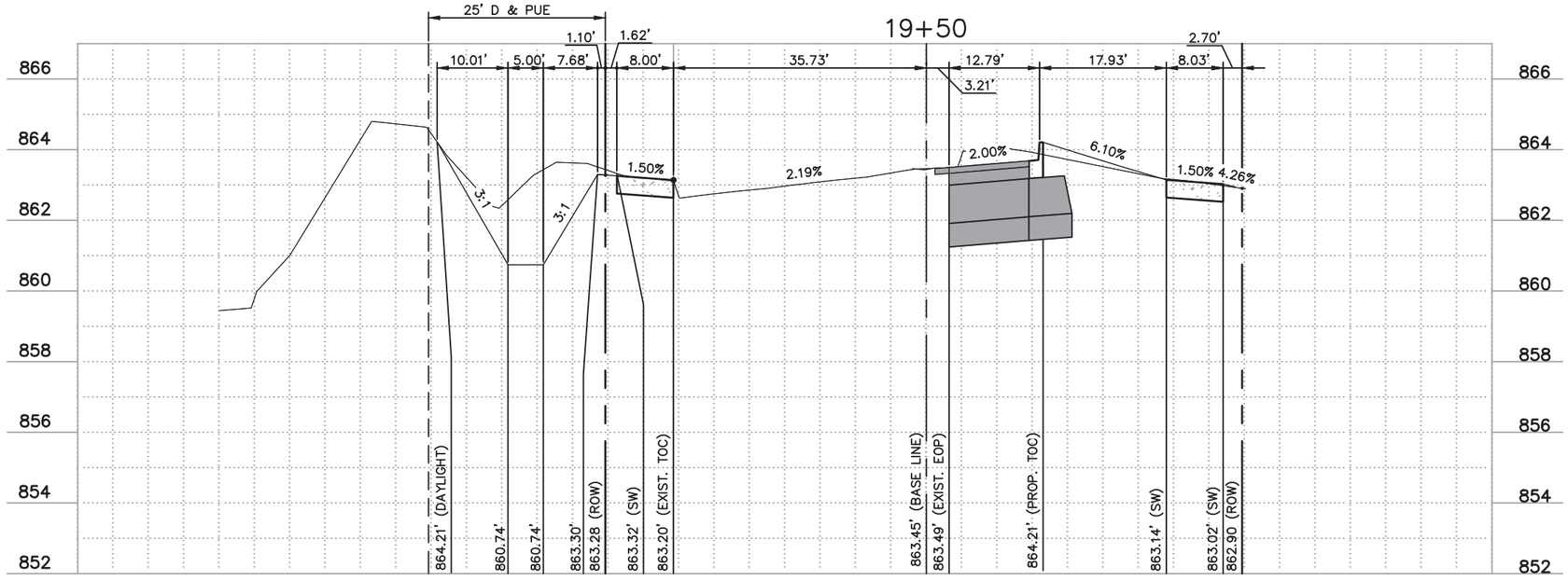

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SHEET 240 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				240

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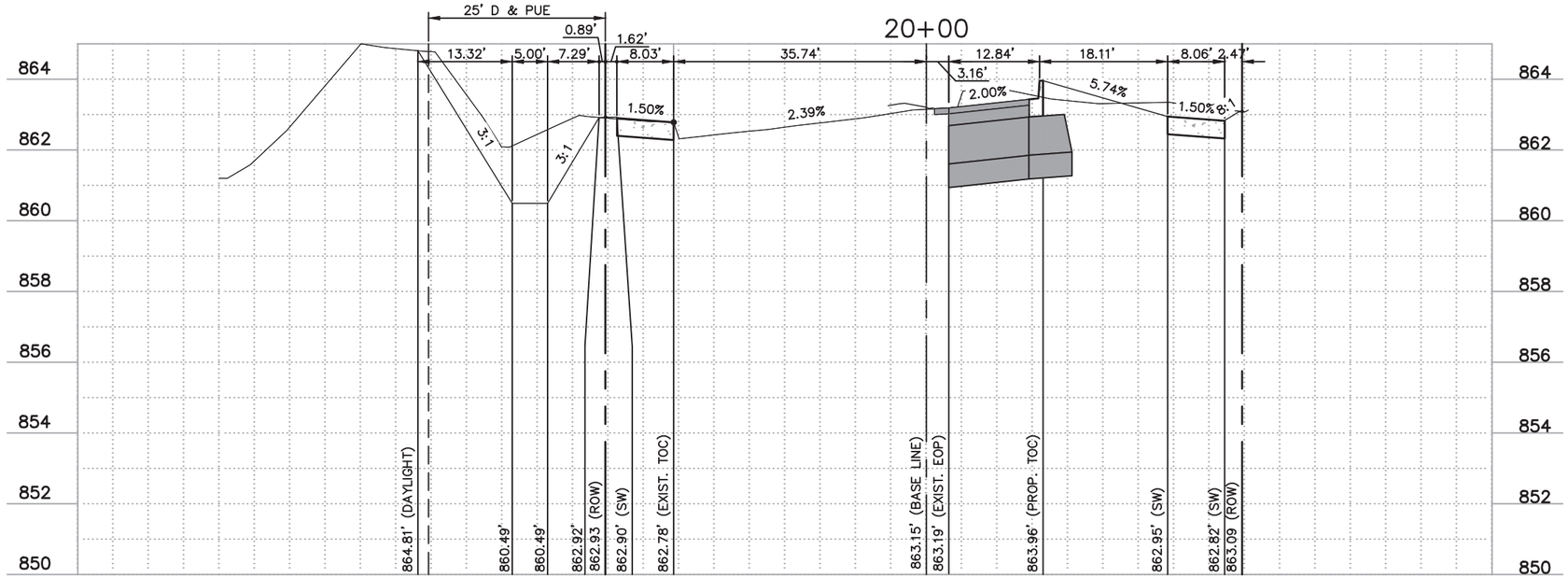

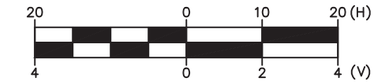

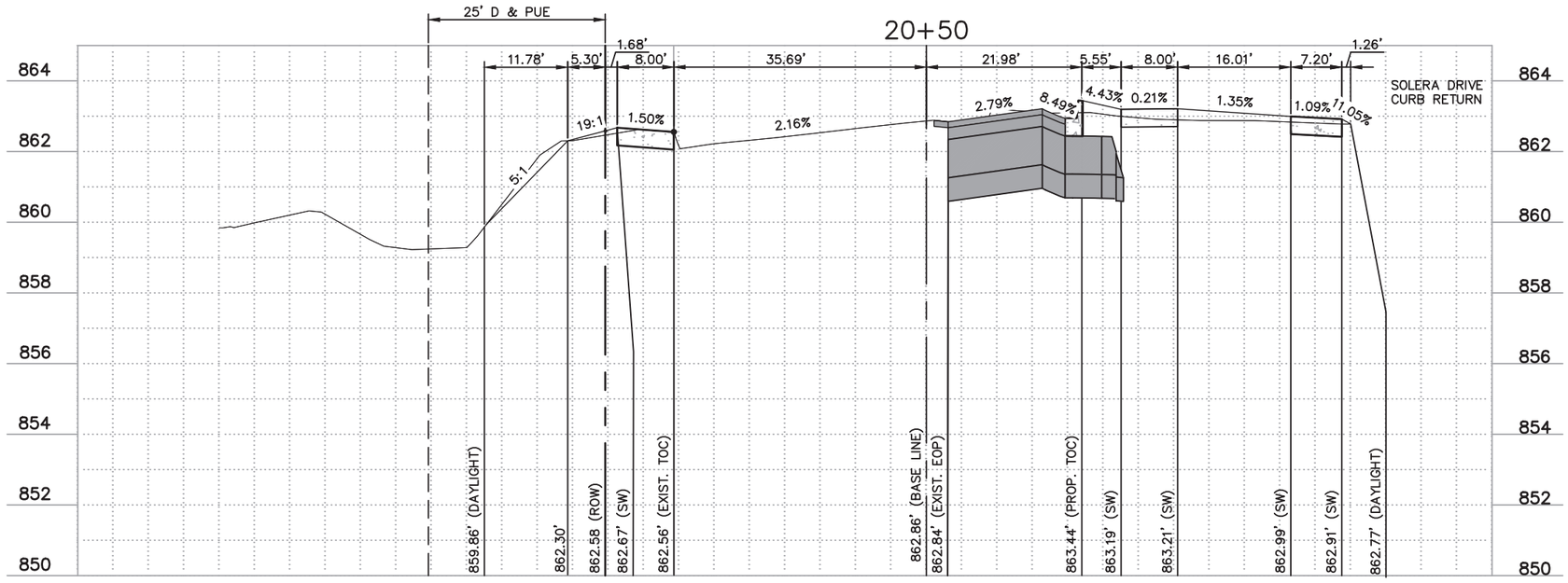

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				241

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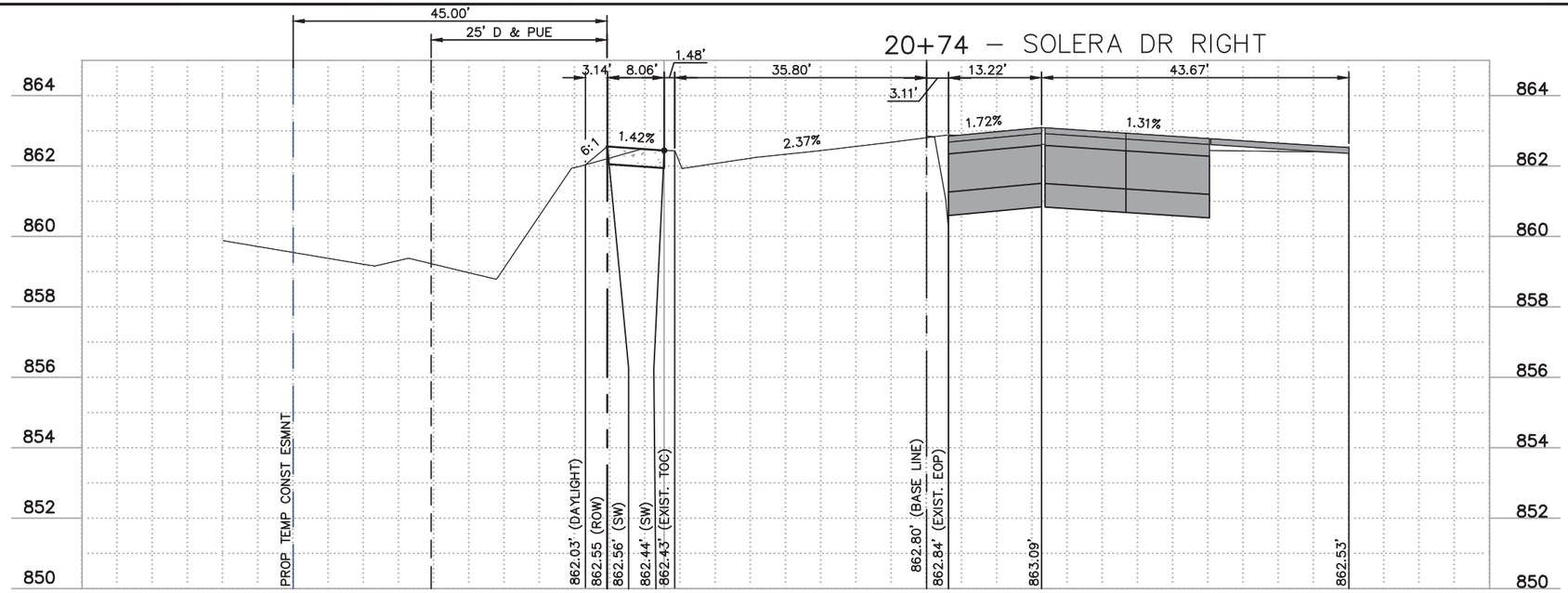

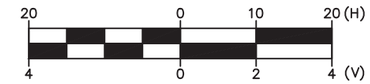

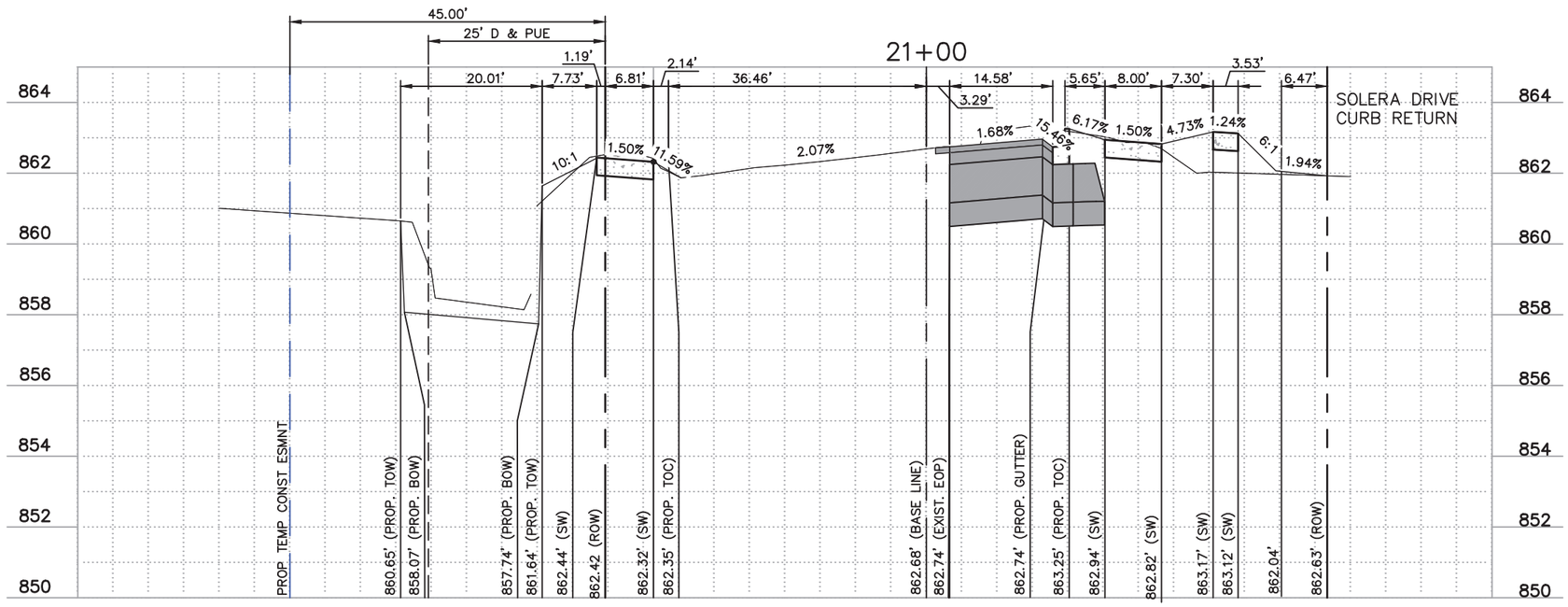

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	–	14	WILLIAMSON				242

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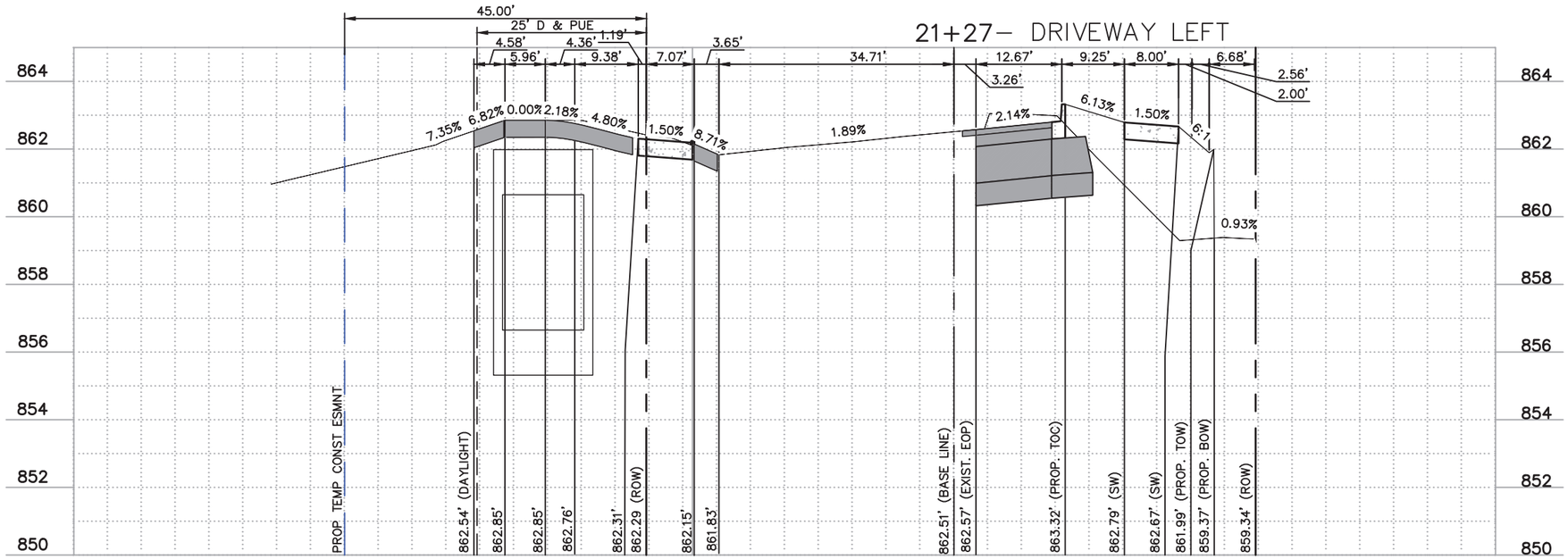

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				243

SP-2016-0186D

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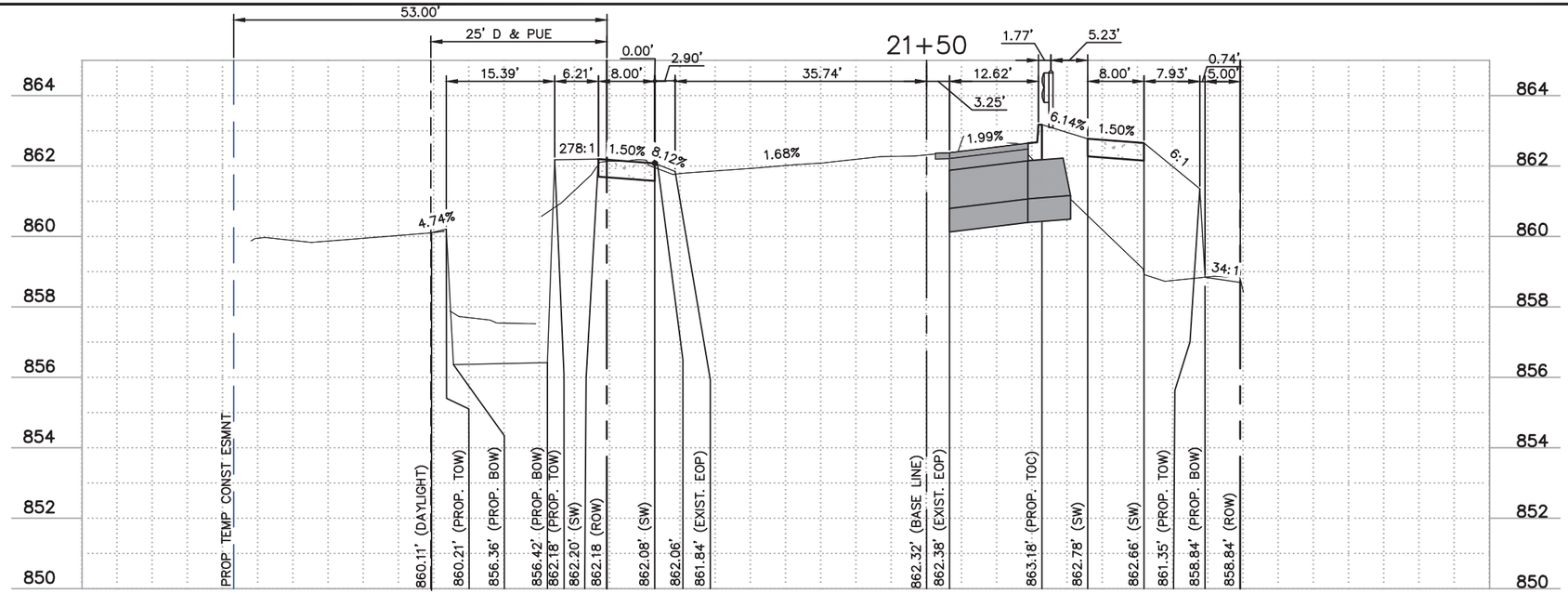

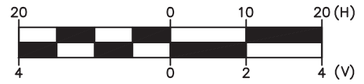

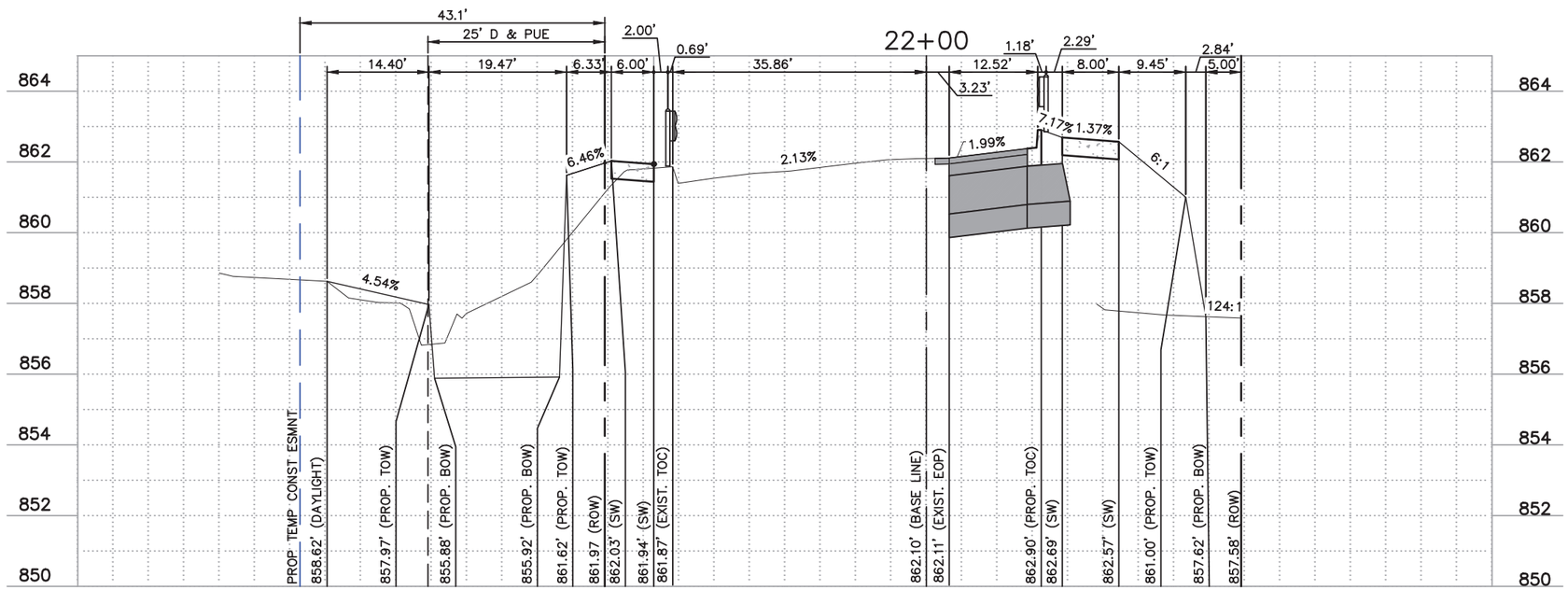

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				244

SP-2016-0186D

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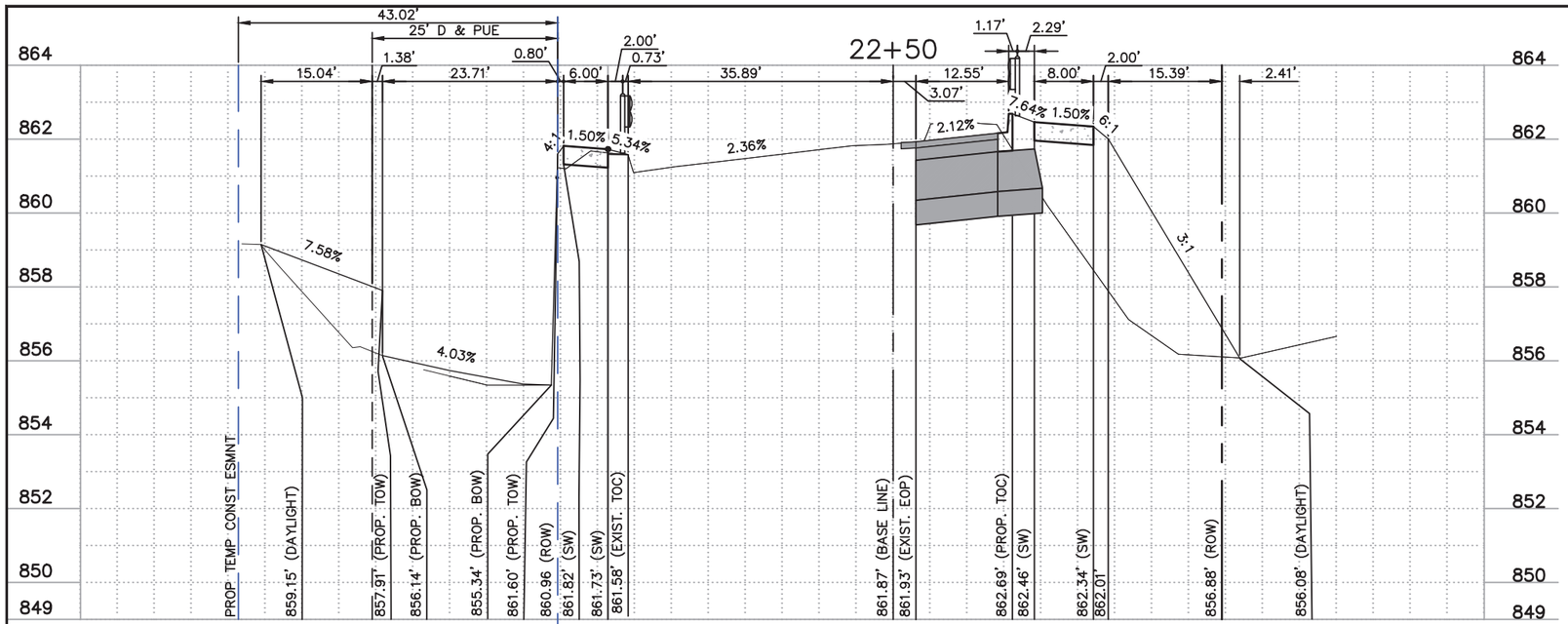

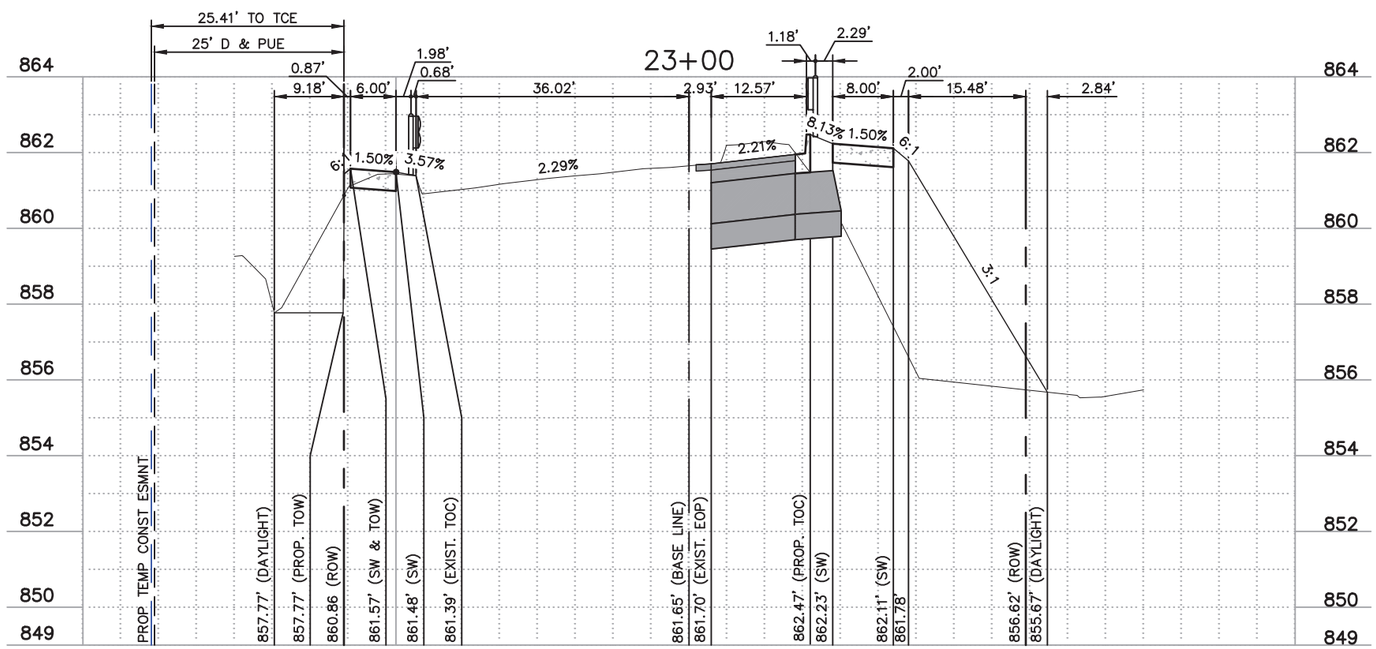

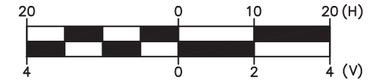

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				245

SP-2016-0186D

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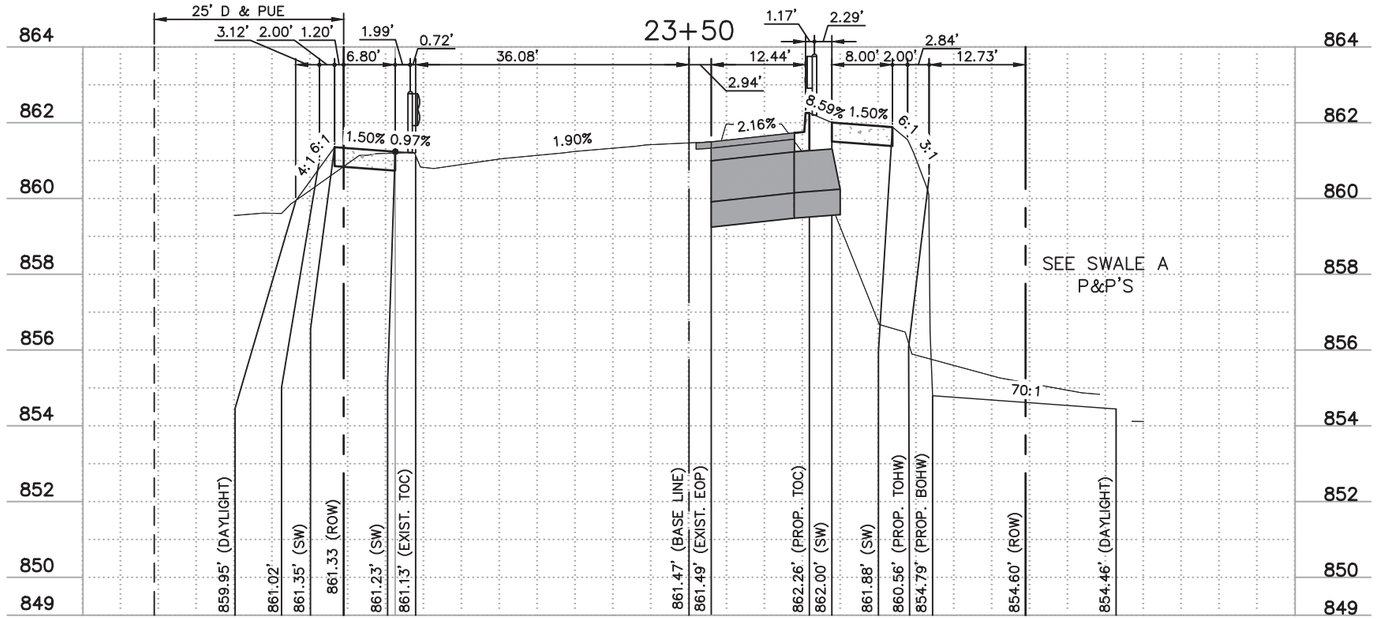

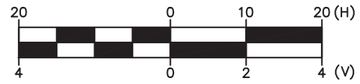

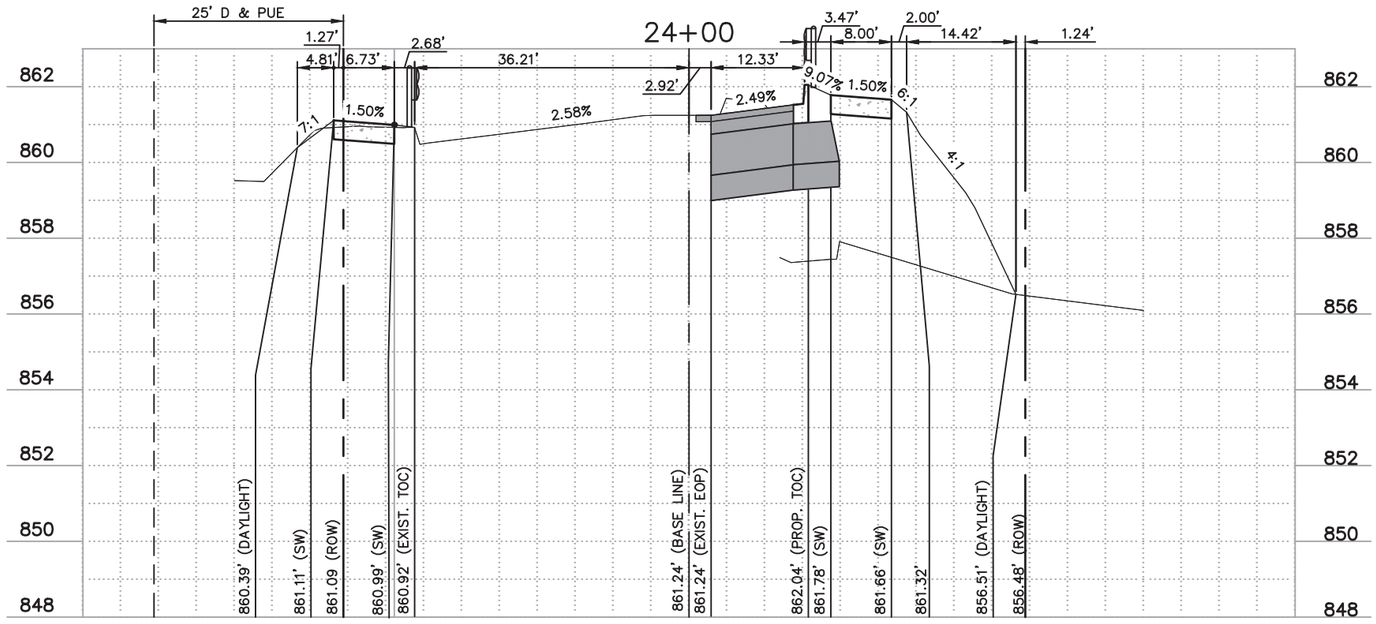

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SHEET 246 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				246

SP-2016-0186D

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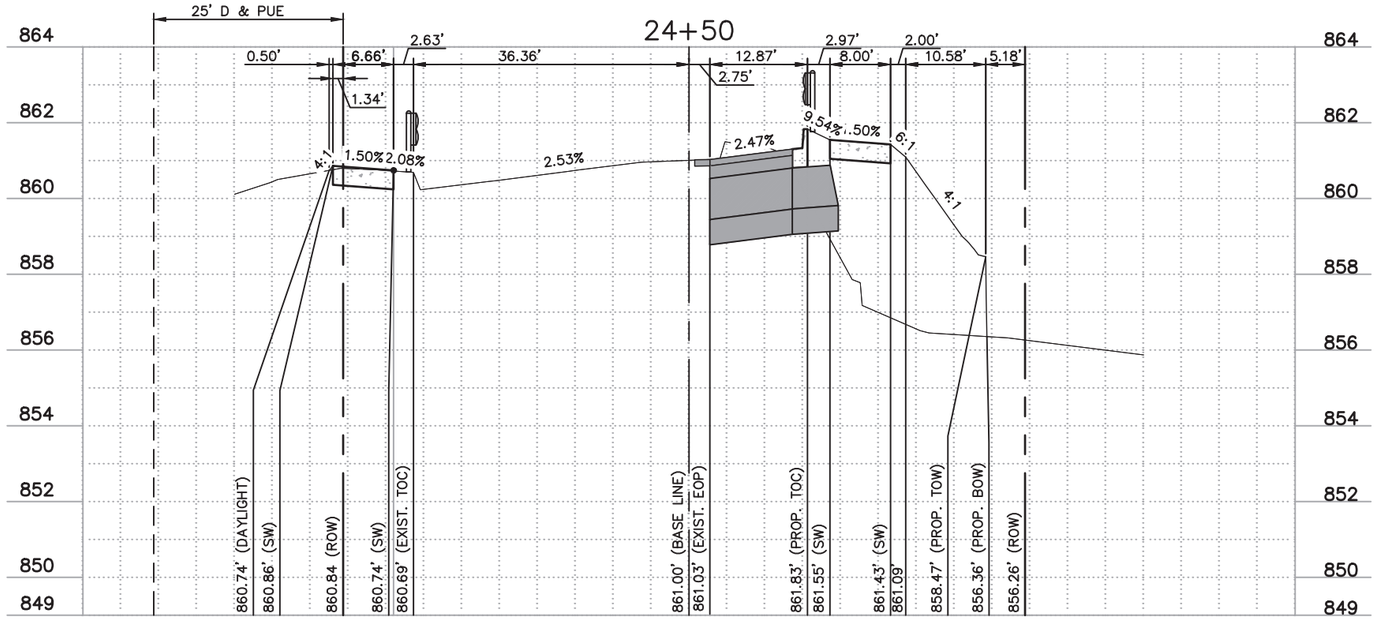

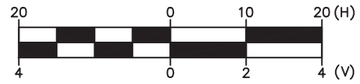

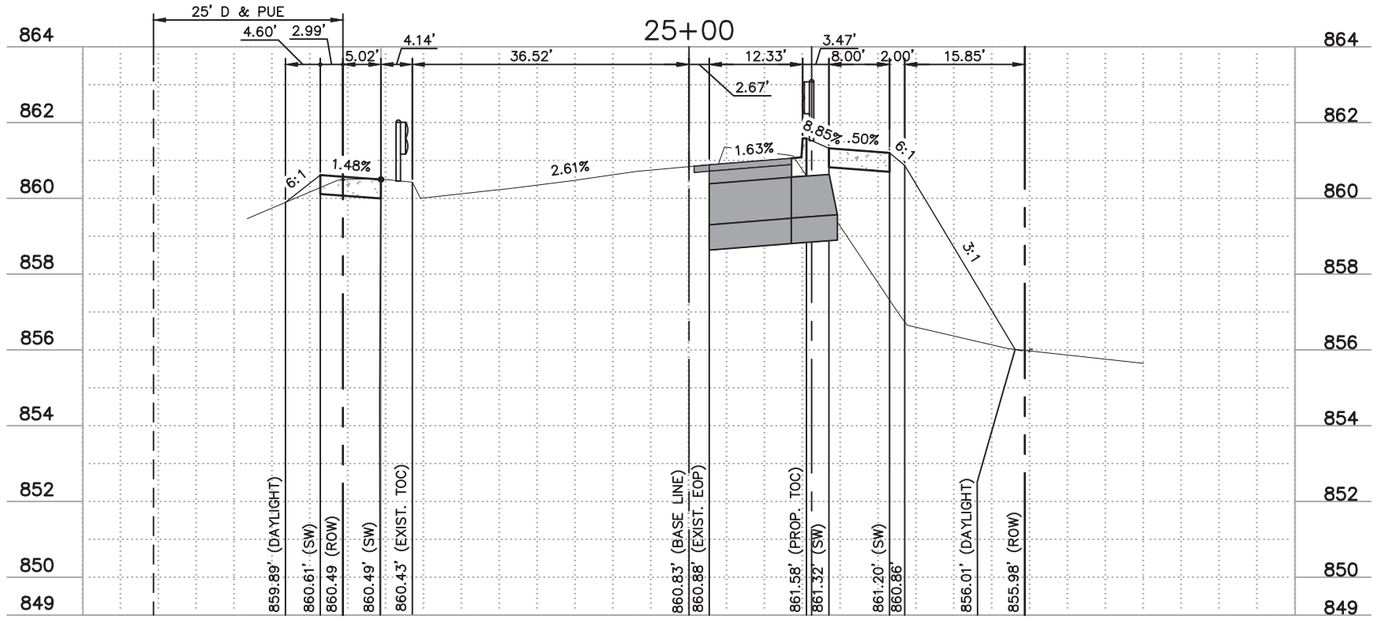

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SHEET 247 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				247

SP-2016-0186D

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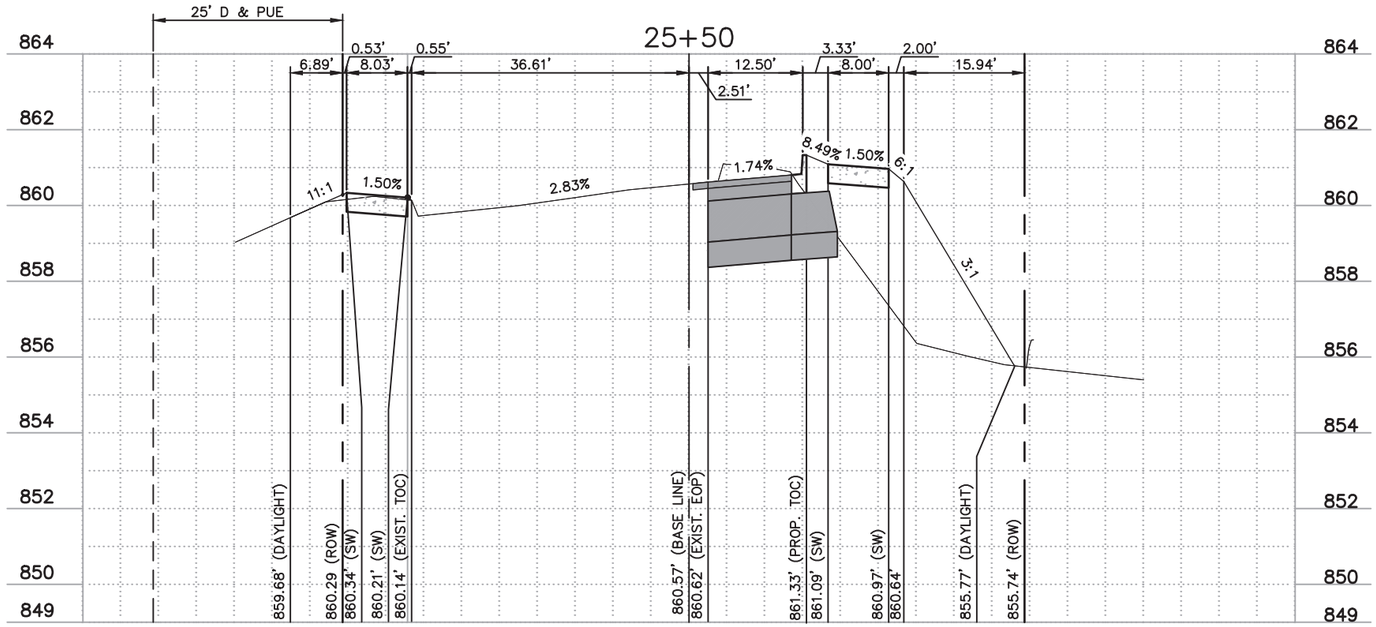

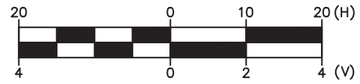

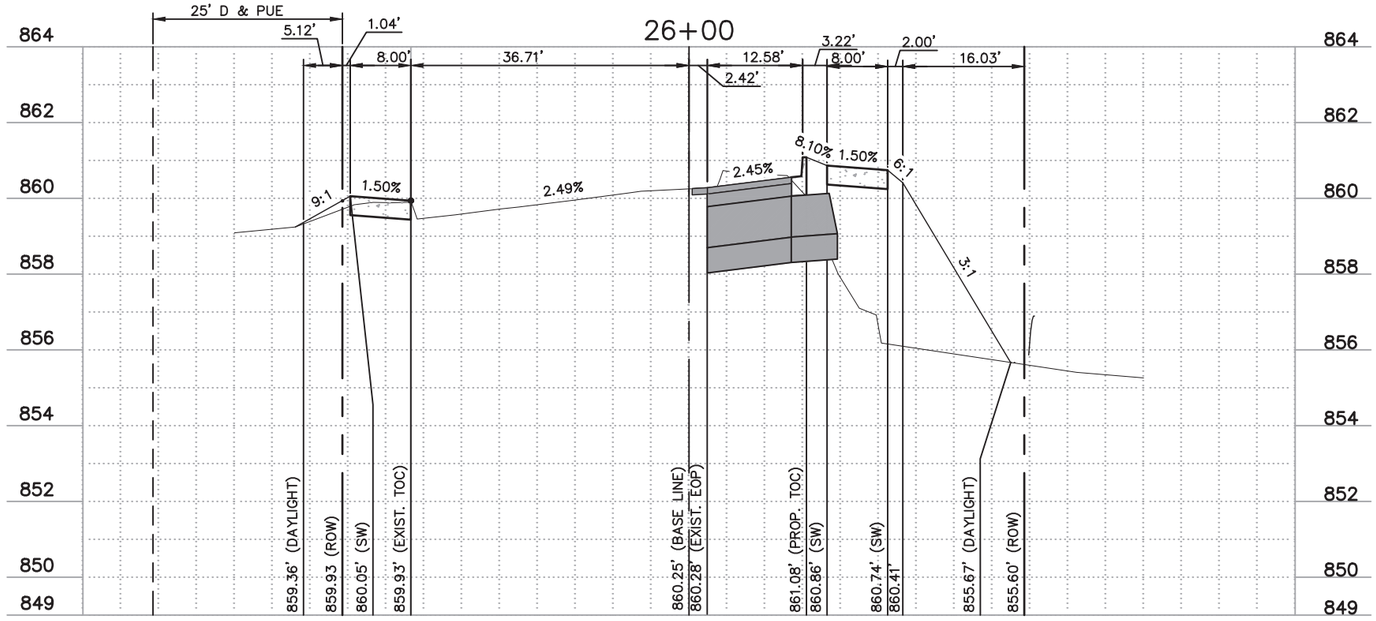

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				248

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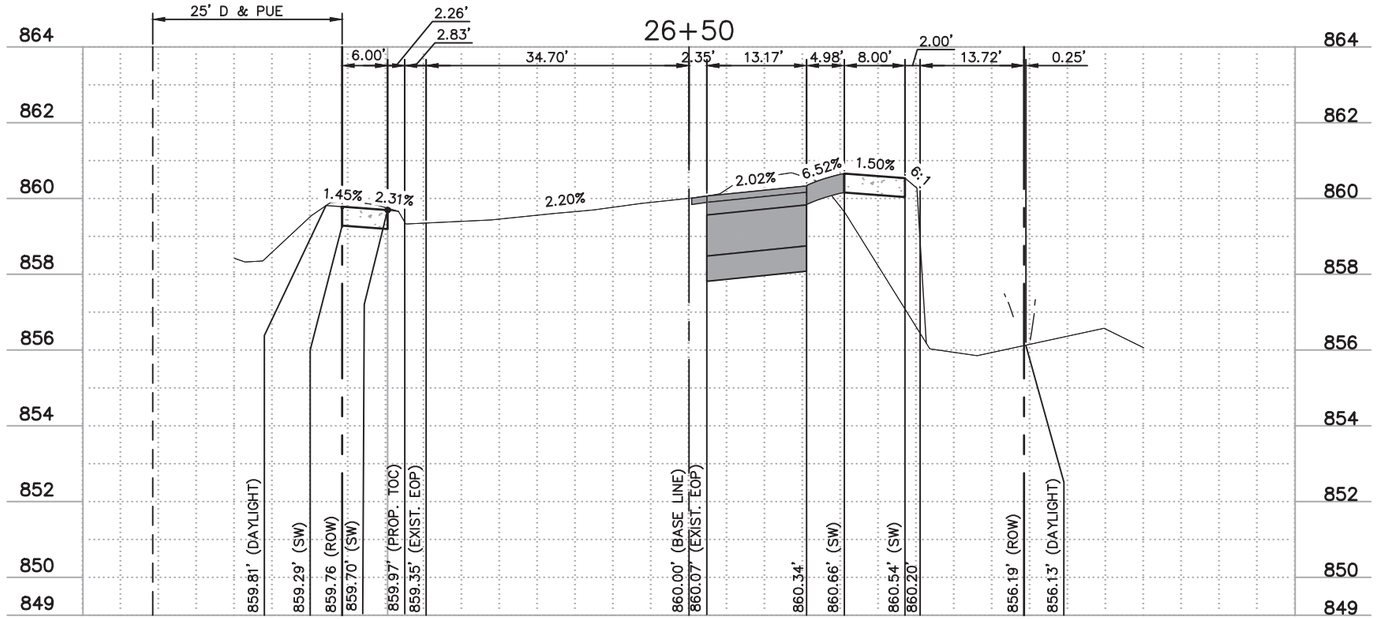

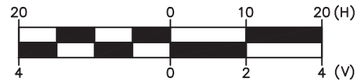

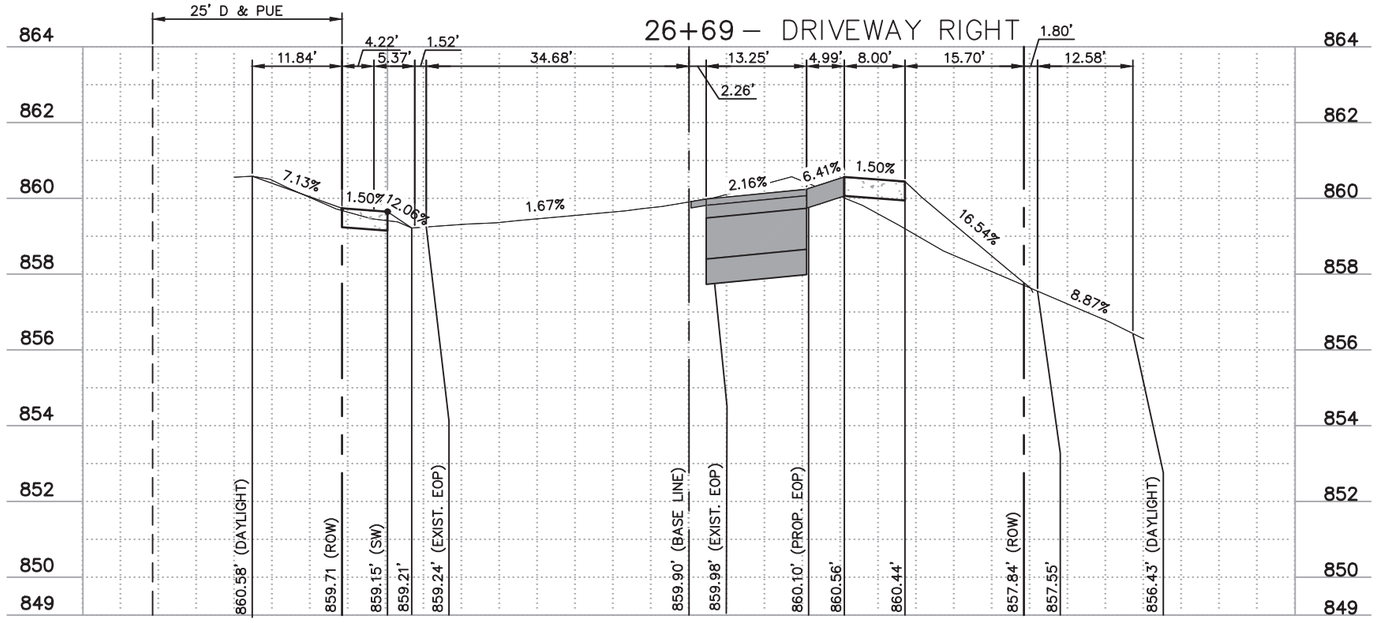

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				249

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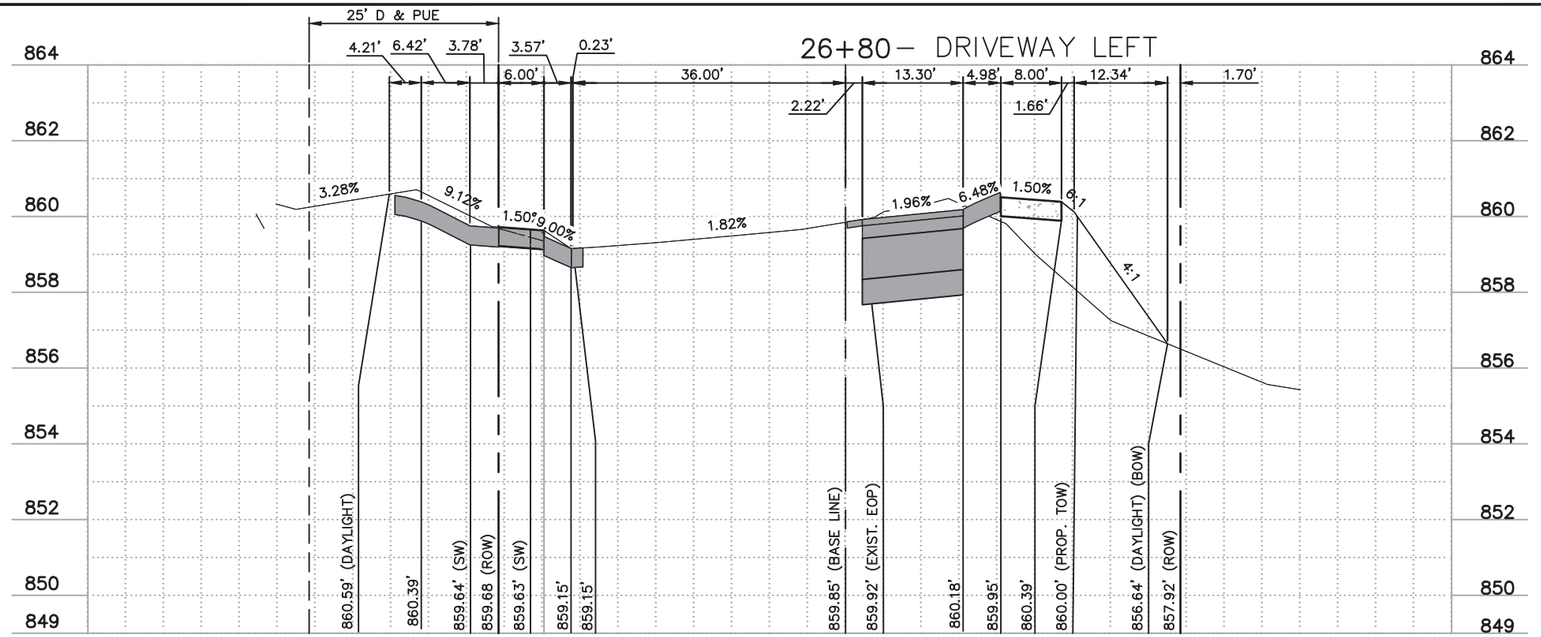

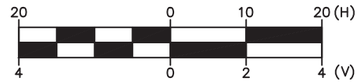

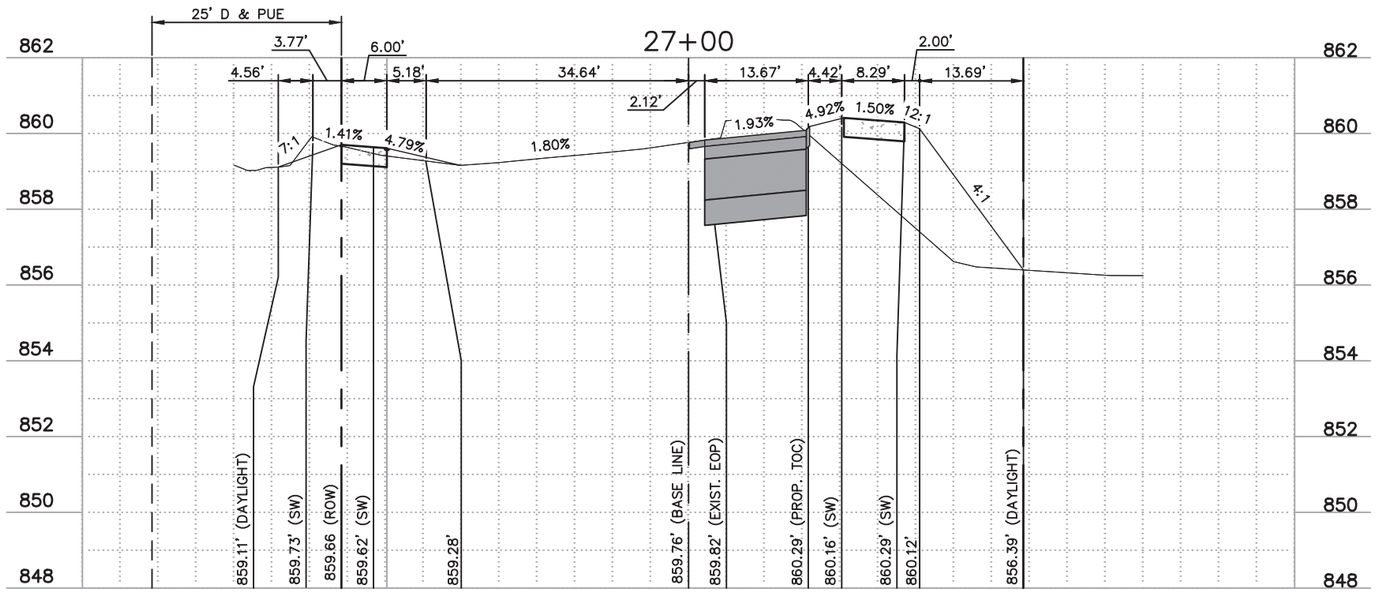

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

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SHEET 250 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				250

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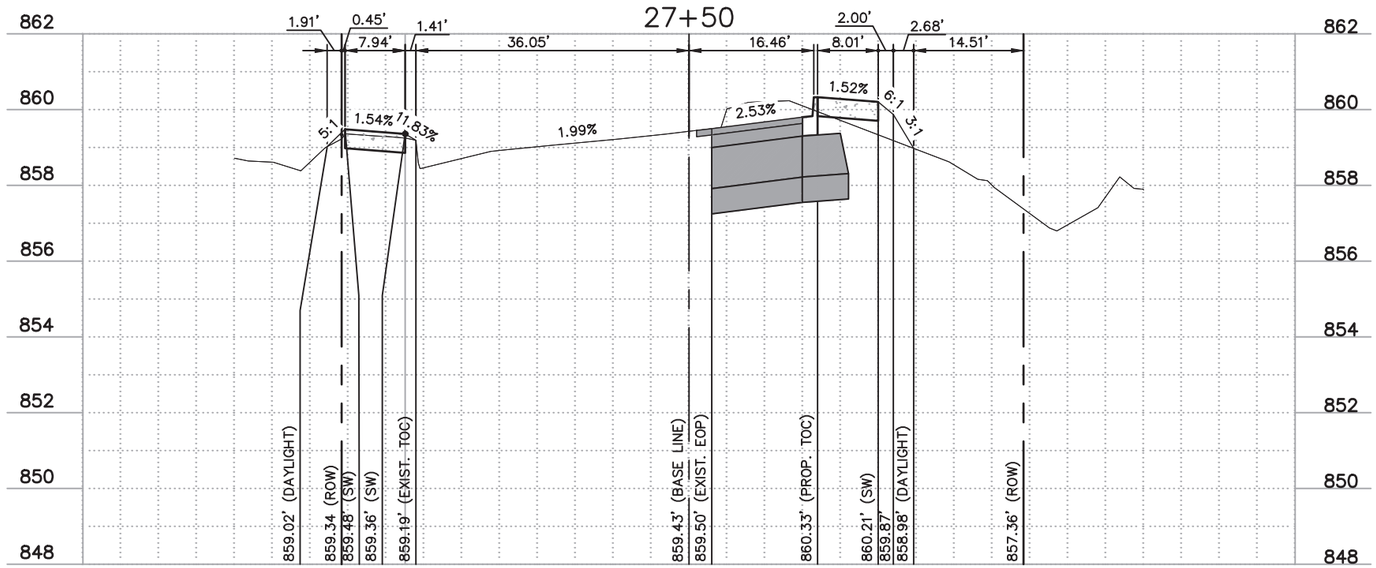

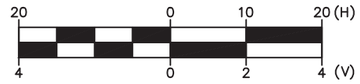

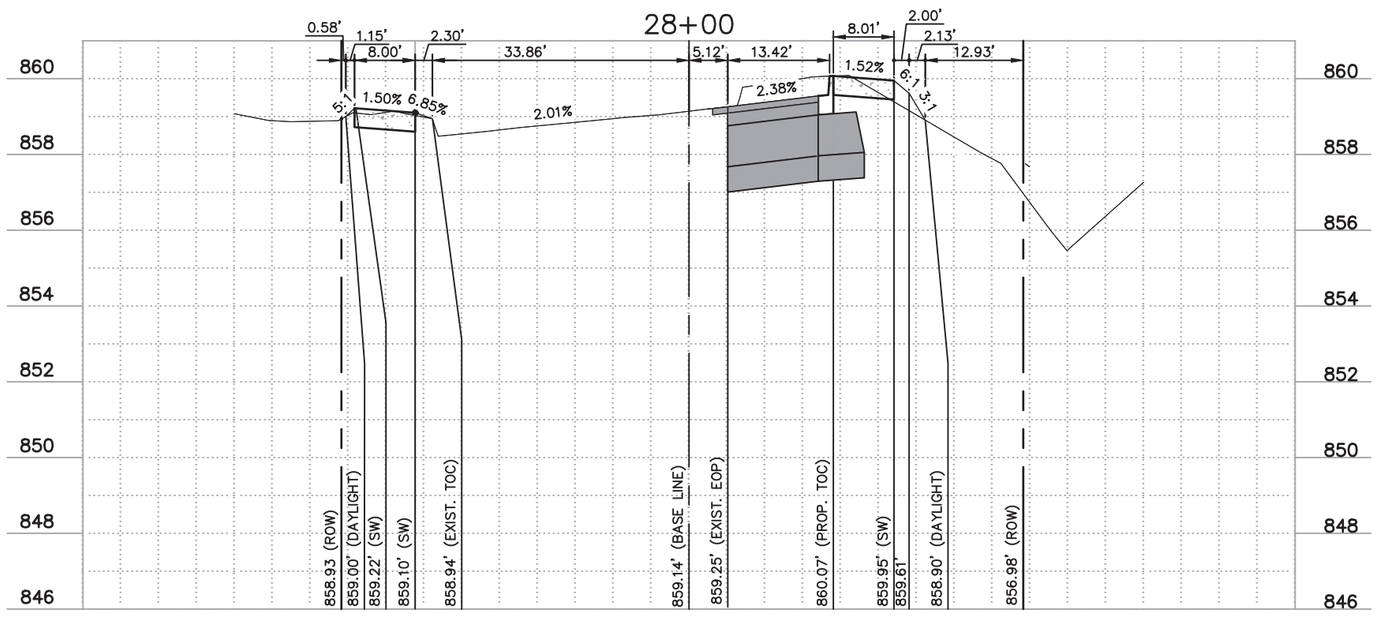

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SHEET 251 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				251

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				252

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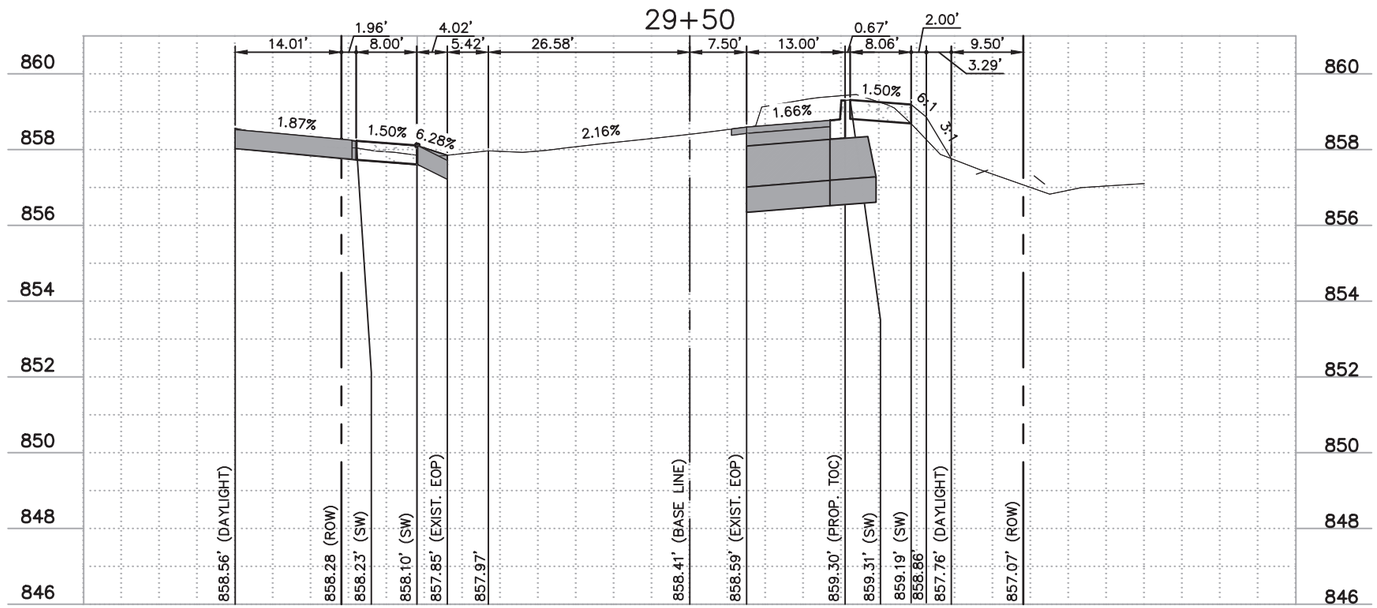

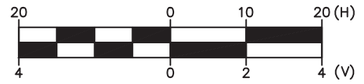

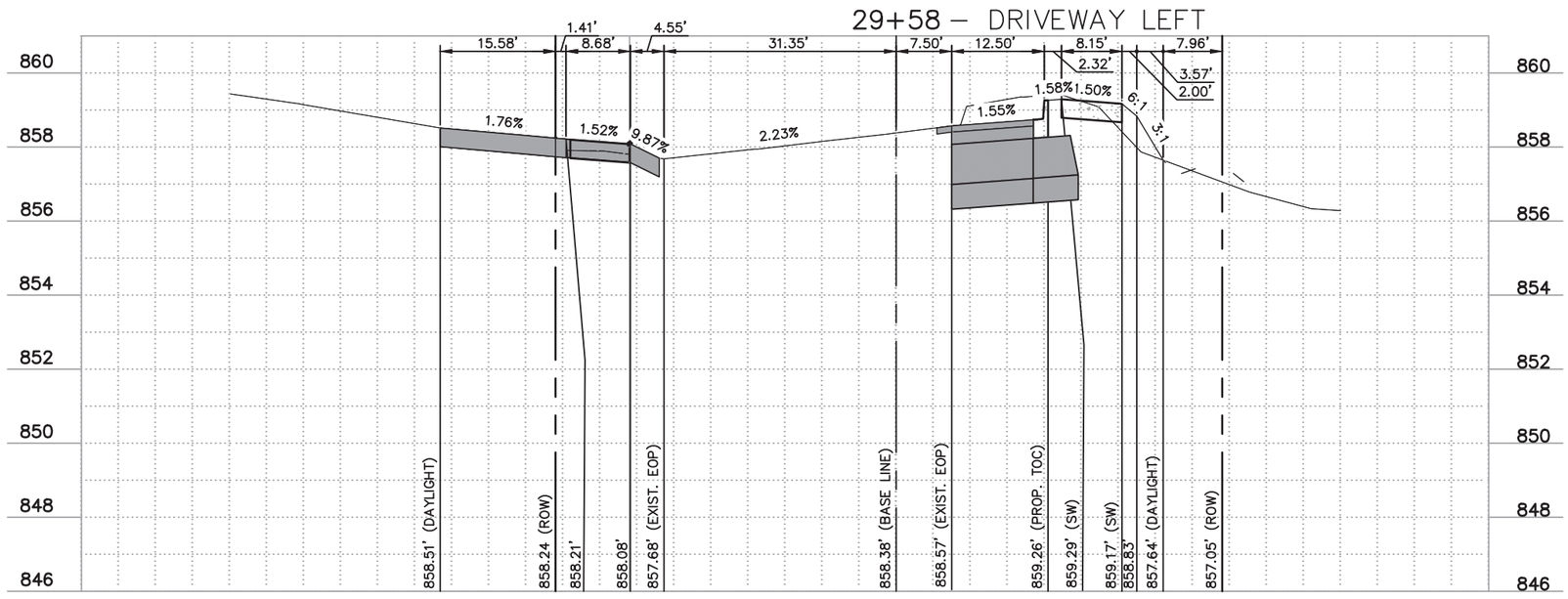

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				253

SP-2016-0186D

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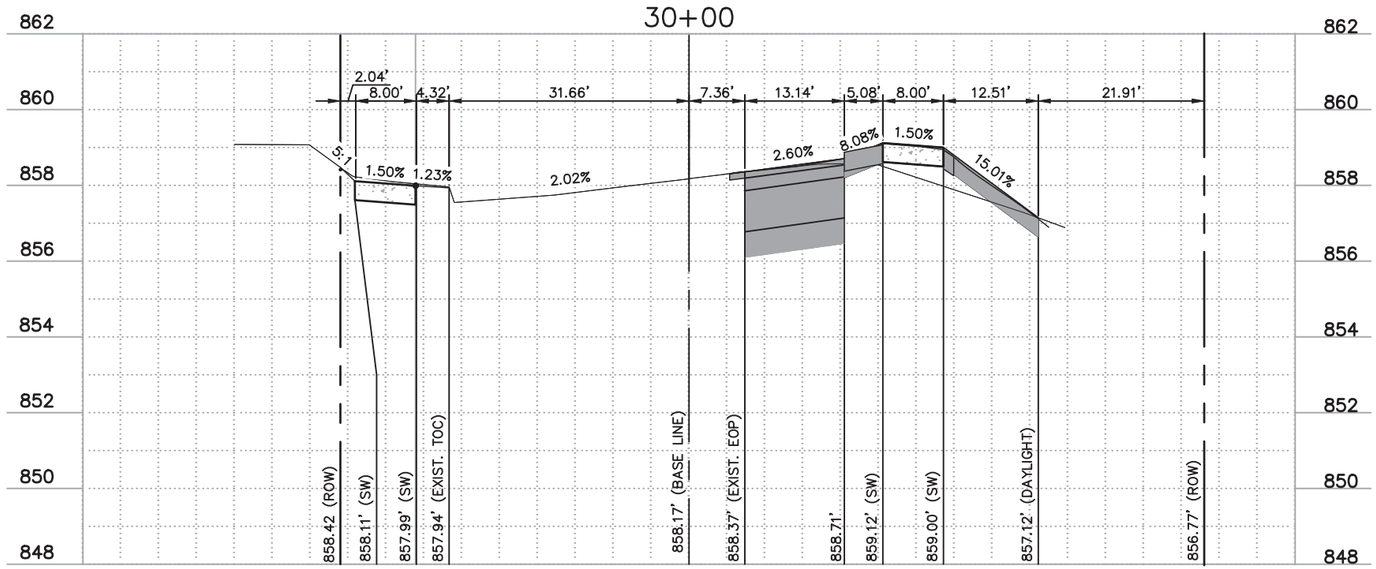

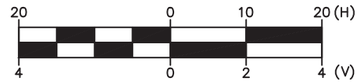

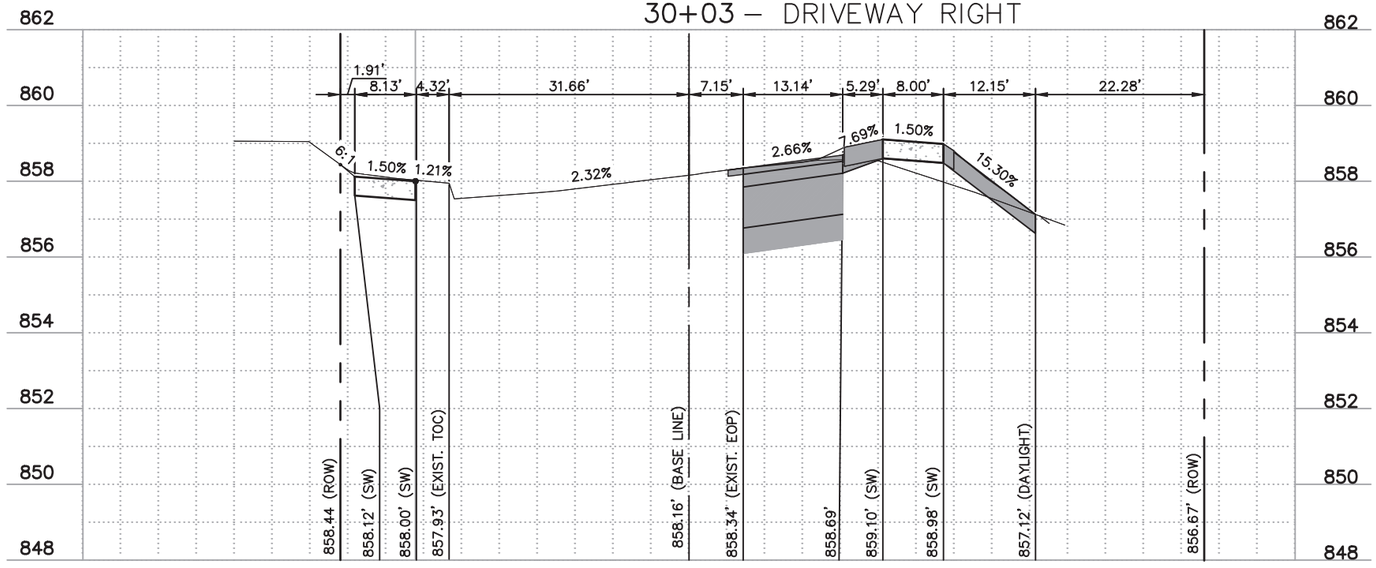

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				254

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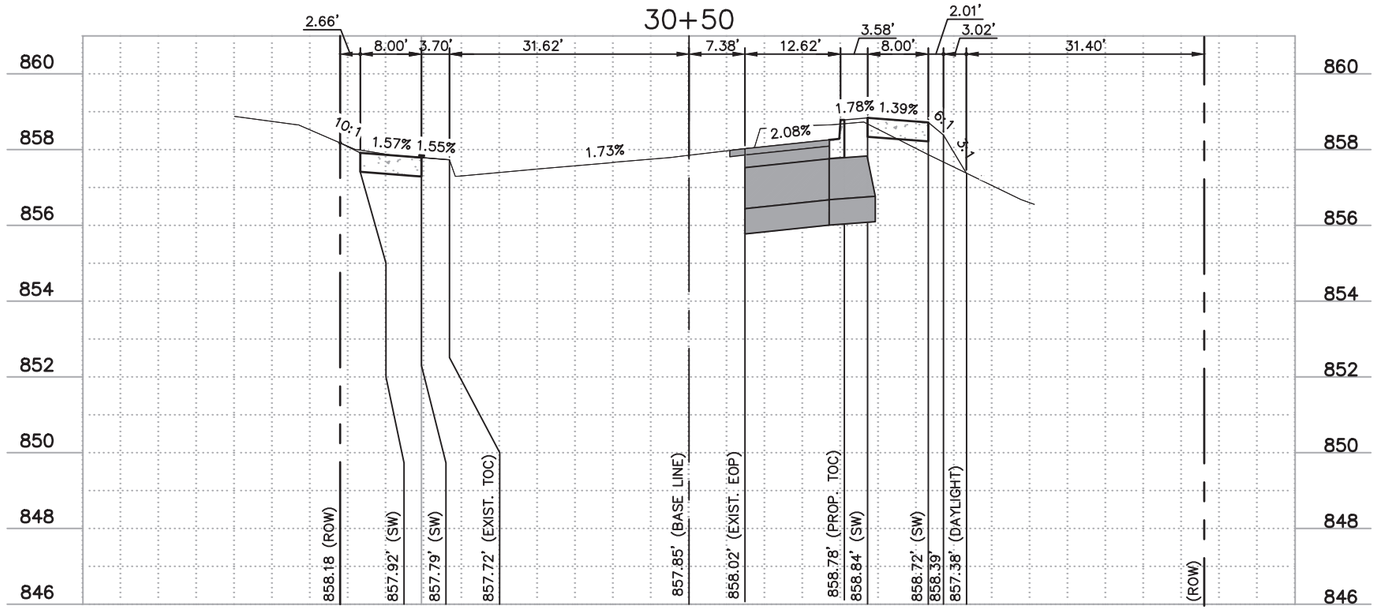

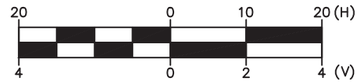

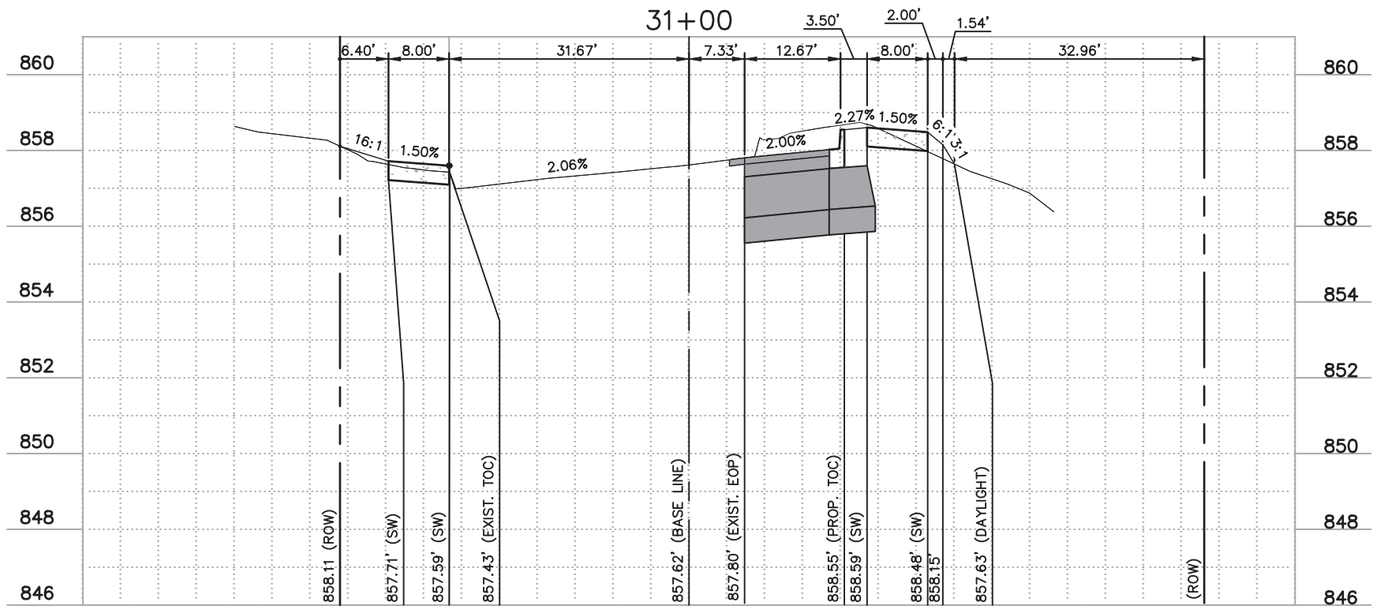

8.4.17
STATE OF TEXAS
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Stephanie D Blew

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				255

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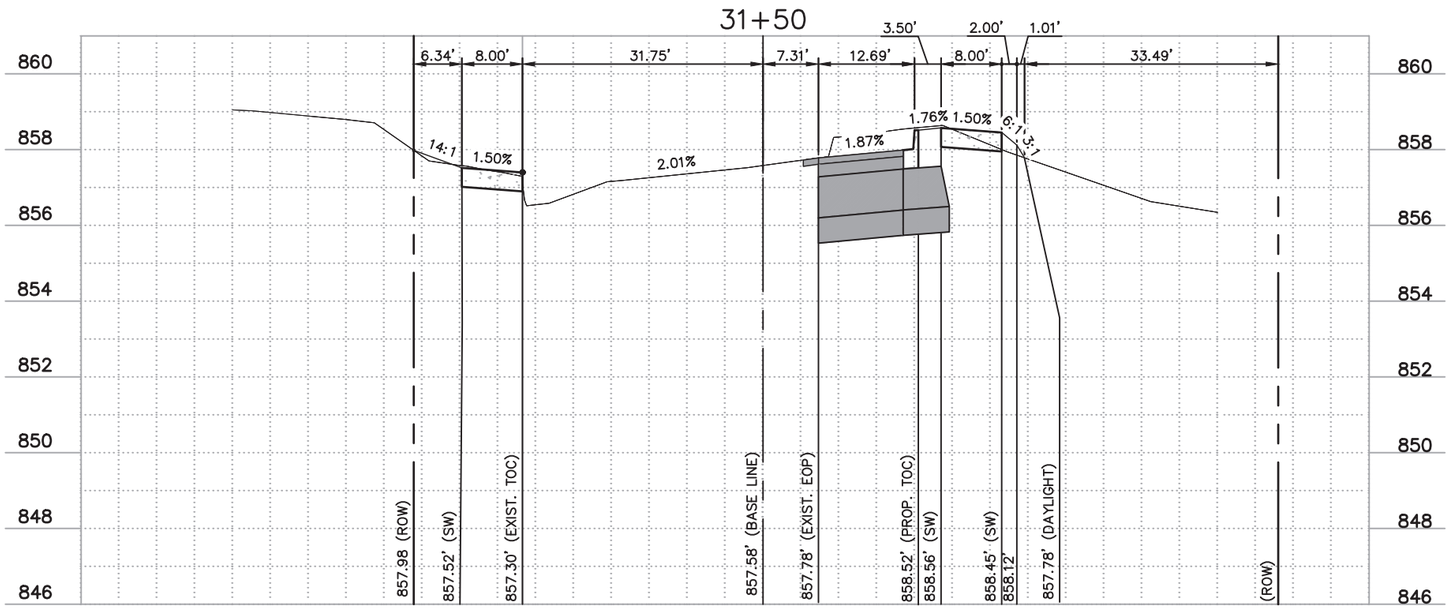

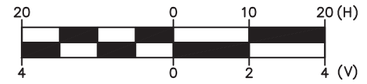

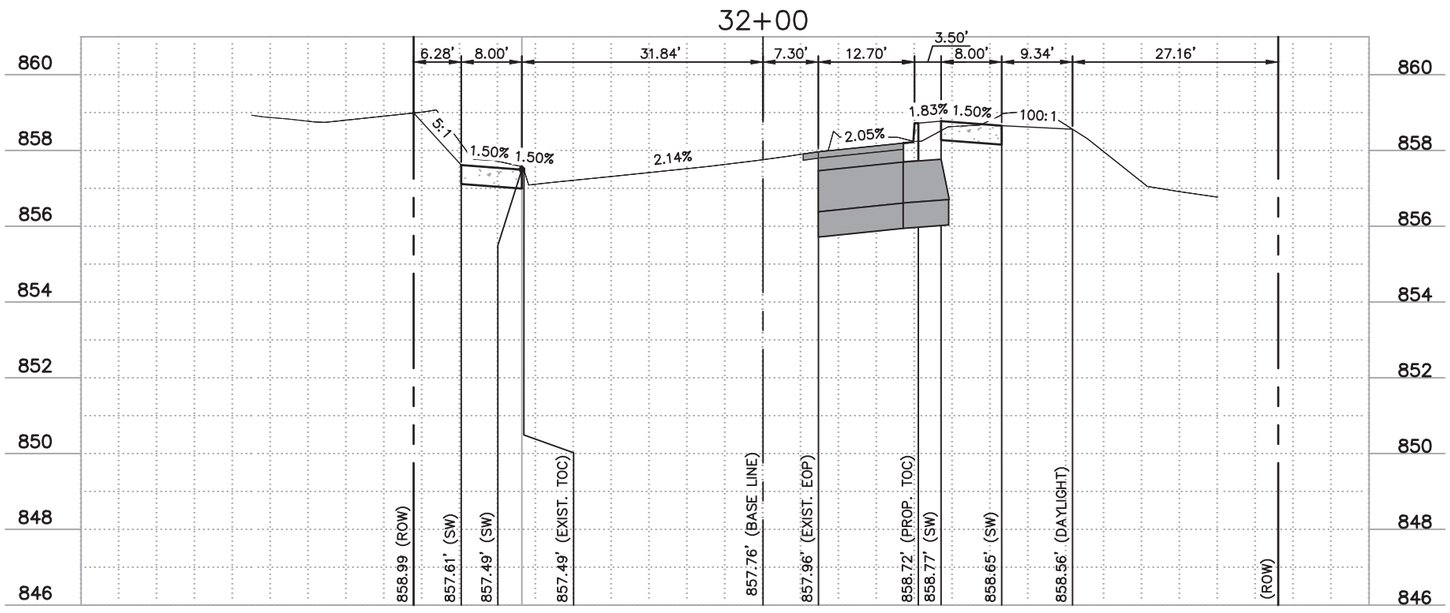

8.4.17
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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				256

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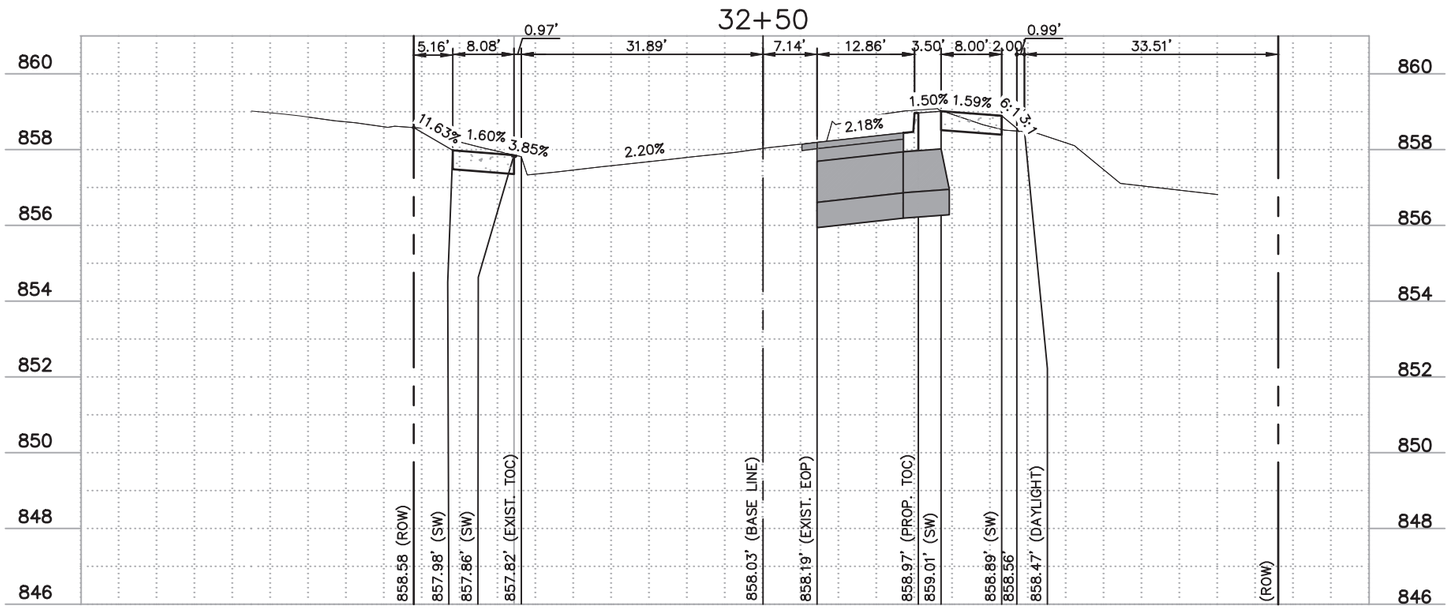

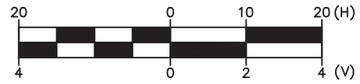

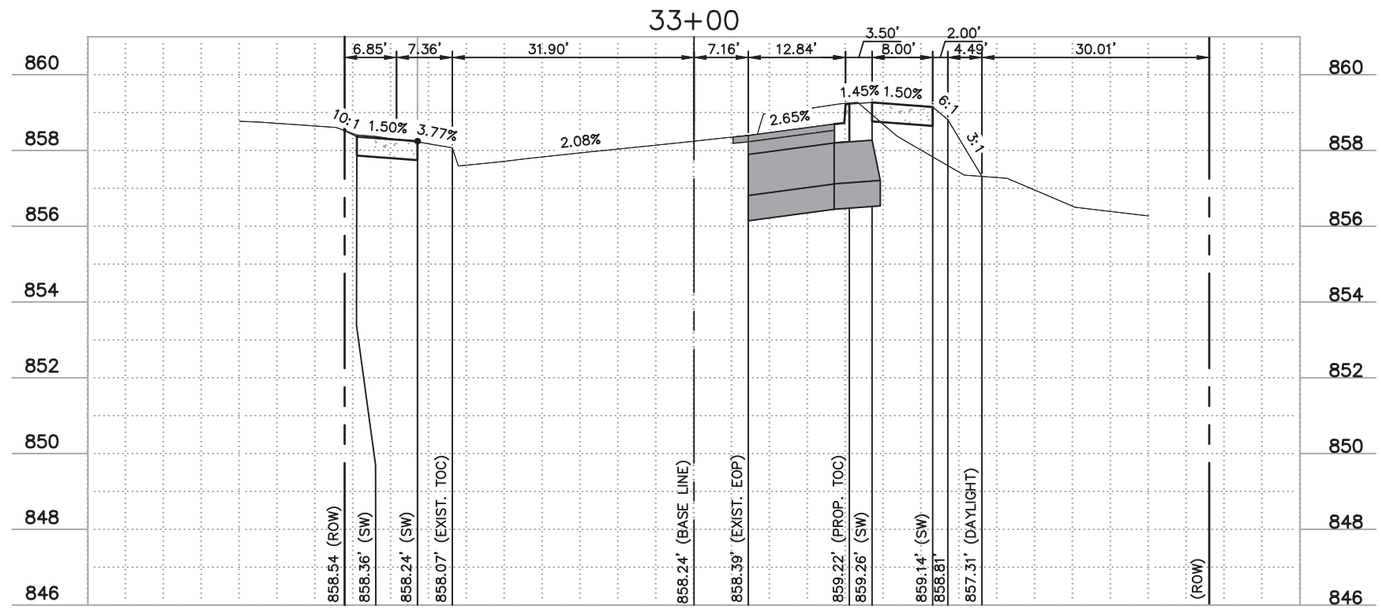

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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				257

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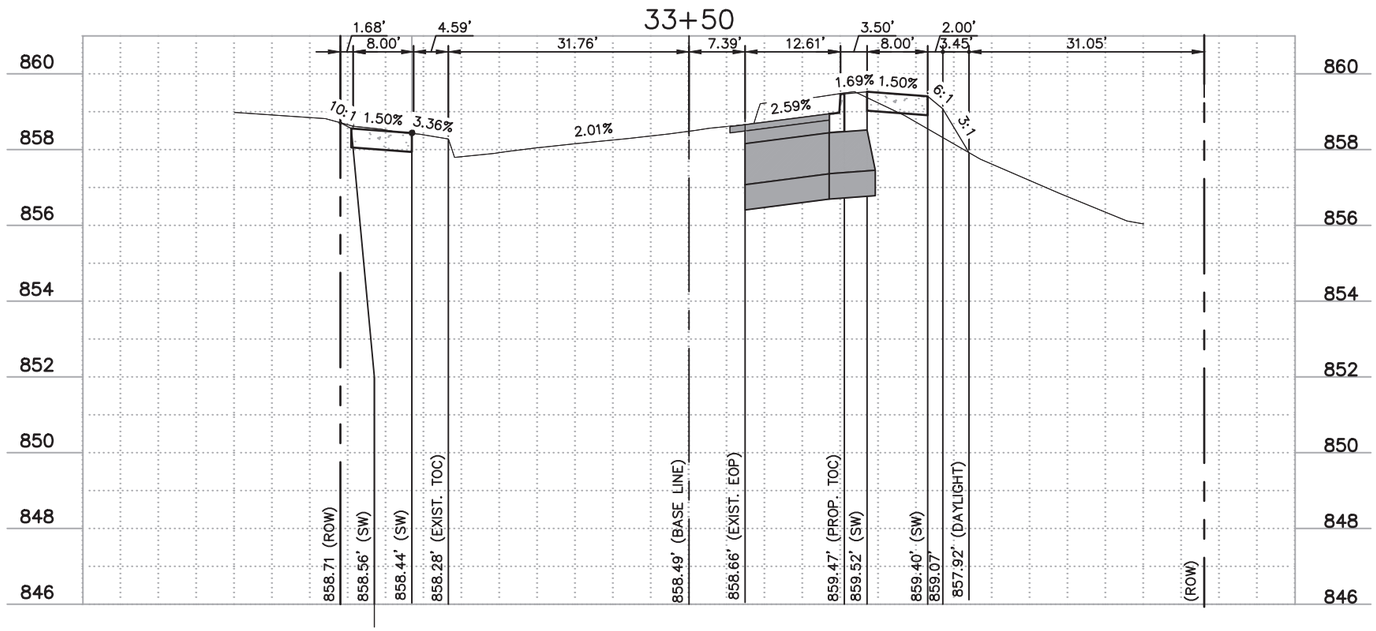

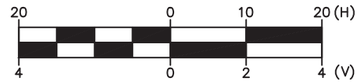

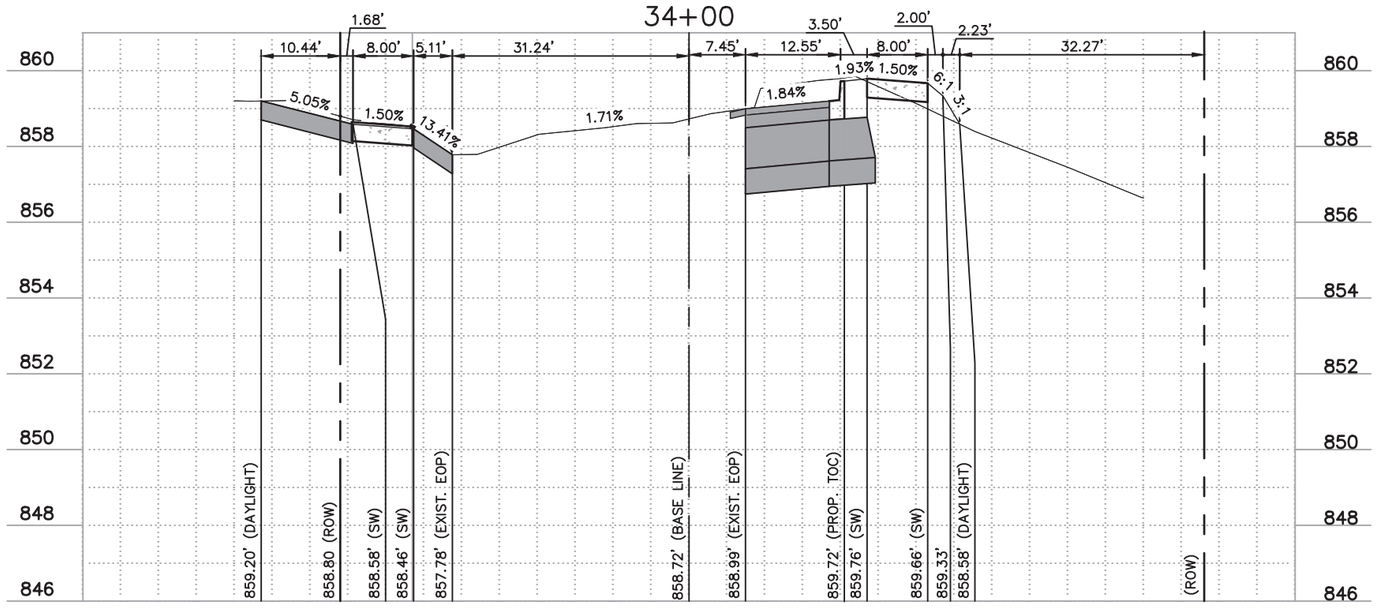

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SHEET 258 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				258

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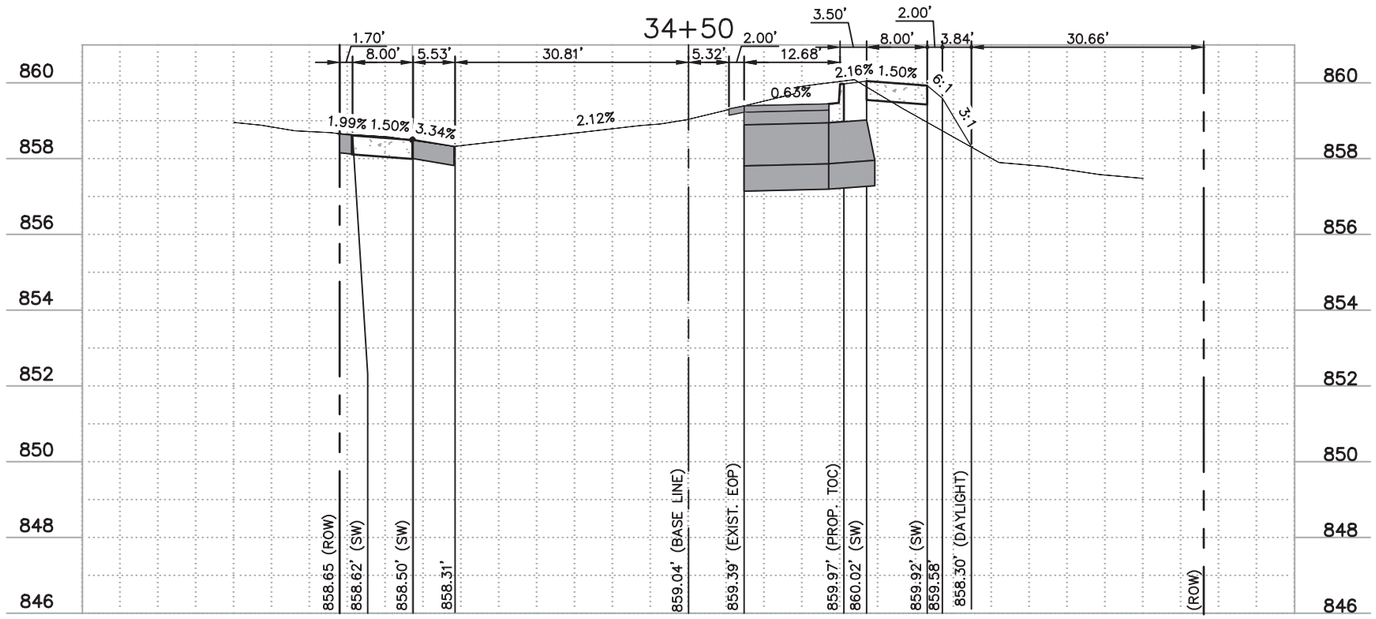

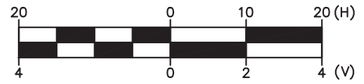

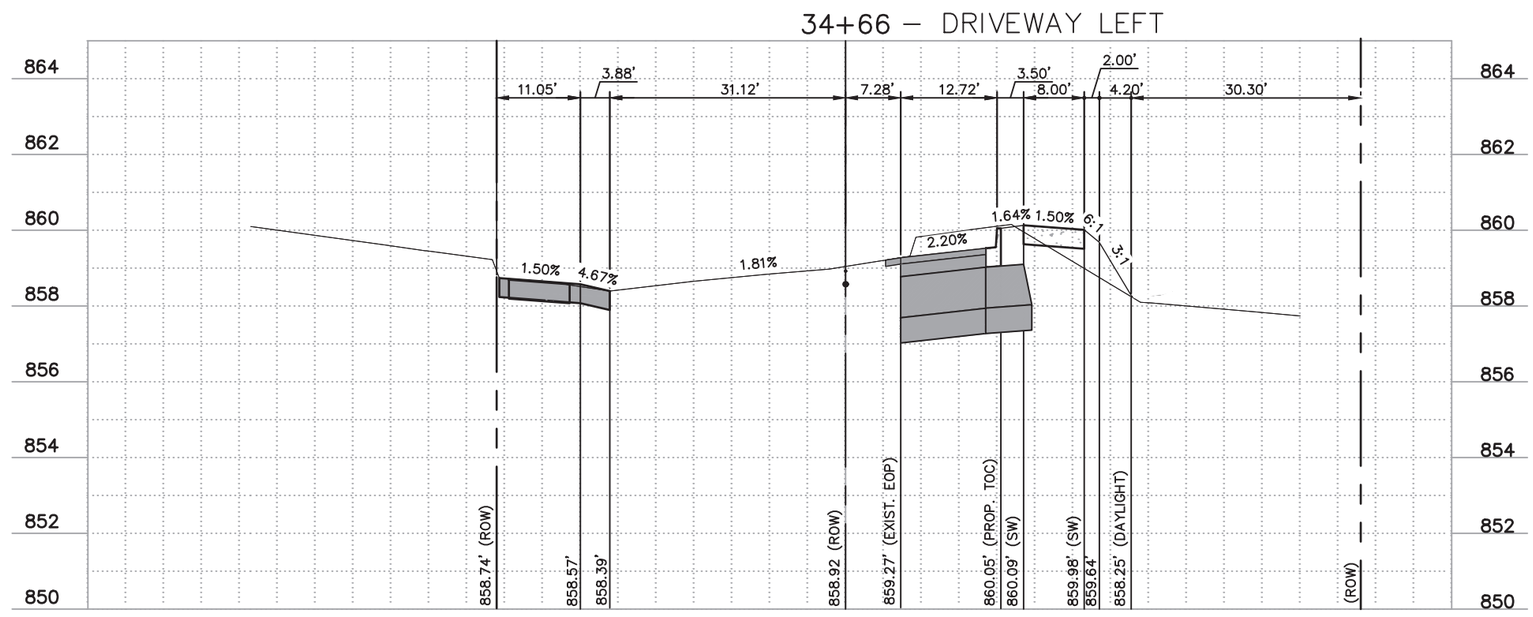

8.4.17
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FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				259

SP-2016-0186D

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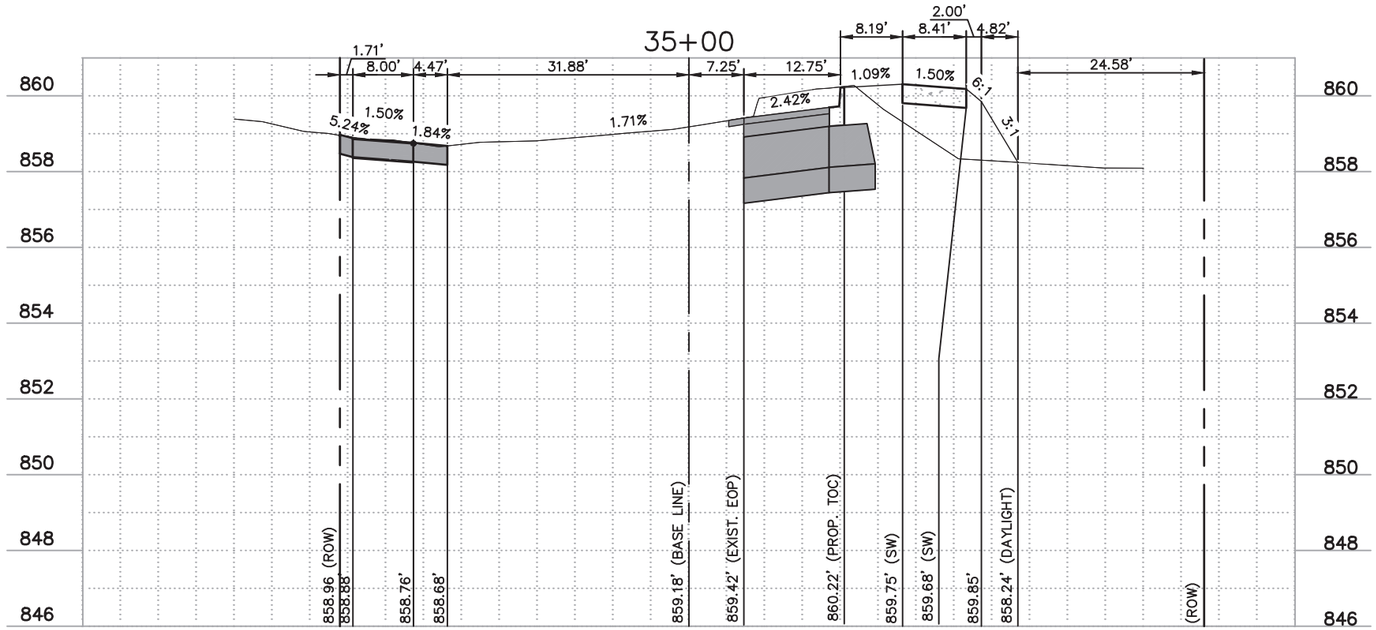

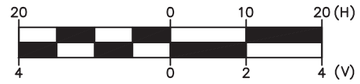

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SHEET 260 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				260

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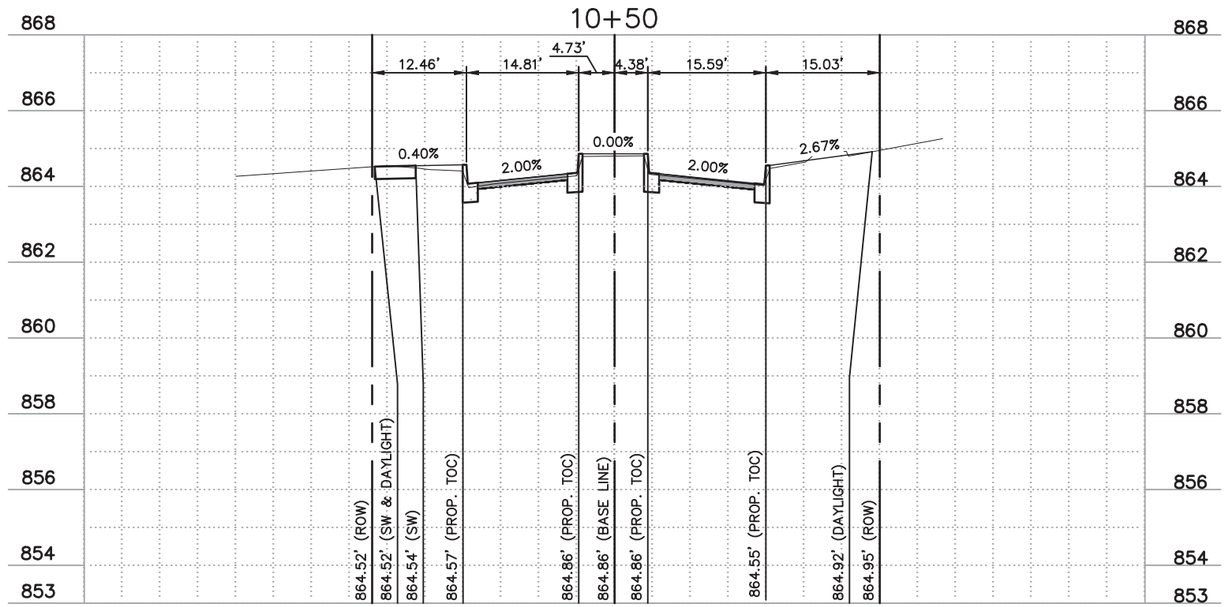

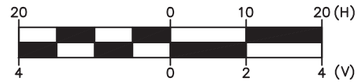

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ALTONA WAY CROSS SECTION
10+50

SHEET 261 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				261

SP-2016-0186D

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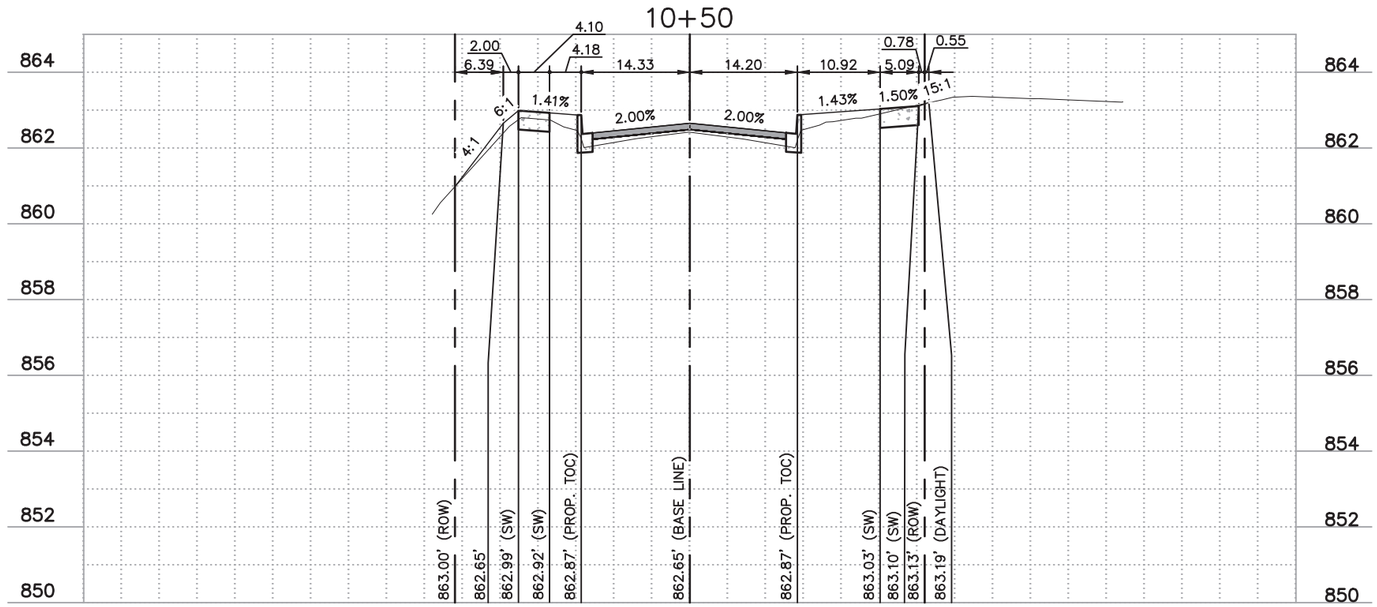

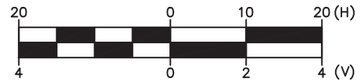

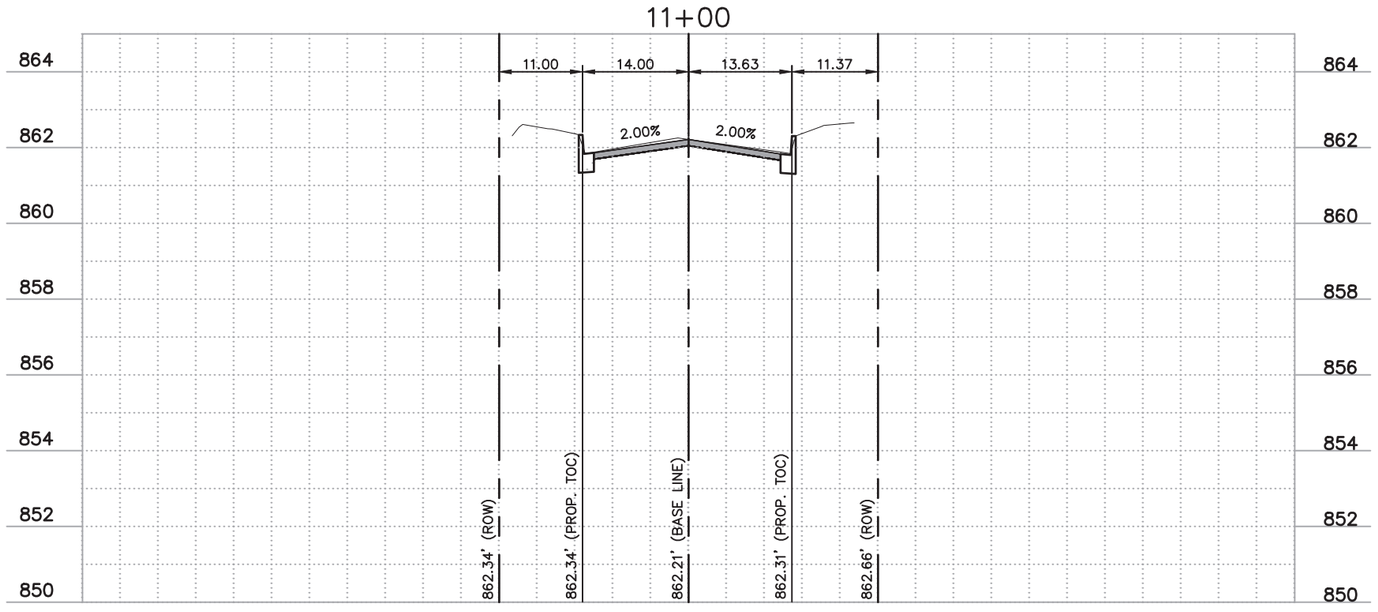

8.4.17
STATE OF TEXAS
STEPHANIE D. BLEW
92682
LICENSED
PROFESSIONAL ENGINEER
Stephanie D Blew

NEENAH AVENUE WIDENING

WILLIAMSON COUNTY
1848

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Austin, Texas 78701
Tel. (512) 328-0011 Fax (512) 328-0325
TBPE # F-8324 TBPLS # F-10194230
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SOLERA DR. CROSS SECTIONS
10+50 – 11+00

SHEET 262 OF 273

FED. RD. DIV. RD.	STATE	PROJECT NO.	HIGHWAY NO.	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	TEXAS	104023–10006	_	14	WILLIAMSON				262

SP-2016-0186D

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AUSTIN WATER UTILITY GENERAL CONSTRUCTION NOTES

UPDATED: October 26, 2016

1. THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIAL AND METHODS USED TO DO THIS WORK.
2. CONTRACTOR MUST OBTAIN A STREET CUT PERMIT FROM WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.
3. AT LEAST 48 HOURS BEFORE BEGINNING ANY WATER AND WASTEWATER CONSTRUCTION IN PUBLIC R.O.W. OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY WATERSHED PROTECTION AND DEVELOPMENT REVIEW INSPECTION OR WATER AND WASTEWATER UTILITY TAPS INSPECTION AT THE NUMBER INDICATED ON THE PLANS BY THE AWU PLAN REVIEWER.
4. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.
5. NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.
6. THE CITY SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.
7. ALL MATERIALS TESTS, INCLUDING SOIL DENSITY TESTS AND DETAILED SOIL ANALYSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 1804S.04.
8. PRESSURE TAPS SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3(24). THE CONTRACTOR SHALL PERFORM EXCAVATION ETC., AND SHALL FURNISH, INSTALL AND AIR TEST THE SLEEVE AND VALVE. WHEN CONTRACTORS MAKE THE TAP A CITY INSPECTOR MUST BE PRESENT AND 2 WORKING DAYS (MIN.) NOTICE MUST BE GIVEN. "SIZE ON SIZE" TAPS WILL NOT BE PERMITTED, UNLESS, IT HAS BEEN DEMONSTRATED THAT A MORE ACCEPTABLE CONNECTION WOULD INVOLVE CONSIDERABLE HARDSHIP TO THE UTILITY SYSTEM. ALL TAPS SHALL BE MADE BY USE OF AN APPROVED FULL CIRCLE GASKETED CAST IRON OR DUCTILE IRON TAPPING SLEEVE. CONCRETE BLOCKING SHALL BE PLACED UNDER ALL TAP SLEEVES PRIOR TO MAKING THE PRESSURE TAP AND THE USE OF PRECAST BLOCKS MAY BE USED TO HOLD THE TAP IN ITS CORRECT POSITION PRIOR TO BLOCKING. THE BLOCKING BEHIND AND UNDER THE TAP SHALL HAVE A MINIMUM OF 24 HOURS CURING TIME BEFORE THE VALVE CAN BE REOPENED FOR SERVICE FROM THAT TAP.
9. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3 (22).
10. ALL BRANCH CONNECTIONS SHALL HAVE THE VALVE BOLTED TO THE MAIN BY METHODS OF FLANGE OR SWIVEL TEES. FOSTER ADAPTORS MAY BE USED IN LIEU OF FLANGE OR SWIVEL TEES WHEN CALLED OUT ON THE PLANS BY THE DESIGN ENGINEER.
11. A). FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 511S.4 B). FIRE HYDRANTS SHALL BE PAINTED FLYNT ALUMINUM OR EQUAL.
12. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). FORCE MAIN PRESSURE TESTING SHALL BE CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE PRESSURES SHOWN ON THE APPROVED PLANS.
13. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.
14. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS PE, THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD OR REPLACED THE FULL LENGTH WITH TYPE K COPPER MATERIAL. ANY TIME PB IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE SERVICE LINE SHALL BE REPLACED FULL LENGTH WITH TYPE K COPPER MATERIAL. NOTE: FULL LENGTH IS FROM CORPORATION STOP TO METER.
15. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY THE AUSTIN WATER UTILITY DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE.
16. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER UTILITY AT 972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS.
17. ALL MANHOLES IN UNPAVED AREAS PROVIDING DIRECT ACCESS TO A WASTEWATER LINE SHALL BE WATERTIGHT AND BEAR THE WORDING AND INSIGNIA FOR THE CITY OF AUSTIN.
18. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES PRIOR TO STARTING ONSITE UTILITY WORK.
19. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN DOES NOT REMOVE THESE RESPONSIBILITIES.
20. REVIEW BY THE AUSTIN WATER UTILITY APPLIES ONLY TO FACILITIES WITHIN PUBLIC STREETS OR PUBLIC UTILITY EASEMENTS. ALL OTHER WATER AND WASTEWATER FACILITIES INSIDE PRIVATE PROPERTY ARE UNDER THE JURISDICTION OF BUILDING INSPECTION.
21. ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 - DRINKING WATER STANDARDS, AND CHAPTER 217 - DESIGN CRITERIA FOR SEWERAGE SYSTEMS, OF TCEQ RULES.
22. CONTRACTOR'S PERSONNEL THAT PERFORM BUTT FUSION AND ELECTROFUSION ON ON OR TO HDPE PIPE AND FITTINGS MUST HAVE CURRENT QUALIFICATION TRAINING CERTIFICATE ISSUED BY MCELROY OR COMPARABLE TRAINING PROGRAM.
23. SHOP DRAWINGS SHALL BE SUBMITTED FOR AWU APPROVAL FOR LARGE DIAMETER PRE-CAST MANHOLES, JUNCTION BOXES, WET WELLS, AND SIMILAR STRUCTURES. THE SHOP DRAWINGS SHALL INCLUDE FLOWLINE ELEVATIONS OF ALL INCOMING AND OUTGOING PIPES, ELEVATION OF TRANSITION FROM LARGE DIAMETER SECTIONS TO 48" ID SECTION, TOP OF MANHOLE ELEVATION, SURROUNDING GROUND ELEVATION, AS WELL AS SPECIAL CONSTRUCTION CONSIDERATIONS THAT ARE SPECIFIED IN THE CONTRACT DRAWINGS.
24. VALVE STEM EXTENSIONS SHALL CONSIST OF A SINGLE PIECE OF IRON ROD OF THE REQUIRED LENGTH WITH A SOCKET ON ONE END AND NUT ON THE OTHER.
25. ASBESTOS CONCRETE PIPE (AC PIPE) HAS BEEN INSTALLED IN THE PAST AS PART OF AUSTIN WATER UTILITY'S WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEMS. AUSTIN WATER UTILITY'S INFRASTRUCTURE INCLUDES AC PIPE THAT IS CURRENTLY IN SERVICE AS WELL AS AC PIPE THAT HAS BEEN ABANDONED AND IS NO LONGER IN SERVICE. RECORD INFORMATION MAY NOT BE COMPLETE FOR THE PROJECT. CONTRACTORS AND SUBCONTRACTORS MUST BE ALERT TO THE POSSIBLE PRESENCE OF AC PIPE WITHIN THE LIMITS OF THE PROJECT AND BE KNOWLEDGEABLE OF HOW TO IDENTIFY IT. DISTURBANCE, REMOVAL OR CUTTING OF ASBESTOS CONTAINING PIPE IS TO BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF TEXAS ADMINISTRATIVE CODE 25, SECTION 15, ARTICLE 4477-3A AND 29 CFR 1926.1101. CONTACT THE CITY OF AUSTIN ASBESTOS MANAGER AT 512-974-7154 THIRTY (30) DAYS PRIOR TO THE PLANNED DISTURBANCE OF THE AC PIPE. ONLY STATE LICENSED PERSONNEL ARE PERMITTED TO DISTURB, REMOVE, TRANSPORT AND DISPOSE OF AC PIPE.

WATER METER REMOVAL AND RELOCATION REQUIREMENTS

1. ALL EXISTING WATER METER, RECOGNIZED TO BE RELOCATED OR ABANDONED AT RESIDENTIAL AND/OR COMMERCIAL DEVLOPMENTS BY THE ENGINEER OF RECORD, SHALL BE REMOVED FROM THE METER BOX(ES) PRIOR TO CONSTRUCTION AND GIVEN IMMEDIATELY TO THE UTILITY INSPECTOR. THE UTILITY INSPECTOR WILL THEN TURN IN THE WATER METER(S) TO AWU CONSUMER SERVICES TAPS OFFICE FOR CREDIT WITHIN FIVE (5) BUSINESS DAYS OF RECEIPT OF THE WATER METER(S). BEFORE ANY LARGE (3" AND ABOVE) METER(S) ARE REVOCED, THE UTILITY INSPECTOR WILL SCHEDULE THE TIME AND PLACE OF THE METER DELIVERY WITH THE AWU TAPS OFFICE AND METER SHOP, AND PROVIDE THE CONTRCTOR WITH THAT INFORMATION. AT THE PRE-CONSTRUCTION MEETING THE CITY INSPECTOR SHALL VERIFY THAT THE METER NUMBER DISPLAYED ON THE METER COVER AT ITS PHYSICAL LOCATION IS THE SAME METER NUMBER LISTED ON THE APPROVED ENGINEERING DRAWINGS. THE CORRECT METER NUMBER(S) AT THE SITE ADDRESS SHALL BE INCLUDED ON THE PLANS AND PHYSICALLY VERIFIED BY THE ENGINEER OF RECORD. THE ENGINEER OF RECORD SHALL CONTACT AN AWU TAPS CUSTOMER SERVICE REPRESENTATIVE TO CONFIRM THE METER INFORMATION ON THE PLAN MATCHES UTILITY RECORDS.
2. IF WATER SERVICE IS REQUIRED DURING CONSTRUCTION, THE CONTRACTOR WILL CALL CITY OF AUSTIN UTILITIES TO ESTABLISH AN ACTIVE UTILITY ACCOUNT. ONCE SERVICE IS AVAILABLE TO THE SITE, AND ALL APPLICABLE TAP FEES HAVE BEEN PAID, A NEW WATER METER SHALL BE ISSUED TO BE INSTALLED IN ORDER TO ENSURE ACCURATE CALIBRATION OF THE WATER METER(S) TO BE USED FOR THE SITE. UNDER NO CIRCUMSTANCES SHALL AN EXISTING WATER METER BE USED DURING CONSTRUCTION OR RELOCATED TO ANOTHER LOCATION AND/OR ADDRESS WITHOUT PRIOR SUBMITTAL OF A WRITTEN REQUEST FOR EXCEPTION AND SUBSEQUENT WRITTEN APPROVAL FROM THE TAPS OFFICE.

SP-2016-0186D

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley
TBPE No. F-2165 | TBPLS No. 10194381
1100 NORTHWEST LOOP 410, SUITE 580
SAN ANTONIO, TEXAS 78752
210.826.4611 | FAX 210.826.4906
WWW.COBBFENDLEY.COM

GENERAL NOTES

NEENAH AVE. WIDENING
AUSTIN, TEXAS

WILLIAMSON COUNTY 1848

PROJ. NO. 1403-088-02
DESIGN: G. LITTLEFIELD
DRAWN: G. LITTLEFIELD
CHECK: J. HASTINGS
APPR: L. PARISHER
DATE: JULY 18, 2017

STATE OF TEXAS
JAMES LANCE PARISHER
106221
LICENSED
PROFESSIONAL ENGINEER
July 18, 2017

THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT

SHEET
C-001
263 of 273

Dwg Info: g:\CFA\2014\0308801_williamson_county_2013_road_bond\MUN\34 neenah\DESIGN\GEN NOTES.dwg - Tab: C-100 - Plotted: 8/8/2017 9:11 AM By: HEATHER BYRNE

9+11.01 NEENAH AVE.
OFFSET LT. -39.56'
PROP. FIRE HYDRANT TO REPLACE FIRE HYDRANT #50433.
CONNECT TO EXIST. 12" PVC WL.
INSTALL:
1 - CUT-IN 12"X6" TEE, M.J.
1 - 6" GATE VALVE
10 LF 6" D.I. PIPE W/ RESTRAINED JOINTS
1 - FIRE HYDRANT ASSEMBLY
REMOVE & REPLACE 10 LF CURB & GUTTER
INTERSECTION #23458

PROP. SIDEWALK

25' DRAINAGE & PUBLIC UTILITY EASEMENT DOC. NO. 1998010160

CAUTION! EXISTING GAS LINE

FH #50433 TO BE REMOVED

12" PVC 97-043

NEENAH AVENUE
(90' R.O.W.)
(CABINET O, SLIDES 281-283)

REMOVE GV #50451 AND INSTALL BLIND FLANGE

PROP. ROADWAY BASELINE

MATCH LINE 13+00

AWU GRID# H41-4
AWU INT. #23458, 23459, 23460

N

0 40' 80'

SCALE: 1" = 40'

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. WHEN THE CONTRACTOR IS USING TRENCHLESS INSTALLATION METHODS, THE CONTRACTOR SHALL LOCATE ALL UTILITIES FOR THE ENTIRE LENGTH OF THE INSTALLATION PRIOR TO ANY ACTIVITIES.
2. CONTRACTOR TO MAINTAIN 48" MINIMUM COVER OVER PROPOSED WATER LINE. CONTRACTOR TO MAINTAIN MINIMUM 18" VERTICAL AND 5' HORIZONTAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES UNLESS OTHERWISE SHOWN ON THE PLANS.
3. ANY DISCREPANCIES FROM WHAT IS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING WORK.
4. ALL WATER LINES SHALL BE DUCTILE IRON CLASS 350 AS DEFINED BY AWWA C151 AND DUCTILE IRON FITTINGS COMPLYING WITH AWWA C153 UNLESS OTHERWISE NOTED ON PLANS.
5. RESTRAIN ALL PIPE JOINTS AND FITTINGS PER SPL WW-27A.
6. IF A FIRE HYDRANT IS MORE THAN 9 YEARS OLD, REMOVE AND SALVAGE. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO THE AUSTIN WATER UTILITY. NOTICE MUST BE GIVEN 48 HOURS PRIOR TO RETURN TO: PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINT. - VALVE AND HYDRANT SERVICES, SUPERVISING AWU PIPELINE TECHNICIAN AT 512-972-1133.
7. CONTRACTOR TO VERIFY SHUT OUT ON FIRE LINES PRIOR TO EXCAVATION TO ENSURE VALVES TO REMAIN IN PLACE.

LEGEND

- WATER VALVE
- FIRE HYDRANT
- WATER METER
- WASTE WATER MANHOLE

3' MIN.

18+07.68 NEENAH AVE.
OFFSET LT. 41.13'
PROP. FIRE HYDRANT TO REPLACE FIRE HYDRANT #234494
INSTALL:
10 LF 6" D.I. PIPE
1 - 6" GATE VALVE
1 - FIRE HYDRANT ASSY.
REMOVE & REPLACE 10 LF CURB & GUTTER
INTERSECTION #23460

PROP. 36" RCP STORM DRAIN (BY OTHERS)

WATER LINE "A" SEE SHT. C-105 INTERSECTION #23459

WATER LINE "B" SEE SHT. C-106 INTERSECTION #23460

PROP. SIDEWALK (BY OTHERS)

MH #112694

25' DRAINAGE & PUBLIC UTILITY EASEMENT DOC. NO. 1998010160

12" PVC 97-043

FIRE HYDRANT TO BE REPLACED

GV #50416

GV #653890

GV #215971

FH #50424

GV #50437

GV #50418

PROP. 3'X5' BOX CULVERT (BY OTHERS)

NEENAH AVENUE
(90' R.O.W.)
(CABINET O, SLIDES 281-283)

PROP. ROADWAY BASELINE

ALTONA WAY

8" PVC 97-0743

MATCH LINE 13+00

MATCH LINE 18+50

SP-2016-0186D

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE
			Bid 11/10-194

CobbFendley
TBPE NO. 274 / TBPLS NO. 10193891
1100 NORTHWEST LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78213
210.824.4011 | FAX 210.828.4506
WWW.COBBFENDLEY.COM

WATER LINE LAYOUT & RELOCATION SHEET I

NEENAH AVE. WIDENING
AUSTIN, TEXAS

WILLIAMSON COUNTY 1848

PROJ. NO. 1403-088-02
DESIGN: G. LITTLEFIELD
DRAWN: G. LITTLEFIELD
CHECK: J. HASTINGS
APPR: L. PARISHER
DATE: JULY 18, 2017

STATE OF TEXAS
JAMES LANCE PARISHER
106221
LICENSED PROFESSIONAL ENGINEER
July 18, 2017

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C-101
264 of 273

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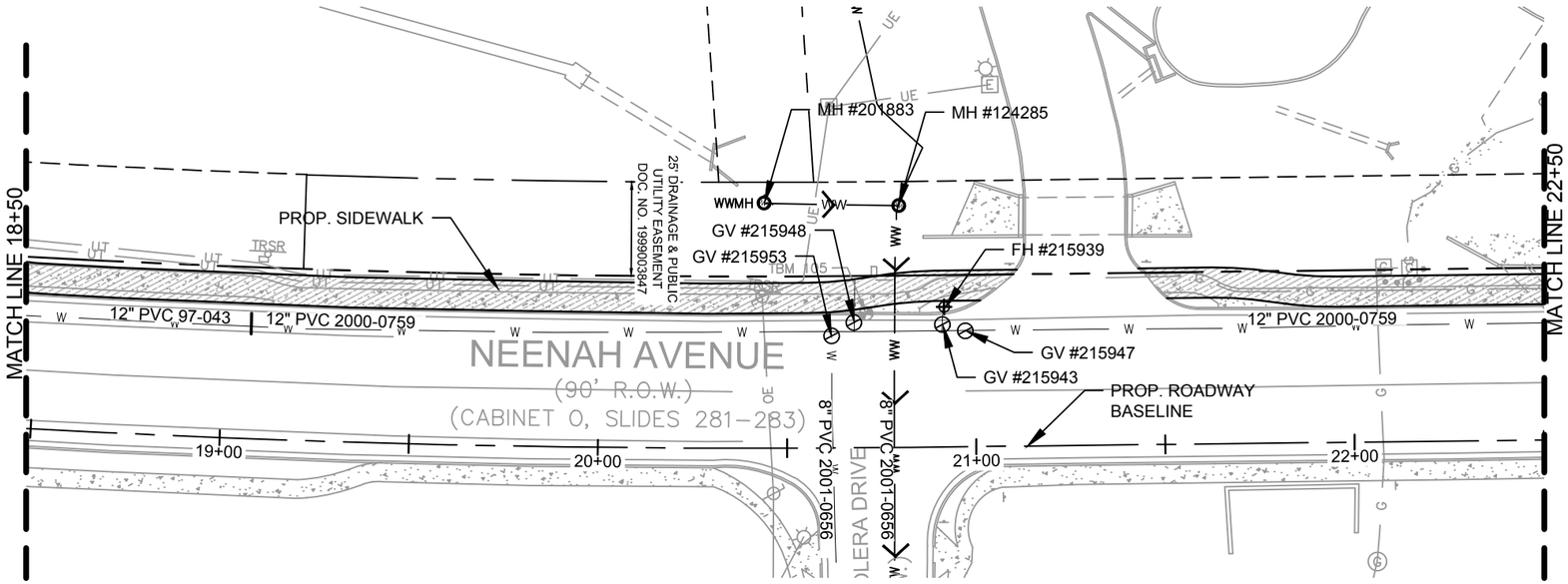

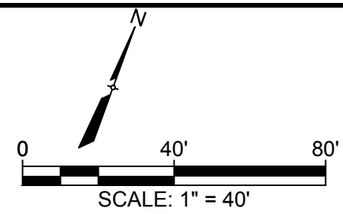

AWU GRID# H41-4
AWU GRID# H41-3
AWU INT. #25658, 25659, 25660

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. WHEN THE CONTRACTOR IS USING TRENCHLESS INSTALLATION METHODS, THE CONTRACTOR SHALL LOCATE ALL UTILITIES FOR THE ENTIRE LENGTH OF THE INSTALLATION PRIOR TO ANY ACTIVITIES.
2. CONTRACTOR TO MAINTAIN 48" MINIMUM COVER OVER PROPOSED WATER LINE. CONTRACTOR TO MAINTAIN MINIMUM 18" VERTICAL AND 5' HORIZONTAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES UNLESS OTHERWISE SHOWN ON THE PLANS.
3. ANY DISCREPANCIES FROM WHAT IS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING WORK.
4. ALL WATER LINES SHALL BE DUCTILE IRON CLASS 350 AS DEFINED BY AWWA C151 AND DUCTILE IRON FITTINGS COMPLYING WITH AWWA C153 UNLESS OTHERWISE NOTED ON PLANS.
5. RESTRAIN ALL PIPE JOINTS AND FITTINGS PER SPL WW-27A.
6. IF A FIRE HYDRANT IS MORE THAN 9 YEARS OLD, REMOVE AND SALVAGE. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO THE AUSTIN WATER UTILITY. NOTICE MUST BE GIVEN 48 HOURS PRIOR TO RETURN TO: PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINT. - VALVE AND HYDRANT SERVICES, SUPERVISING AWU PIPELINE TECHNICIAN AT 512-972-1133.
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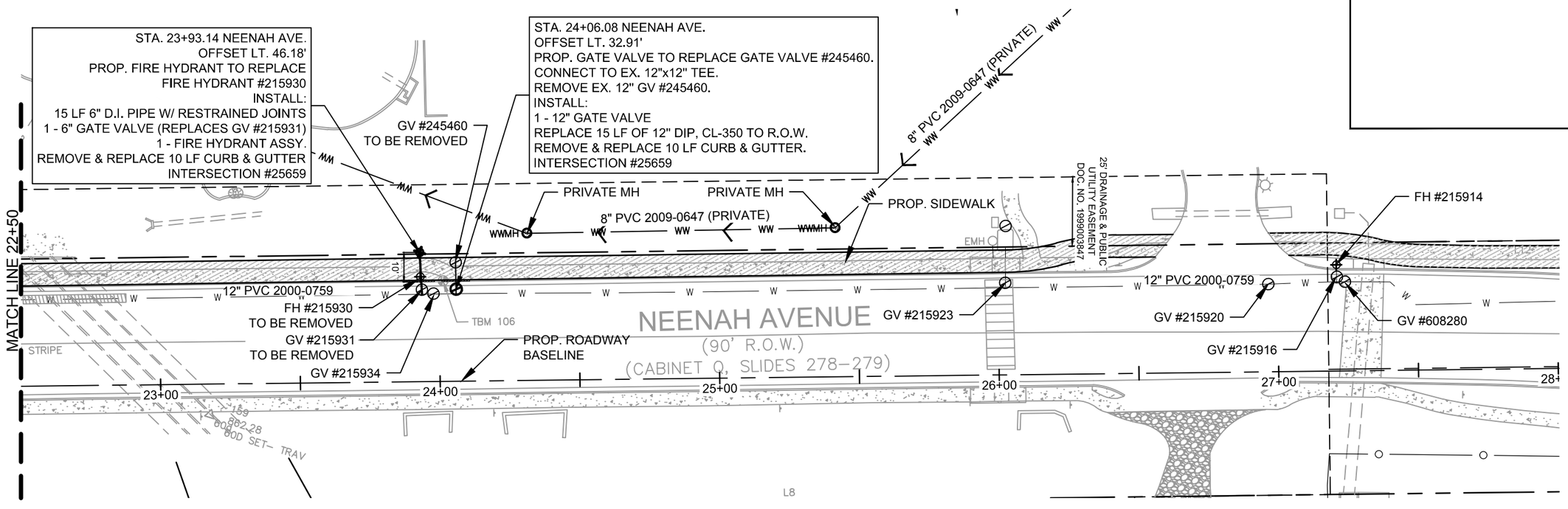
LEGEND

- WATER VALVE
- FIRE HYDRANT
- WATER METER
- WASTE WATER MANHOLE



REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE
			Bid 11-10-194

CobbFendley
TBPE NO. 274 / TBPLS NO. 10193891
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SAN ANTONIO, TEXAS 78213
210.824.4011 | FAX 210.824.4026
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WATER LINE LAYOUT & RELOCATION SHEET II

NEENAH AVE. WIDENING
AUSTIN, TEXAS

WILLIAMSON COUNTY 1848

PROJ. NO. 1403-088-02
DESIGN: G. LITTLEFIELD
DRAWN: G. LITTLEFIELD
CHECK: J. HASTINGS
APPR: L. PARISHER
DATE: SEPTEMBER 14, 2017

STATE OF TEXAS
JAMES LANCE PARISHER
106221
LICENSED
PROFESSIONAL ENGINEER
9/14/17

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SHEET
C-102
265 of 273

SP-2016-0186D

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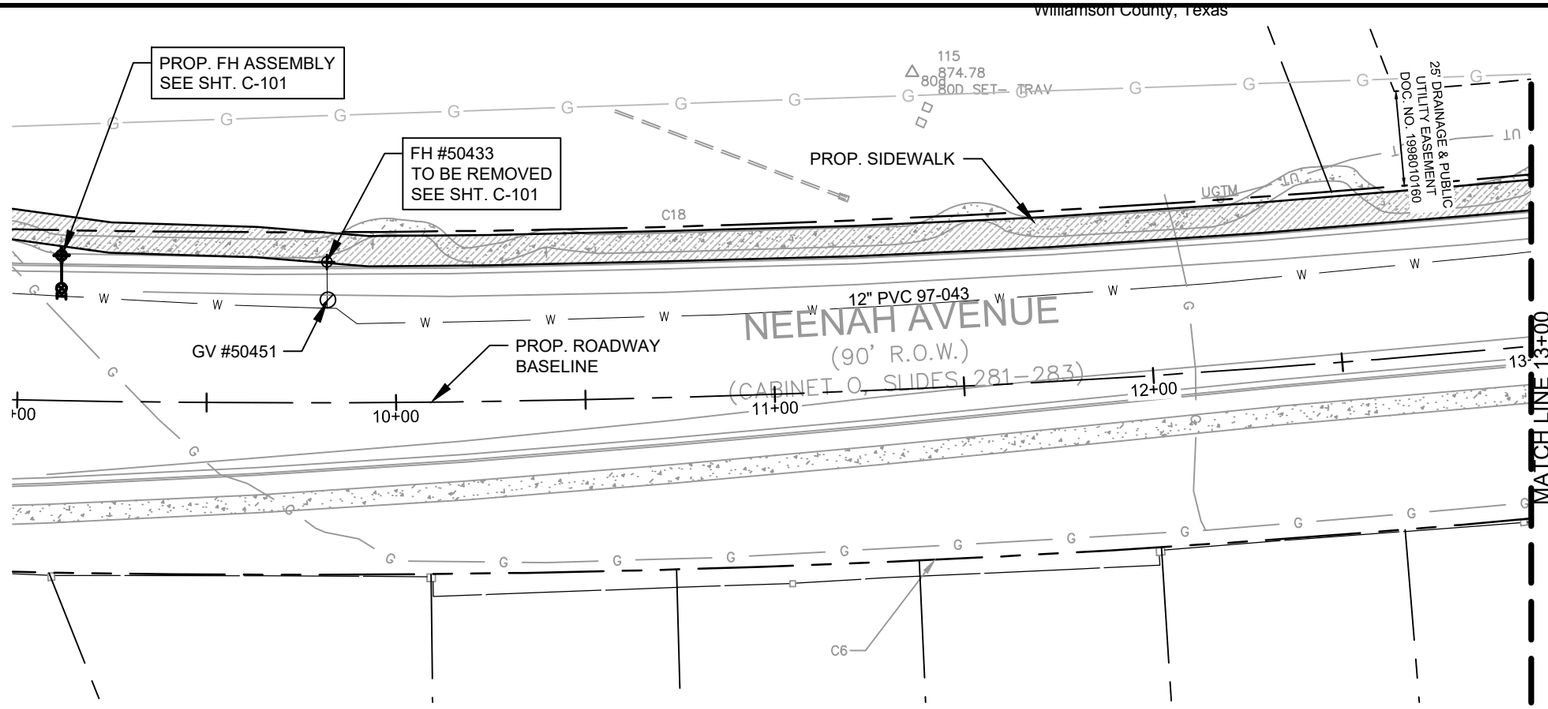
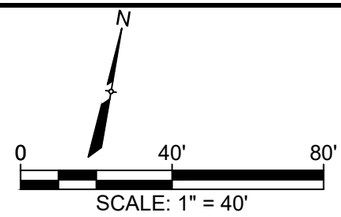


AWU GRID# H41-4
AWU INT. #23458, 23459, 23460



GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. WHEN THE CONTRACTOR IS USING TRENCHLESS INSTALLATION METHODS, THE CONTRACTOR SHALL LOCATE ALL UTILITIES FOR THE ENTIRE LENGTH OF THE INSTALLATION PRIOR TO ANY ACTIVITIES.
2. CONTRACTOR TO MAINTAIN 48" MINIMUM COVER OVER PROPOSED WATER LINE. CONTRACTOR TO MAINTAIN MINIMUM 18" VERTICAL AND 5' HORIZONTAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES UNLESS OTHERWISE SHOWN ON THE PLANS.
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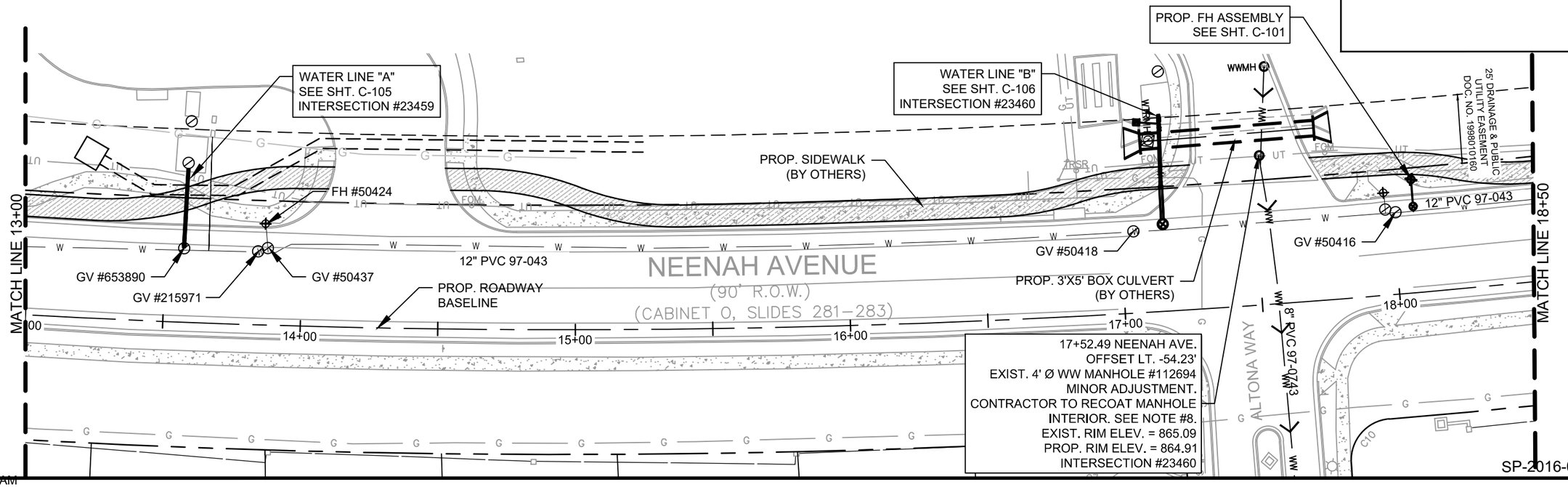
5. RESTRAIN ALL PIPE JOINTS AND FITTINGS PER SPL WW-27A.
6. IF A FIRE HYDRANT IS MORE THAN 9 YEARS OLD, REMOVE AND SALVAGE. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO THE AUSTIN WATER UTILITY. NOTICE MUST BE GIVEN 48 HOURS PRIOR TO RETURN TO: PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINT. - VALVE AND HYDRANT SERVICES, SUPERVISING AWU PIPELINE TECHNICIAN AT 512-972-1133.
7. CONTRACTOR TO VERIFY SHUT OUT ON FIRE LINES PRIOR TO EXCAVATION TO ENSURE VALVES TO REMAIN IN PLACE.
8. PER RECORD DRAWINGS C-97-743, EXISTING INTERIOR MANHOLE COATING IS RAVEN COATING. CONTRACTOR TO VERIFY THE EXISTING COATING TYPE AND MATCH IT FOR ADJUSTMENTS. PAYMENT IS SUBSIDIARY TO COST OF MANHOLE ADJUSTMENT.

NOTE: COBBFENDLEY CONDUCTED MANHOLE INSPECTIONS ON 03/24/2016. PER AWU'S MANHOLE INSPECTION REPORT, ALL MANHOLES ARE IN WORKING CONDITION AND WILL NOT REQUIRE REPAIRS OR REPLACEMENTS. MANHOLE INSPECTION REPORTS AND FIELD PHOTOS HAVE BEEN PROVIDED IN ADDITION TO THESE PLANS.

LEGEND

- WATER VALVE
- FIRE HYDRANT
- WATER METER
- WASTE WATER MANHOLE



17+52.49 NEENAH AVE.
OFFSET LT. -54.23'
EXIST. 4' Ø WW MANHOLE #112694
MINOR ADJUSTMENT.
CONTRACTOR TO RECOAT MANHOLE INTERIOR. SEE NOTE #8.
EXIST. RIM ELEV. = 865.09
PROP. RIM ELEV. = 864.91
INTERSECTION #23460

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley
TBPE NO. 274 / TBPLS NO. 10193891
1100 NORTHWEST LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78213
210.824.4011 | FAX 210.824.4026
WWW.COBBFENDLEY.COM

WASTEWATER LINE LAYOUT & RELOCATION SHEET I

NEENAH AVE. WIDENING
AUSTIN, TEXAS

WILLIAMSON COUNTY 1848

PROJ. NO. 1403-088-02
DESIGN: G. LITTLEFIELD
DRAWN: G. LITTLEFIELD
CHECK: J. HASTINGS
APPR: L. PARISHER
DATE: JULY 18, 2017

STATE OF TEXAS
JAMES LANCE PARISHER
106221
LICENSED
PROFESSIONAL ENGINEER
July 18, 2017

THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT.

SHEET
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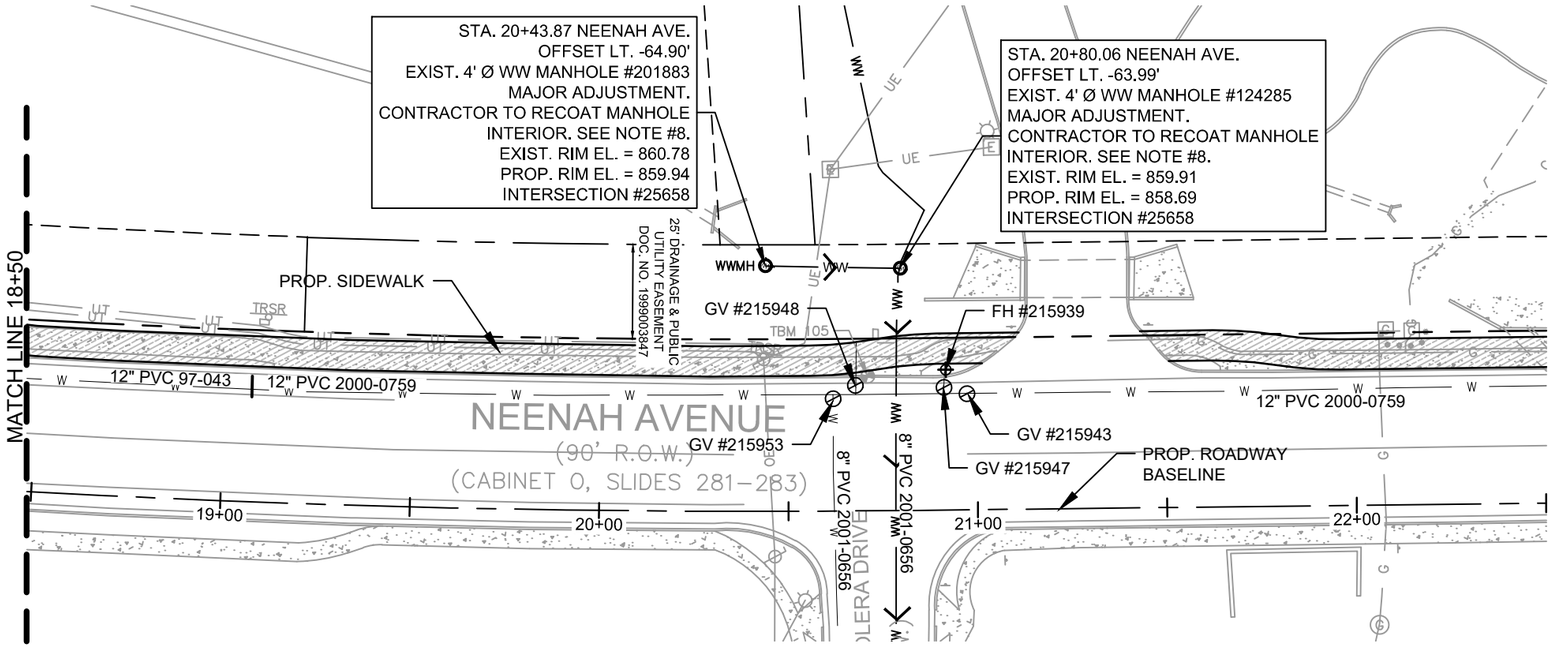
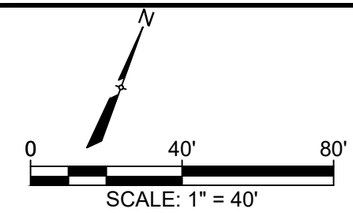
SP-2016-0186D





AWU GRID# H41-4
AWU GRID# H41-3
AWU INT. #25658

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. WHEN THE CONTRACTOR IS USING TRENCHLESS INSTALLATION METHODS, THE CONTRACTOR SHALL LOCATE ALL UTILITIES FOR THE ENTIRE LENGTH OF THE INSTALLATION PRIOR TO ANY ACTIVITIES.
2. CONTRACTOR TO MAINTAIN 48" MINIMUM COVER OVER PROPOSED WATER LINE. CONTRACTOR TO MAINTAIN MINIMUM 18" VERTICAL AND 5' HORIZONTAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES UNLESS OTHERWISE SHOWN ON THE PLANS.
3. ANY DISCREPANCIES FROM WHAT IS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING WORK.
4. ALL WATER LINES SHALL BE DUCTILE IRON CLASS 350 AS DEFINED BY AWWA C151 AND DUCTILE IRON FITTINGS COMPLYING WITH AWWA C153 UNLESS OTHERWISE NOTED ON PLANS.
5. RESTRAIN ALL PIPE JOINTS AND FITTINGS PER SPL WW-27A.
6. IF A FIRE HYDRANT IS MORE THAN 9 YEARS OLD, REMOVE AND SALVAGE. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO THE AUSTIN WATER UTILITY. NOTICE MUST BE GIVEN 48 HOURS PRIOR TO RETURN TO: PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINT. - VALVE AND HYDRANT SERVICES, SUPERVISING AWU PIPELINE TECHNICIAN AT 512-972-1133.
7. CONTRACTOR TO VERIFY SHUT OUT ON FIRE LINES PRIOR TO EXCAVATION TO ENSURE VALVES TO REMAIN IN PLACE.
8. PER RECORD DRAWINGS C-97-743, EXISTING INTERIOR MANHOLE COATING IS RAVEN COATING. CONTRACTOR TO VERIFY THE EXISTING COATING TYPE AND MATCH IT FOR ADJUSTMENTS. PAYMENT IS SUBSIDIARY TO COST OF MANHOLE ADJUSTMENT.

LEGEND

- WATER VALVE
- FIRE HYDRANT
- WATER METER
- WASTE WATER MANHOLE

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley
TBPE NO. 274 / TBPLS NO. 10193891
1100 NORTHWEST LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78213
210.824.4011 | FAX 210.824.8086
WWW.COBBFENDLEY.COM

WASTEWATER LINE LAYOUT & RELOCATION SHEET II

NEENAH AVE. WIDENING
AUSTIN, TEXAS

WILLIAMSON COUNTY 1848

PROJ. NO. 1403-088-02
DESIGN: G. LITTLEFIELD
DRAWN: G. LITTLEFIELD
CHECK: J. HASTINGS
APPR: L. PARISHER
DATE: JULY 18, 2017

STATE OF TEXAS
JAMES LANCE PARISHER
106221
LICENSED
PROFESSIONAL ENGINEER
July 18, 2017

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SHEET
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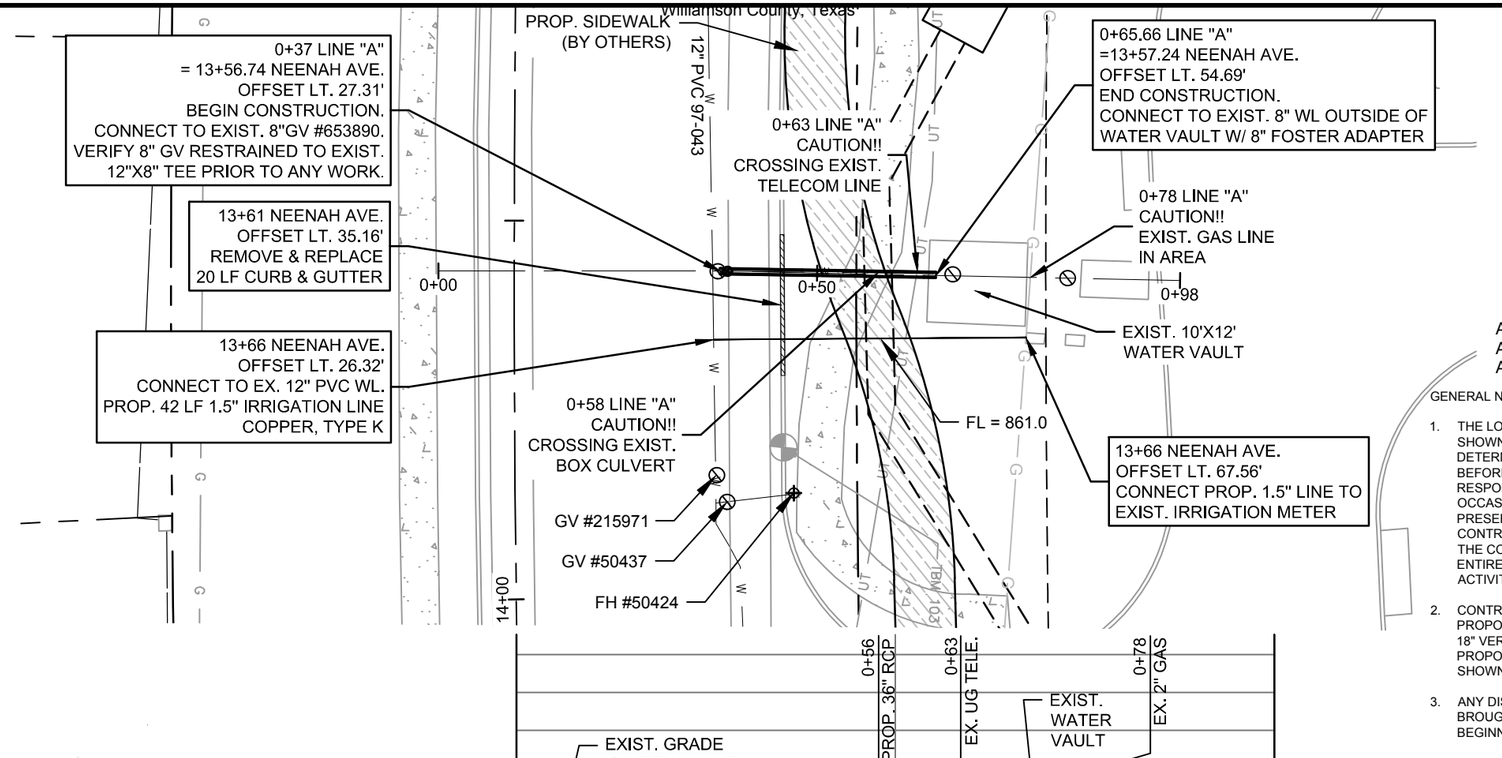
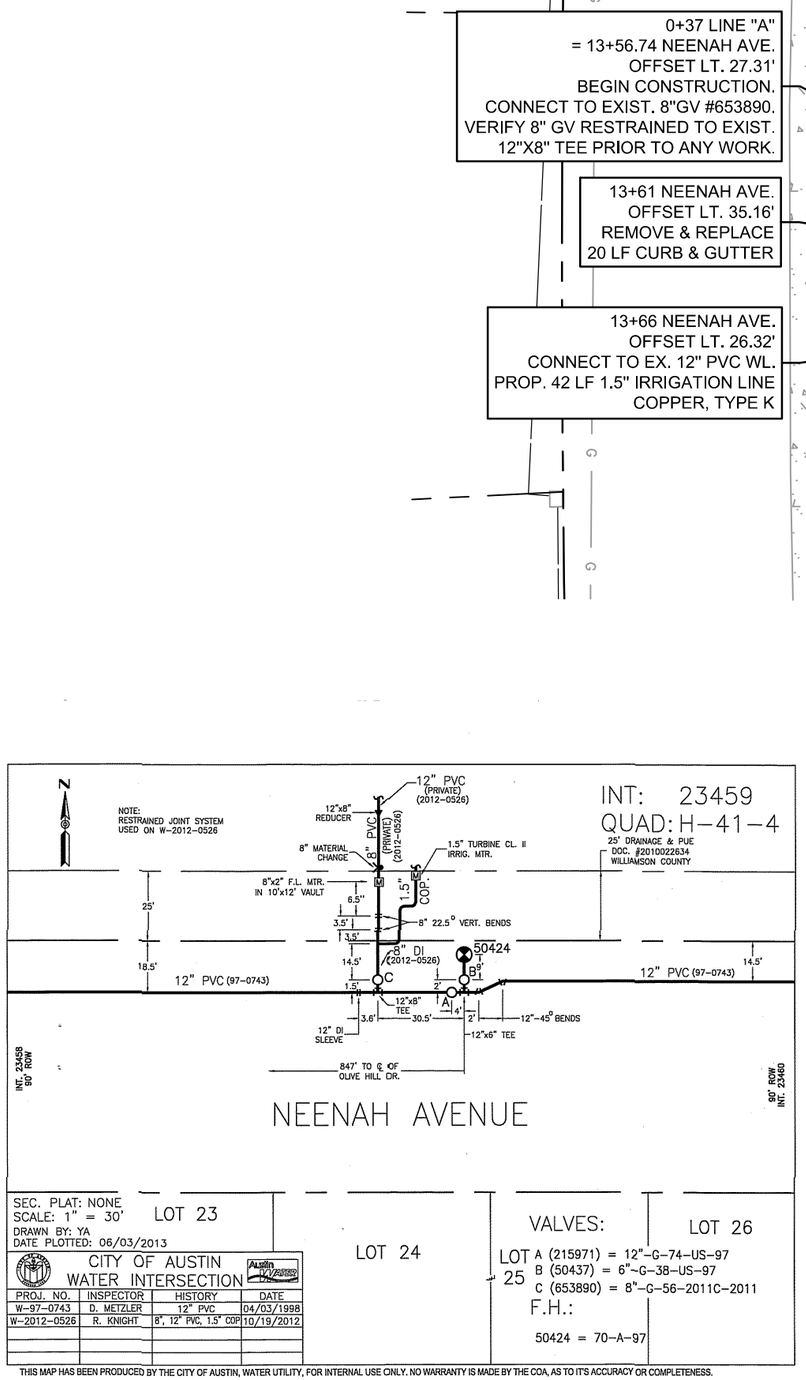
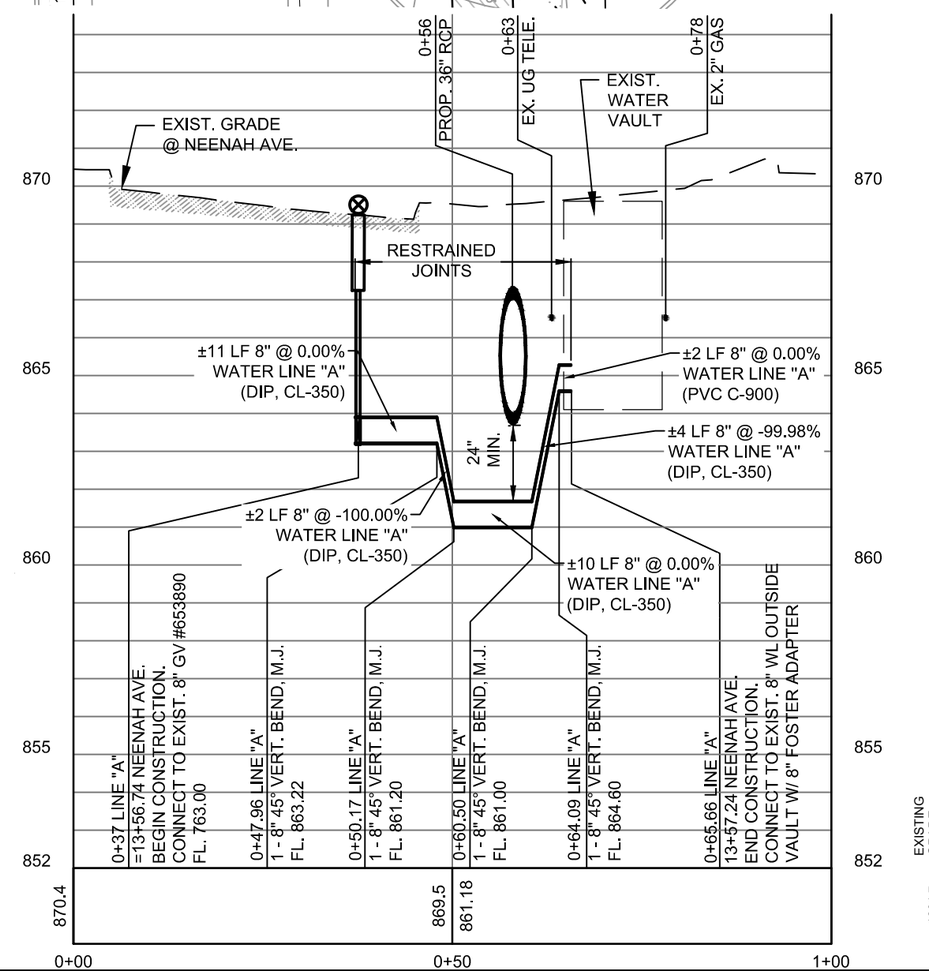
SP-2016-0186D

Dwg Info: g:\CFA\2014\0308801_williamson_county_2013_road_bond\MUN\34 neenah\DESIGN\CFA-NEENAH.dwg - Tab: C-104 - Plotted: 8/8/2017 9:12 AM By: HEATHER BYRNE





AWU INT. #23459



AWU GRID #H41-4
AWU INT. #23459
AWU PLAN #2012-0526

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. WHEN THE CONTRACTOR IS USING TRENCHLESS INSTALLATION METHODS, THE CONTRACTOR SHALL LOCATE ALL UTILITIES FOR THE ENTIRE LENGTH OF THE INSTALLATION PRIOR TO ANY ACTIVITIES.
2. CONTRACTOR TO MAINTAIN 48" MINIMUM COVER OVER PROPOSED WATER LINE. CONTRACTOR TO MAINTAIN MINIMUM 18" VERTICAL AND 5' HORIZONTAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES UNLESS OTHERWISE SHOWN ON THE PLANS.
3. ANY DISCREPANCIES FROM WHAT IS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING WORK.
4. ALL WATER LINES SHALL BE DUCTILE IRON CLASS 350 AS DEFINED BY AWWA C151 AND DUCTILE IRON FITTINGS COMPLYING WITH AWWA C153 UNLESS OTHERWISE NOTED ON PLANS.
5. RESTRAIN ALL PIPE JOINTS AND FITTINGS PER SPL WW-27A.
6. IF A FIRE HYDRANT IS MORE THAN 9 YEARS OLD, REMOVE AND SALVAGE. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO THE AUSTIN WATER UTILITY. NOTICE MUST BE GIVEN 48 HOURS PRIOR TO RETURN TO: PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINT. - VALVE AND HYDRANT SERVICES, SUPERVISING AWU PIPELINE TECHNICIAN AT 512-972-1133.
7. CONTRACTOR TO VERIFY SHUT OUT ON FIRE LINES PRIOR TO EXCAVATION TO ENSURE VALVES TO REMAIN IN PLACE.

LEGEND

- WATER VALVE
- FIRE HYDRANT
- WATER METER
- WASTE WATER MANHOLE

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE
			Bid 11-10-194

CobbFendley
TBPE NO. 274 / TBPLS NO. 10193891
1100 NORTHWEST LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78213
210.824.4011 | FAX 210.824.8206
WWW.COBBFENDLEY.COM

WATER LINE "A"
PLAN & PROFILE

NEENAH AVE. WIDENING
AUSTIN, TEXAS

WILLIAMSON COUNTY 1848

PROJ. NO. 1403-088-02
DESIGN: G. LITTLEFIELD
DRAWN: G. LITTLEFIELD
CHECK: J. HASTINGS
APPR: L. PARISHER
DATE: SEPTEMBER 14, 2017

STATE OF TEXAS
JAMES LANCE PARISHER
106221
LICENSED
PROFESSIONAL ENGINEER
9/14/17

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SHEET
C-105
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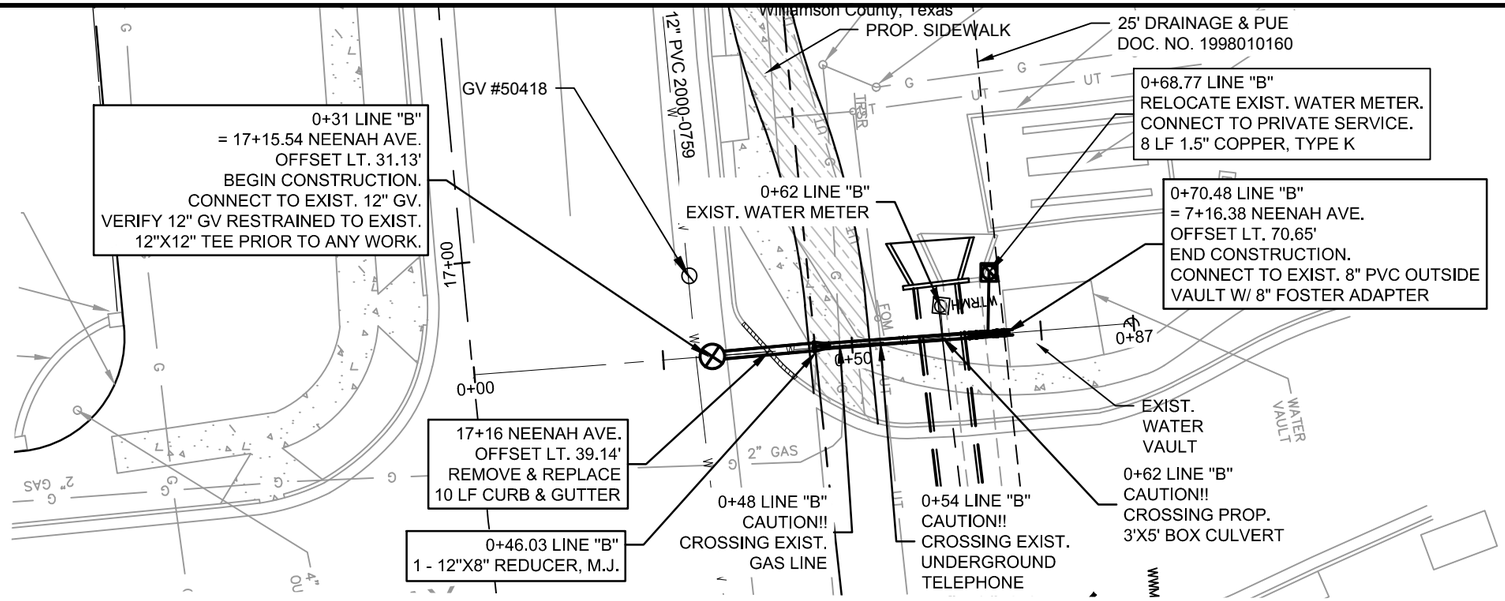
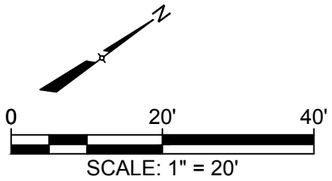
SP-2016-0186D

Dwg Info: G:\CFA\2014\0308801_williamson_county_2013_road_bond\MUN\34 neenah\DESIGN\CFA-NEENAH.dwg -- Tab: C-105 -- Plotted: 9/14/2017 4:27 PM By: KRISTEN VAN HOOSIER

Dwg Info: G:\CFA\2014\0308801_williamson_county_2013_road_bond\MUN\34 neenah\DESIGN\CFA-NEENAH.dwg – Tab: C-106 – Plotted: 9/14/2017 4:27 PM By: KRISTEN VAN HOOSIER





AWU GRID #H41-4
AWU INT. #23460

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. WHEN THE CONTRACTOR IS USING TRENCHLESS INSTALLATION METHODS, THE CONTRACTOR SHALL LOCATE ALL UTILITIES FOR THE ENTIRE LENGTH OF THE INSTALLATION PRIOR TO ANY ACTIVITIES.
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3. ANY DISCREPANCIES FROM WHAT IS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING WORK.
4. ALL WATER LINES SHALL BE DUCTILE IRON CLASS 350 AS DEFINED BY AWWA C151 AND DUCTILE IRON FITTINGS COMPLYING WITH AWWA C153 UNLESS OTHERWISE NOTED ON PLANS.
5. RESTRAIN ALL PIPE JOINTS AND FITTINGS PER SPL WW-27A.
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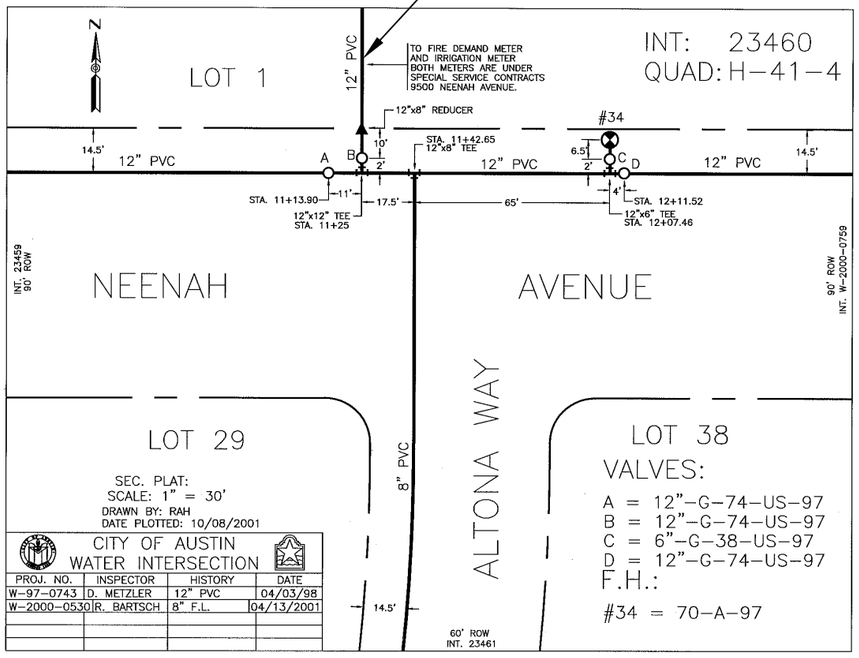
7. CONTRACTOR TO VERIFY SHUT OUT ON FIRE LINES PRIOR TO EXCAVATION TO ENSURE VALVES TO REMAIN IN PLACE.

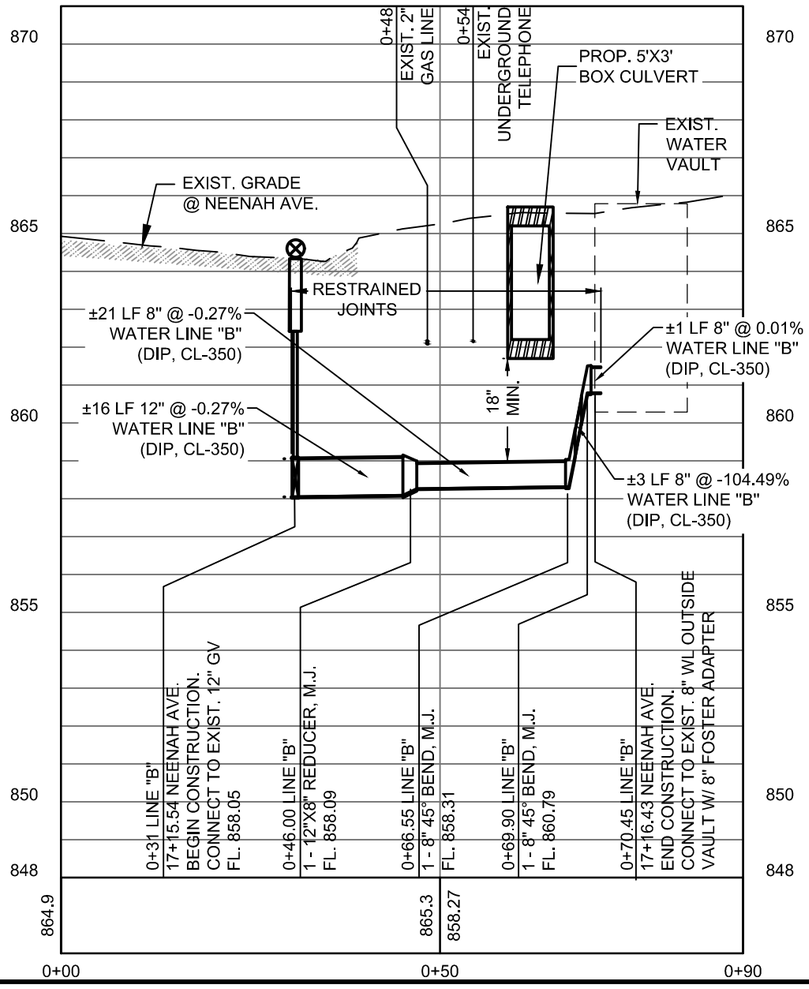
NOTE!
ACCORDING TO INT. #23460, PER THE 12"X8" REDUCER, WE ASSUME WE ARE CONNECTING TO 8" PVC, NOT 12" PVC.



CITY OF AUSTIN
WATER INTERSECTION

PROJ. NO.	INSPECTOR	HISTORY	DATE
W-97-0743	D. METZLER	12" PVC	04/03/98
W-2000-0530	R. BARTSCH	8" F.L.	04/13/2001

AWU INT. #23460



EXISTING GRADE
FLOW LINE OF PIPE
1281.7
1258.79

PROFILE SCALE
1"=20' HORIZ.
1"=4' VERT.

LEGEND
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- WASTE WATER MANHOLE

SP-2016-0186D

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley
TBPE NO. 274 / TBPLS NO. 10193891
1100 NORTHWEST LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78213
210.824.4011 / FAX 210.828.2648
WWW.COBBFENDLEY.COM

WATER LINE "B"
PLAN & PROFILE
NEENAH AVE. WIDENING
AUSTIN, TEXAS

WILLIAMSON COUNTY
1848

PROJ. NO. 1403-088-02
DESIGN: G. LITTLEFIELD
DRAWN: G. LITTLEFIELD
CHECK: J. HASTINGS
APPR: L. PARISHER
DATE: SEPTEMBER 14, 2017

STATE OF TEXAS
JAMES LANCE PARISHER
106221
LICENSED
PROFESSIONAL ENGINEER
9/14/17

THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT.

SHEET
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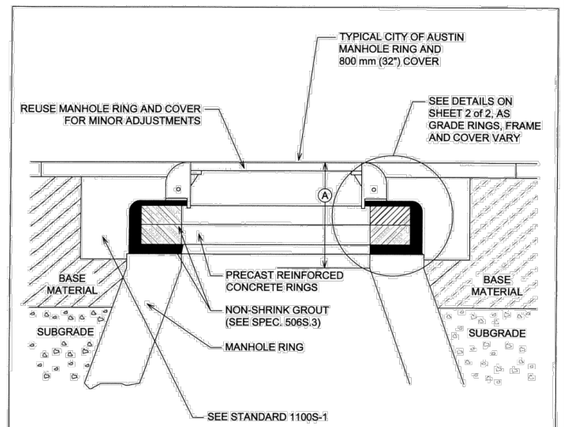
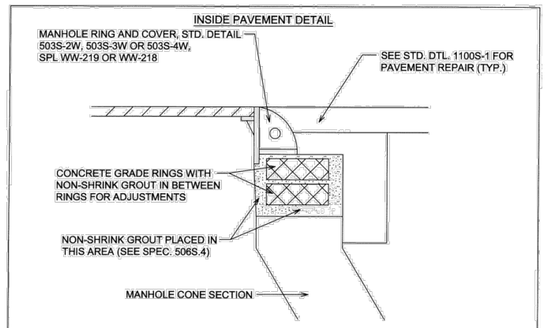


Ⓐ VERTICAL FACE = ALLOWABLE THROAT OR CHIMNEY HEIGHT
= NEW CONSTRUCTION = 525mm = (21") Max.
= EXISTING CONSTRUCTION = 675mm (27") Max.

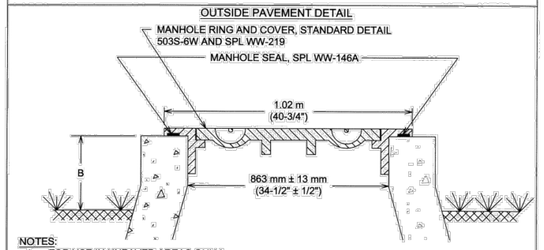
NOTES:
1. NON-SHRINK GROUT SHALL NOT EXCEED 25 mm (1") IN ANY DIMENSION.
2. SUB-GRADE AND BASE MATERIALS SHALL BE COMPACTED ACCORDING TO ITEMS 201S AND 210S, RESPECTIVELY, OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
3. REFER TO STANDARD 1100S-1 FOR REPAIRS AROUND MANHOLES.
4. SEE STANDARD 506S-4A FOR HDPE RING INSTALLATION (FOR USE IN PAVED AREAS ONLY).

CITY OF AUSTIN AUSTIN WATER UTILITY	MINOR MANHOLE ADJUSTMENT & NEW MANHOLE CONSTRUCTION	
Kathi L. Flowers 8/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-4 1 OF 2

INSIDE PAVEMENT DETAIL



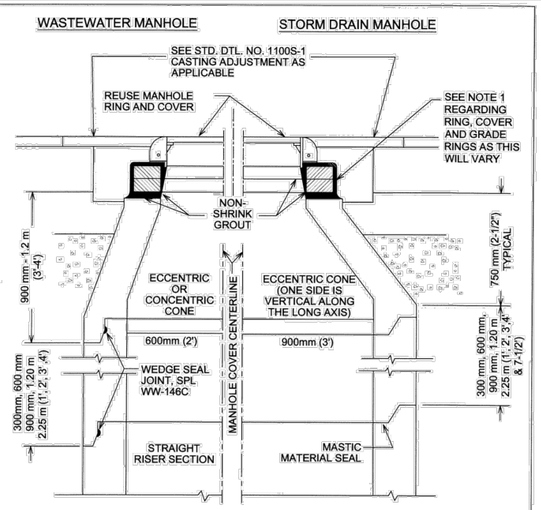
OUTSIDE PAVEMENT DETAIL



NOTES:
1. FOR USE IN UNPAVED AREAS ONLY
2. WHEN USED WITHIN 100-YEAR FLOODPLAIN, SEE DTL. 506S-6 FOR ADDITIONAL M.H. REQUIREMENTS.
3. DIMENSION B=150-300 mm (6"-12") FOR M.H. LOCATED IN 100-YR FLOOD PLAN. =50-300 mm (2"-12") FOR M.H. OUTSIDE 100-YR FLOOD PLAN.

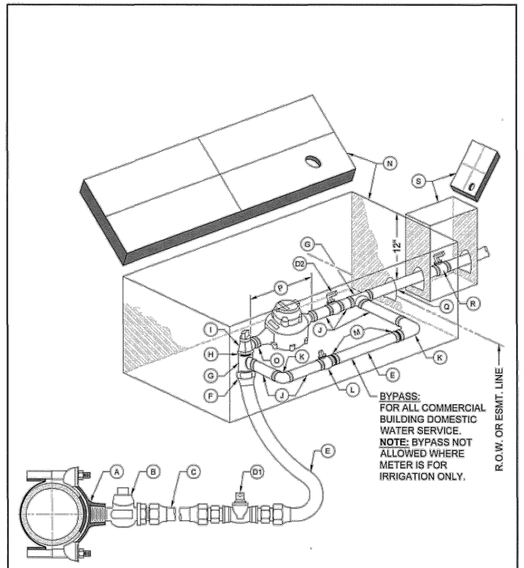
CITY OF AUSTIN AUSTIN WATER UTILITY	MINOR MANHOLE ADJUSTMENT & NEW MANHOLE CONSTRUCTION	
Kathi L. Flowers 8/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-4 2 OF 2

WASTEWATER MANHOLE STORM DRAIN MANHOLE



1. SEE "MINOR MANHOLE HEIGHT ADJUSTMENT" STANDARDS 506S-4 AND 506S-4A FOR ADDITIONAL INFORMATION.
2. MANHOLE SECTIONS TEMPORARILY REMOVED FOR ROADWAY CONSTRUCTION MAY BE REUSED ONLY WITH WRITTEN APPROVAL OF THE INSPECTOR. WEDGE SEALS SHALL NOT BE REUSED.
3. ANY COMBINATION OF REMOVING THE GRADE RINGS, AND/OR THE MANHOLE CONE, AND/OR THE STRAIGHT RISER SECTION OF THE MANHOLE SHALL BE ACCEPTABLE TO TEMPORARILY LOWER THE MANHOLE GRADE FOR RECONSTRUCTION.
4. WHILE THE MANHOLE IS TEMPORARILY LOWERED, A SHEET OF STEEL SUITABLE TO SUPPORT ALL IMPOSED LOADS SHALL BE USED TO COVER THE OPENING. STEEL SHALL BE PLACED SO THE SHEET WILL NOT MOVE UNDER ANY & ALL TRAFFIC CONDITIONS.
5. SUB-GRADE AND BASE MATERIALS SHALL BE COMPACTED TO 95% AND 100% DENSITIES, RESPECTIVELY, COMPACTION SHALL BE BY MECHANICAL TAMPING TO THE DENSITIES SPECIFIED, SEE STD. DTL. NO .1100S-1.

CITY OF AUSTIN AUSTIN WATER UTILITY	MAJOR MANHOLE ADJUSTMENT	
Kathi L. Flowers 8-31-2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-2



CITY OF AUSTIN AUSTIN WATER	1 ½" - 2" METER INSTALLATION SHOWING OPTIONAL BYPASS	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-04 1 OF 2

MATERIALS LIST:

A. 2" SERVICE CLAMP
B. 2" CORPORATION STOP MALE THREAD INLET BY COMPRESSION OUTLET
C. 2" COPPER WATER SERVICE TUBING EXTENDED BEYOND PAVEMENT
D1. 2" BALL VALVE, SPL WW-275
D2. 2" BALL VALVE, SPL WW-275
E. 2" COPPER SERVICE TUBING
F. 2" BRASS COUPLING - COMPRESSION TO MALE IPT
G. 2" BRASS TEE
H. 2" BRASS CLOSE-NIPPLE
I. 2" ANGLE METER STOP; SERVICE TUBING INLET x FLANGED OUTLET
J. 2" BRASS NIPPLE
K. 2" BRASS ELBOW
L. 2" LOCKABLE CURB STOP - FEMALE IPT INLET BY COMPRESSION OUTLET
M. 2" BRASS COUPLING - SERVICE TUBING TO MALE IPT
N. RECTANGULAR METER BOX AND COVER, SPL WW-145A
O. BRASS ADAPTER (2" x 1½") FOR 1½" METER ONLY
P. WATER METER, LENGTH 13", (PURCHASED FROM AUSTIN WATER)
Q. 2" COPPER SERVICE TUBING (PRIVATE PLUMBING PER CODE)
R. CUSTOMER CUT-OFF VALVE
S. CUSTOMER VALVE BOX AND LID

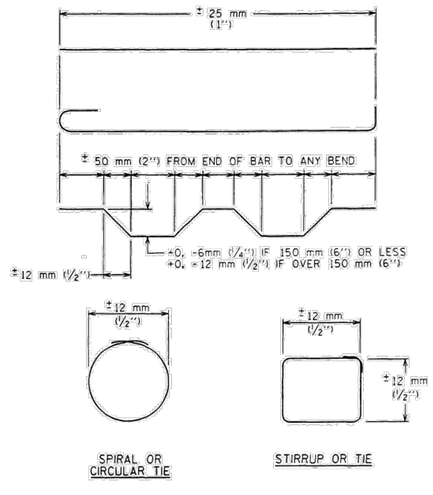
NOTES:

1. SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
2. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION.
3. TOP OF BOXES SHOULD BE 1" ABOVE GROUND.
4. PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
5. BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR TRAFFIC AREA AND SIDEWALK.
6. BALL VALVE "D1" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE LOCATED MORE THAN 24" HORIZONTALLY FROM METER BOX OR 36" BELOW FINAL GRADE.
7. COPPER SERVICE SHALL BE COPPER TUBING SIZE ANNEALED SEAMLESS TYPE "K" MEETING ASTM B88 WITH NO SWEAT OR SOLDERED JOINTS.

RECLAIMED WATER:

FOR RECLAIMED WATER SERVICES AND METERS, ALL RECLAIMED TUBING SHALL BE MANUFACTURED PURPLE TUBING. ALL OTHER TUBING AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL TUBING AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

CITY OF AUSTIN AUSTIN WATER	1 ½" - 2" METER INSTALLATION SHOWING OPTIONAL BYPASS	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-04 2 OF 2



NOTE:
FABRICATING TOLERANCES FOR BARS, FROM PLAN CENTERLINE DIMENSIONS SHALL NOT BE GREATER THAN SHOWN.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	REINFORCED STEEL TOLERANCES	
Lisa Rivera 9/29/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 406S-1

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley
TBPE No. F-2165 | TBPLS No. 10194381
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SAN ANTONIO, TEXAS 78752
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STANDARD WATER DETAILS

NEENAH AVE. WIDENING
AUSTIN, TEXAS

WILLIAMSON COUNTY 1848

PROJ. NO. 1403-088-02
DESIGN: G. LITTLEFIELD
DRAWN: G. LITTLEFIELD
CHECK: J. HASTINGS
APPR: L. PARISHER
DATE: JULY 18, 2017

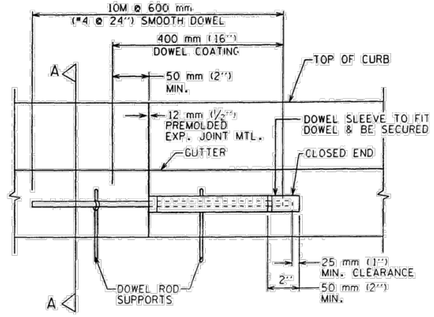
STATE OF TEXAS
JAMES LANCE PARISHER
106221
LICENSED
PROFESSIONAL ENGINEER
July 18, 2017

THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT

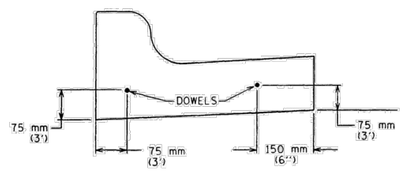
SHEET
C-501
270 of 273

SP-2016-0186D

Dwg Info: g:\CFA\2014\0308801_williamson_county_2013_road_bond\MUN\34 neenah\DESIGN\DETAILS.dwg — Tab: C-501 — Plotted: 8/8/2017 9:12 AM By: HEATHER BYRNE



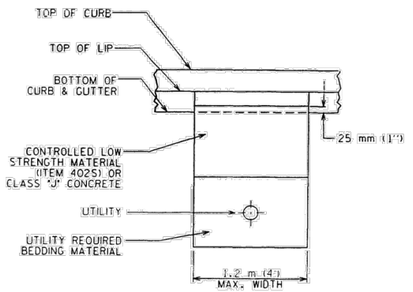
CURB EXPANSION JOINT DOWEL DETAIL

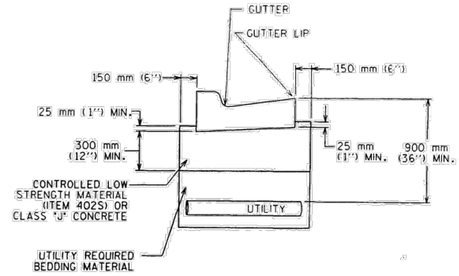


SECTION A-A

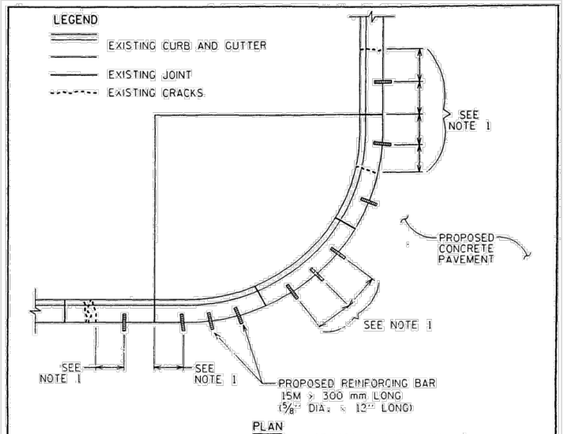
SEE STANDARD 430S-1 FOR TYPICAL CURB AND GUTTER SECTIONS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	CURB EXPANSION JOINT DOWEL DETAIL	
Lino Rivera 9/29/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-3

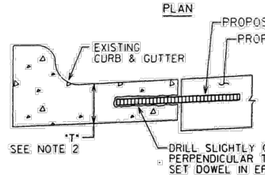




CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	CONCRETE BACKFILL UNDER CURB & GUTTER	
Lino Rivera 9/29/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-4



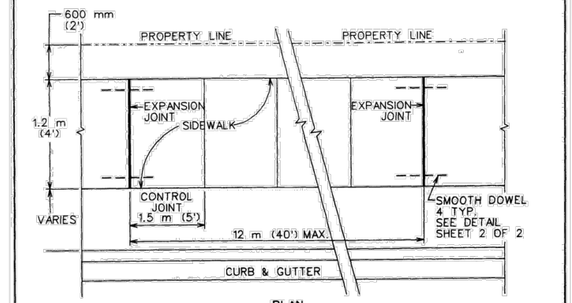
PLAN



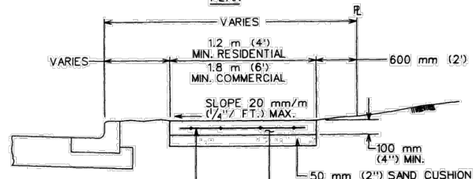
NOTES:

1. NORMAL SPACING OF REINFORCING BARS SHALL BE NOT LESS THAN 600 mm (24") AND NOT MORE THAN 900 mm (36") HOWEVER, REINFORCING BARS SHALL BE AT LEAST 300 mm (12") FROM EXISTING CRACKS OR JOINTS IN THE CURB AND GUTTER UNIT.
2. DO NOT ATTEMPT TO DRILL A HOLE IF "T" IS LESS THAN 100 mm (4").

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	REINFORCING BAR DETAIL AT EXISTING CURB AND GUTTER	
Lino Rivera 4/15/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-5



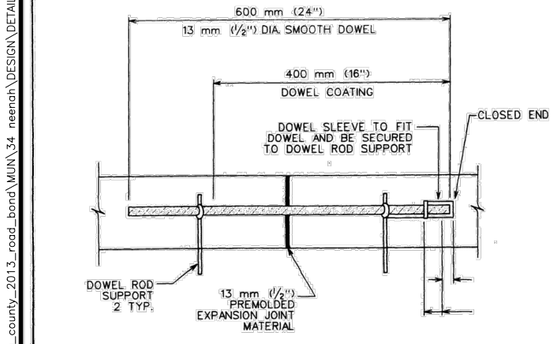
PLAN



POLYPROPYLENE FIBRILLATED FIBERS, OR 150 mm x 150 mm x MW9 x MW9 (6" X 6" X W1.4 X W1.4) WELDED WIRE FABRIC OR ONE LAYER 10M (#3) BARS PLACED NOT MORE THAN 450 mm (18") C.C. BOTH DIRECTIONS.
REINFORCEMENT SHALL ACCURATELY PLACED AT SLAB MID-DEPTH AND HELD FIRMLY IN PLACE BY MEANS OF BAR SUPPORTS OF ADEQUATE STRENGTH AND NUMBER THAT WILL PREVENT DISPLACEMENT AND KEEP THE STEEL AT ITS PROPER POSITION DURING THE PLACEMENT OF THE P.C. CONCRETE. IN NO INSTANCE SHALL THE STEEL BE PLACED DIRECTLY ON THE SUBGRADE OR SAND CUSHION LAYER.

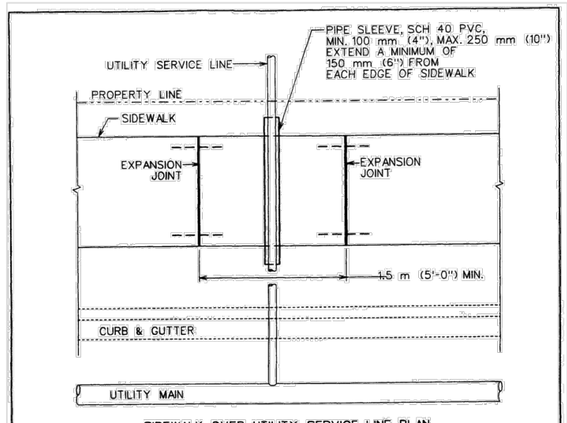
SECTION

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	
Bill Gardner 3/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-1 1 OF 3

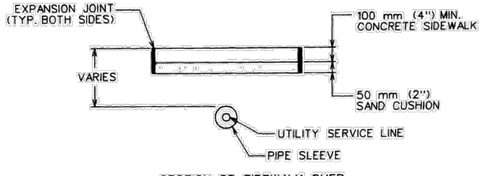


DOWEL DETAIL

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	
Bill Gardner 3/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-1 2 OF 3



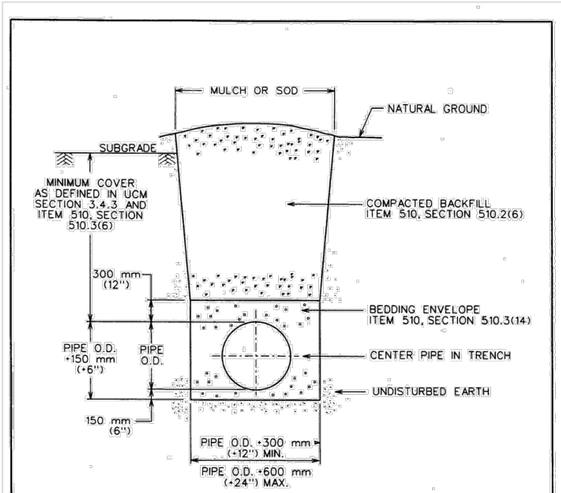
SIDEWALK OVER UTILITY SERVICE LINE PLAN



SECTION OF SIDEWALK OVER UTILITY SERVICE LINES

NOTES:
1. THIS STANDARD APPLIES TO THE INSTALLATION OF NEW UTILITIES OR UTILITIES BEING REPLACED BY A NEW LINE.
2. NO JOINTS IN UTILITY SERVICE PIPE TO BE LOCATED INSIDE PVC PIPE SLEEVE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	
Bill Gardner 3/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-1 3 OF 3



REFERENCES:

1. UTILITY CRITERIA MANUAL SECTION 3.4.3, "FINAL DESIGN"
2. STANDARD SPECIFICATION MANUAL ITEM 510,
   SECTION 510.2(6), "SELECT BACKFILL OR BORROW";
   SECTION 510.3(6), "TRENCH DEPTH AND DEPTH OF COVER";
   SECTION 510.3(14), "PIPE BEDDING ENVELOPE"

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL TRENCH DETAIL WITH UNFINISHED SURFACE	
Bill Gardner 3/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 510S-5

SP-2016-0186D

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

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STANDARD WATER, CONCRETE & STRUCTURE DETAILS

NEENAH AVE. WIDENING
AUSTIN, TEXAS

WILLIAMSON COUNTY 1848

PROJ. NO. 1403-088-02
DESIGN: G. LITTLEFIELD
DRAWN: G. LITTLEFIELD
CHECK: L. PARISHER
APPR: L. PARISHER
DATE: JULY 18, 2017

STATE OF TEXAS
JAMES LANCE PARISHER
106221
LICENSED
PROFESSIONAL ENGINEER
July 18, 2017

THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT

SHEET
C-502

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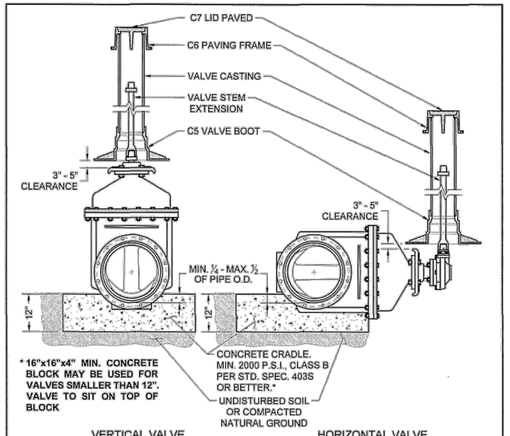


VERTICAL VALVE

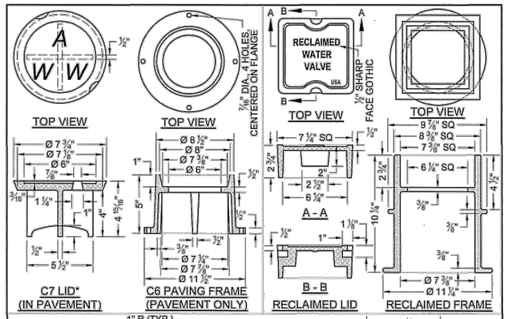
HORIZONTAL VALVE
ONLY TO BE USED WHEN CALLED OUT ON THE DRAWINGS.

NOTES:

1. WELD SOCKET 2⅝" x 2" DEEP TO 1" SCH. 40 CARBON STEEL ROUND STEM EXTENSION, FITTED ON OPERATING NUT, [SCH. 80 FOR LENGTHS OVER 10'.]
2. VALVE CASTING SHALL BE 6" DI PIPE WITH BELL OR COLLAR CENTERED OVER VALVE BOOT.
3. NUT AT TOP OF VALVE EXTENSION ROD SHALL BE SQUARE 2" LONG WELDED TO TOP OF ROD.
4. VALVE STEM EXTENSIONS ARE REQUIRED ON ALL VALVES THAT EXCEED 3' DEEP FROM FINISHED GRADE. VALVE EXTENSIONS SHALL BE PLACED SUCH THAT THE EXTENSION NUT IS BETWEEN 12" AND 18" FROM FINISHED GRADE.

RECLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-01 1 OF 4



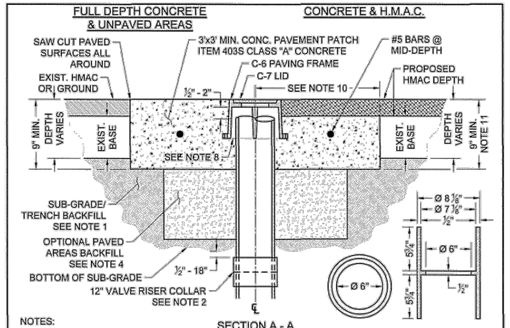
NOTES:

1. MATERIAL SHALL BE GRAY CAST IRON, ASTM A48, GRADE 30B.
2. THE MANUFACTURER'S IDENTIFICATION AND CASTING NUMBER, AND THE COUNTRY WHERE CAST, SHALL BE DISTINCTLY CAST ONTO EACH LID, FRAME, COLLAR AND BASE.
3. DRAFT AND SHRINKAGE ALLOWANCE SHALL BE IN ACCORDANCE WITH NORMAL FOUNDRY PRACTICE.
4. CASTING FINISH BY MANUFACTURER SHALL INCLUDE REMOVAL OF FINS AND FLASHING, AND PAINT WITH BLACK ASPHALT COATING.

WEIGHTS:
C7 LID: 13 LBS
RECLAIMED LID: 15 LBS
C6 FRAME: 23 LBS
RECLAIMED FRAME: 33 LBS
C5 BASE: 78 LBS

* LETTERING SHALL BE 1 ½" 2 PICK BAR SLOTS REQUIRED

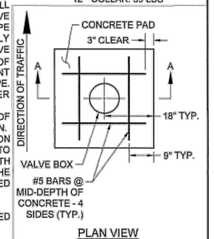
CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-01 2 OF 4



NOTES:

1. SUB-GRADE/TRENCH BACKFILL SHALL BE COMPACTED AS PER ITEM 201S, SUB-GRADE PREPARATION.
2. TO ADJUST VALVE CASTINGS TO FINAL GRADE, REMOVE RISER PIPE BELOW SUB-GRADE AND INSTALL APPROPRIATE LENGTH OF NEW RISER PIPE TO ACHIEVE FINAL GRADE. CONNECT THE TWO PIECES OF RISER PIPE WITH A 6" COLLAR MIN. 12" LENGTH APPROXIMATELY CENTERED ON THE JOINT WITH THE TOP OF SLEEVE LOCATED ½" - 18" BELOW SUB-GRADE. THE INSIDE "LIP" OF COLLAR TO BE PAINTED WITH FLUORESCENT WHITE PAINT OR COVERED WITH FLUORESCENT WHITE TAPE. ALTERNATE: FOR OPTIONAL SINGLE PIECE RISER INSTALLATION SEE SHEET 4 OF 4.
3. CLEAN VALVE BOX OF ALL DEBRIS DOWN TO THE NUT OF THE VALVE; NUT SHALL OPERATE WITH NO OBSTRUCTION.
4. WHERE CASTINGS TO BE REMOVED REQUIRE EXCAVATION GREATER THAN 20" DEEP, CONTRACTOR MAY ELECT TO FILL EXCAVATION WITH CONTROLLED LOW STRENGTH MATERIAL (SPEC. ITEM 402S) TO THE UNDERSIDE OF THE CONCRETE. PAVEMENT PATCH IN LIEU OF COMPACTED BACKFILL.
5. REINFORCING STEEL SHALL MEET SPEC. ITEM 406S.7.
6. NO MORE THAN 2 SECTIONS OF PIPE SHALL BE USED FROM VALVE TO FINAL GRADE.
7. BELL AND SPIGOT IS ACCEPTABLE FOR DEPTH OVER 18'.

12" VALVE RISER COLLAR
* 12" COLLAR: 39 LBS

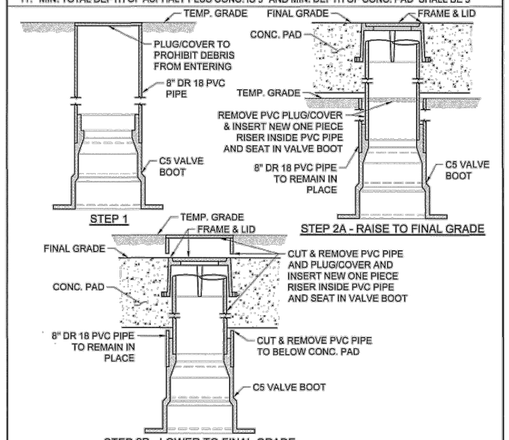


PLAN VIEW

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-01 3 OF 4

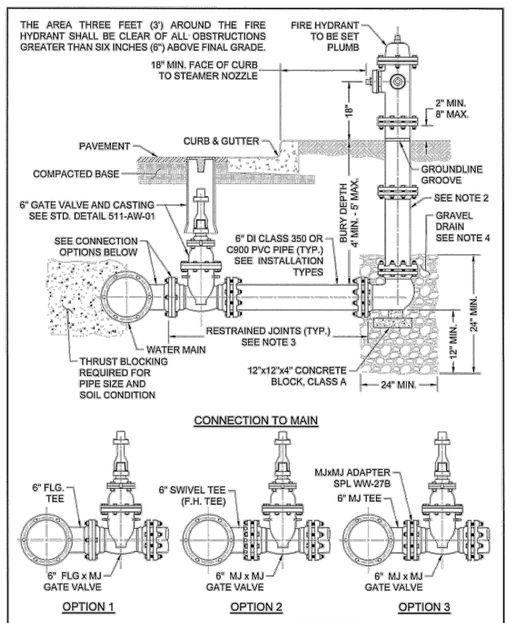
NOTES (CON'T):

8. PAVING FRAME SHALL BE FLUSH WITH THE CONC. PAD AND PLACED ½" - 2" ABOVE RISER PIPE (FRAME SHALL NOT REST ON RISER.)
9. IN UNPAVED AREAS, INSTALL ONE DELINEATOR STAKE IMMEDIATELY ADJACENT TO THE EDGE OF THE CONCRETE PAD. DELINEATOR SHALL BE BLUE FOR POTABLE WATER AND PURPLE FOR RECLAIMED WATER AND SHALL EXTEND AT LEAST 60" ABOVE GROUND. DELINEATORS SHALL HAVE 2" WIDE, WHITE IN COLOR, TYPE I REFLECTIVE TAPE MOUNTED DIAGONALLY AT 12" SPACING ON BOTH SIDES.
10. VALVE SHALL TYPICALLY BE CENTERED IN CONCRETE DIAMOND BUT MAY BE OFFSET WITH A MIN. OF 12" FROM CENTER OF VALVE LID TO EDGE OF CONCRETE IN ALL DIRECTIONS.
11. MIN. TOTAL DEPTH OF ASPHALT PLUS CONC. IS 9" AND MIN. DEPTH OF CONC. PAD SHALL BE 5"

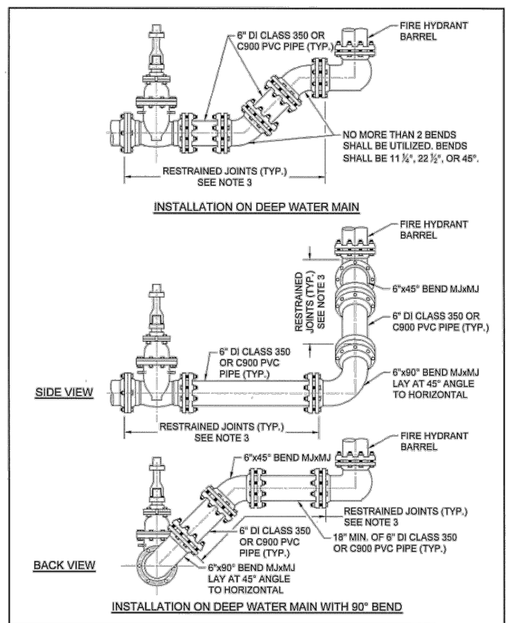


OPTIONAL ONE PIECE VALVE CASTING INSTALLATION

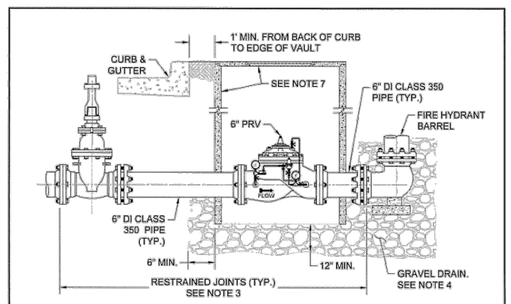
CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-01 4 OF 4



CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-02 1 OF 3



CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-02 2 OF 3



NOTES: APPLICABLE TO ALL INSTALLATION TYPES.

1. NO PART OF A HYDRANT OR ITS NOZZLE CAPS SHALL BE WITHIN 6" OF ANY SIDEWALK OR PEDESTRIAN RAMP. ANY FIRE HYDRANT PLACED NEAR A STREET CORNER SHALL BE LOCATED OUTSIDE THE CURVE RADIUS AND A MINIMUM OF 4' FROM RAMPS.
2. ONE BARREL EXTENSION NOT EXCEEDING 2' LENGTH MAY BE INSTALLED DIRECTLY BELOW THE FIRE HYDRANT IN ORDER TO MEET THE REQUIRED BURY DEPTH OF 4' - 5'. BREAK AWAY BOLTS (SHOE TYPES) SHALL BE PROPERLY SPACED AND PLACED.
3. FIRE LINE SHALL HAVE ALL JOINTS RESTRAINED FROM MAIN TO FIRE HYDRANT. JOINTS SHOWN MAY VARY. SEE SPL WW-27, WW-27A, AND WW-27B FOR RESTRAINT OPTIONS.
4. BELOW EACH HYDRANT, A DRAINAGE PIT 24" IN DIAMETER AND 12" DEEP SHALL BE EXCAVATED AND FILLED WITH COMPACTED COARSE GRAVEL OR BROKEN STONE MIXED WITH COARSE SAND UNDER AND AROUND THE BOWL OF THE HYDRANT, AND TO A LEVEL 12" ABOVE THE HYDRANT DRAIN OPENING (SEE STD. SPEC. 510). THE HYDRANT DRAINAGE PIT SHALL NOT BE CONNECTED TO A SANITARY SEWER. THE DRAIN GRAVEL SHALL BE COVERED WITH FILTER FABRIC PER STD. SPEC. 620S. FOR PRV, GRAVEL SHALL EXTEND UNDER THE PRV VAULT 12" MIN. DEPTH UNDER THE VAULT AND 6" MIN. BEYOND VAULT.
5. FOR FIRE HYDRANT LEADS AT A MAIN OUTLET LARGER THAN 6" DIAMETER, OUTLET SHALL BE FLANGED AND A FLG x FLG REDUCER SHALL BE INSTALLED DIRECTLY ON THE OUTLET.
6. WRAP 8 MIL. POLY-FILM WRAP ON ALL BURIED PIPE AND FITTINGS.
7. FOR HYDRANTS WITH PRV: CLASS III RCP VAULT 60" MIN. I.D. WITH REINFORCED PRECAST CONCRETE LID (AASHTO H-20 LOADING) WITH COA FRAME AND 32" COVER WITH LETTERING MODIFIED FOR WATER.

CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-02 3 OF 3

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley
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STANDARD WATER, CONCRETE & STRUCTURE DETAILS

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PROFESSIONAL ENGINEER
July 18, 2017

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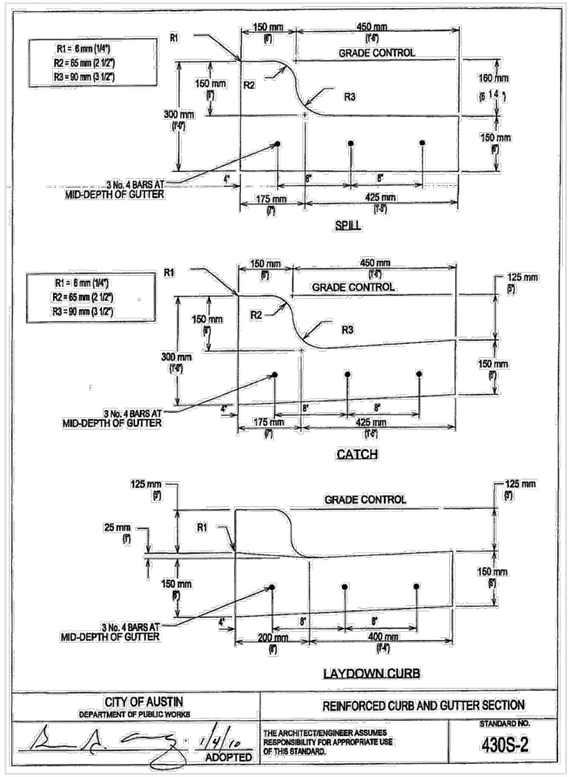

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	REINFORCED CURB AND GUTTER SECTION	
1/4/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-2

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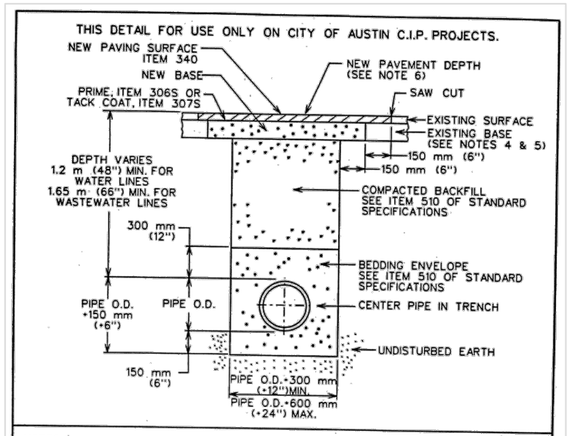

NOTES:

1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE A MINIMUM OF 300 mm (12") WIDER THAN THE UNDISTURBED SIDES OF THE TRENCH, SYMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
2. ANY CONCRETE PAVING SHALL BE SAW CUT 150 mm (6") WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
3. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX OR TEMPORARY HOT MIX ASPHALTIC CONCRETE.
4. ROAD BASE AND SURFACE MATERIALS IN THE TRENCH CUT SHALL BE REPLACED IN KIND OF EQUAL THICKNESS, OR MINIMUM BASE THICKNESS OF 250 mm (10"), WHICHEVER IS GREATER.
5. ALL DAMAGED AREAS OF PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH MINIMUM OF 200 mm (8") OF BASE OR MATCH EXISTING THICKNESS, WHICHEVER IS GREATER.
6. SURFACE PAVEMENT SHALL BE OF THE KIND AND THICKNESS AS EXISTING, OR MINIMUM 50 mm (2"), WHICHEVER IS GREATER.

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	TYPICAL TRENCH WITH PAVED SURFACE	
Leon Barley P.E. 8/19/02 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 510S-3

SP-2016-0186D

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

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STANDARD WATER, CONCRETE & STRUCTURE DETAILS

NEENAH AVE. WIDENING
AUSTIN, TEXAS

WILLIAMSON COUNTY 1848

PROJ. NO. 1403-088-02
DESIGN: G. LITTLEFIELD
DRAWN: G. LITTLEFIELD
CHECK: L. PARISHER
APPR: L. PARISHER
DATE: JULY 18, 2017

STATE OF TEXAS
JAMES LANCE PARISHER
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PROFESSIONAL ENGINEER
July 18, 2017

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Geotechnical Engineering Report

Neenah Avenue Widening

From Olive Hill Road to End of Existing Neenah Avenue

Austin, Texas

August 10, 2015

Terracon Project No. 96155065

Prepared for:

Williamson County
c/o Bury, Inc.
Austin, Texas

Prepared by:

Terracon Consultants, Inc.
Austin, Texas

terracon.com

Terracon

Environmental ■ Facilities ■ Geotechnical ■ Materials

August 10, 2015

Williamson County
c/o Bury, Inc.
221 West 6th Street, Suite 600
Austin, Texas 78701

Attention Ms. Stephanie Blew, Sr. Project Manager
P: (512) 328-0011
F: (512) 328-0325
E: sblew@buryinc.com

Regarding: Geotechnical Engineering Report
Neenah Avenue Widening
From Olive Hill Road to End of Existing Neenah Avenue
Austin, Texas
Terracon Project No. 96155065

Dear Ms. Blew:

Terracon Consultants, Inc. (Terracon) is pleased to submit our Geotechnical Engineering Report for the Neenah Avenue Widening project to be located between Olive Hill road and the end of the existing Neenah Avenue, in Austin, Texas. We trust that this report is responsive to your project needs. Please contact us if you have any questions or if we can be of further assistance.

We appreciate the opportunity to work with you on this project and look forward to providing additional Geotechnical Engineering and Construction Materials Testing services in the future.

Sincerely,
Terracon Consultants, Inc.
(TBPE Firm Registration: TX F3272)

Alexander D. Krumenacher, E.I.T.
Staff Geotechnical Engineer

Bryan S. Moulin, P.E. 08/10/2015
Principal, Geotechnical Department Manager

STATE OF TEXAS
BRYAN S. MOULIN
91084
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PROFESSIONAL ENGINEER

Copies Submitted: (1) Electronic

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Terracon

GEOTECHNICAL ENGINEERING REPORT
NEENAH AVENUE WIDENING
FROM OLIVE HILL ROAD TO END OF EXISTING NEENAH AVENUE
AUSTIN, TEXAS

Terracon Project No. 96155065
August 10, 2015

1.0 INTRODUCTION

Terracon is pleased to submit our Geotechnical Engineering Report for the Neenah Avenue Widening project to be located between Olive Hill road and the end of the existing Neenah Avenue, in Austin, Texas. This project was authorized through signature of Bury's "Agreement between Engineer and Consultant" on March 2, 2015. The project scope was performed in general accordance with Terracon Proposal No. P96150166, Revision 1 dated May 20, 2011.

The purpose of this report is to describe the subsurface conditions observed at the borings drilled for this project, analyze and evaluate the test data, and provide recommendations with respect to:

- Pavement design and construction;
- Site, subgrade, and fill preparation; and
- Lateral earth pressure and drainage for site retaining walls.

2.0 PROJECT INFORMATION

2.1 Site Location and Description

Item	Description
Location	This project site is located on the south side of the existing Neenah Avenue from its intersection with Olive Hill Road on the west to the end of the currently existing Neenah Avenue on the east. The site is located within the City of Austin's Extra-Territorial Jurisdiction (ETJ), not the City limits. All funding for the project is through Williamson County.
Existing Improvements	Two-lane asphaltic concrete roadway with concrete curbs, bordered by concrete sidewalks and grassy landscaped areas.
Existing Ground Cover	On the south side of the existing Neenah Avenue (where the widening is planned), the ground appears to be covered by concrete sidewalks, grass, and scattered trees.

Item	Description
Existing Topography	Exact elevations have not been provided to us at this time, but it appears that the adjacent ground to the south of the roadway is relatively level to sloping downhill away from the roadway.

2.2 Project Description

Item	Description
Site layout	See Exhibit A-2, Boring Location Aerial, in Appendix A.
Proposed Roadway Widening	Approximately 3,000 linear feet of Neenah Avenue will be widened to the south to create a 4-lane Minor Arterial, Divided public roadway. Bury would like to consider the following three options for the thickness design: 1) Full-depth asphalt; 2) Asphalt over base over lime-treated clay; and 3) Asphalt over base over geogrid over compacted clay. The pavement thickness design will be based upon current Williamson County and City of Austin standards and guidelines.
Ancillary Improvements	■ 8-foot wide reinforced concrete sidewalks on the north and south sides of the roadway, per City of Austin standards. ■ Numerous improvements to Drainage Swale A, including an extension of the existing box culvert under the roadway at STA 23+00. All of the planned improvements are discussed in detail in **Section 4.8.** ■ Multiple tree-well walls ranging up to 8 feet tall.
Grading	Exact grading is unknown at this time, but we understand that the roadway will be cross-sloped (not crowned in the center) to promote sheet-flow from the widened southern side to the existing northern side where runoff will collect into the storm inlets. We anticipate that fills could range from less than one foot to as much as eight feet.
Adjacent Fill Slopes	Assumed to be no steeper than 3H:1V (Horizontal to Vertical).
Free-Standing Retaining Walls	Walls up to 8 feet tall are planned.
Below-Grade Excavations	Only for the new stormwater line and the culvert headwall extension.

3.0 SUBSURFACE CONDITIONS

3.1 Geology

Based on our review of available geologic information[1] and the samples obtained from the test borings, the study area appears to lie within an area characterized by limestone of the Edwards Formation of Lower Cretaceous Age. The Edwards Formation limestone is typically comprised of limestone and dolomitic limestone. Characteristics of the Edwards which are of engineering importance include karst features such as sinkholes, solution cavities and channels, collapse breccia, and vugular zones. In addition, clay seams and layers are present in the Edwards Formation limestone.

3.2 Typical Profile

Based on the results of the borings, subsurface conditions on the project can be generalized as below. Due to utility concerns in the proposed widening area of Neenah Avenue, all 6 of the borings were drilled in the roadway through the existing pavement section. The existing pavement section was observed to consist of between about 4 and 6 inches of asphalt overlying about 1 to 2½ feet of base material. Note, that it was difficult to accurately determine the thickness of the base section due to the presence of gravelly fill soils beneath the base material, the relatively deep thicknesses of the apparent base sections in some borings, and the limitations of augering through the base.

Description	Approximate Depth Range of Stratum, feet	Material Encountered
Stratum I	0 to >10	Fill and Possible Fill: Fat Clay (CH) to Fat Clay with Sand (CH) to Fat Clay with Gravel (CH) to Gravelly Fat Clay with Sand (CH) to Clayey Sand with Gravel (SC) to Silty Sand with Gravel (SM) to Clayey Gravel with Sand (GC)
Stratum II	3½ to >10	Limestone – Edwards Formation

The Stratum I fill and possible fill (and possibly natural) soils encountered in the borings generally exhibited a variable to very high shrink/swell potential as indicated by the following measured liquid limits, plastic limits, and fines contents (percent passing the No. 200 sieve):

1 *Garner, L.E. and Young, K.P., "Environmental Geology of the Austin Area: An Aid to Urban Planning", Bureau of Economic Geology, The University of Texas at Austin, 1976.*

Sample Location	Depth (feet)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Fines (%)
Boring B-1	½ – 1	19	16	3	33
Boring B-1	3 – 3½	57	21	36	-
Boring B-2	3 – 4	-	-	-	22
Boring B-3	½ – 2	18	16	2	29
Boring B-3	2 – 3½	85	27	58	-
Boring B-3	6 – 7½	-	-	-	34
Boring B-4	2 – 3½	70	20	50	-
Boring B-4	4 – 5½	53	21	32	95
Boring B-4	6 – 7	-	-	-	47
Boring B-5	½ – 2	103	27	76	43
Boring B-5	2 – 3½	100	25	75	62
Boring B-5	4 – 5½	-	-	-	45
Boring B-5	6 – 7½	71	21	50	30
Boring B-6	½ – 2	99	30	69	64
Boring B-6	4 – 5½	86	25	61	18
Average	**-**	**69**	**23**	**47**	**44**

The in-situ moisture content of the Stratum I soils ranged from 20 percent dry of, to 6 percent wet of corresponding plastic limits. A hand penetrometer reading of 3.0 tsf was recorded for a sample of the Stratum I soil at boring B-1. Standard penetration test (SPT) blow counts (N-values) for the Stratum I soils were found to vary from 10 blows per foot (bpf) to 50 blows per 3 inches of penetration. The higher blow counts are likely due to the presence of larger gravel, cobbles, and possible boulders within the fill soils. Portions of these soils are the completely weathered to residual soils of the underlying Edwards limestone.

The Stratum II light gray to light brownish-gray to gray Edwards Formation limestone was encountered at depths ranging from about 3½ to 8½ feet below the existing road surface. SPT N-values in the upper portions of the Stratum II limestone varied from 50 blows per 4 inches, to 50 blows per 2 inches of penetration.

Conditions encountered at the boring locations are indicated on each individual boring log. Stratification boundaries on the boring logs represent the approximate location of changes in subsurface material types; in-situ, the transition between materials may be gradual. Details for the borings can be found on the boring logs on Exhibits A-4 through A-9 of Appendix A.

3.3 Groundwater

The borings were dry augered to completion depths of about 10 feet below existing grade. Groundwater was not observed during dry augering of the borings.

Although not observed during our field exploration, groundwater seepage is possible at the site, particularly in the form of seepage traveling along pervious seams/fissures in the gravelly fill soils, along the soil/limestone interface, and/or in fissures/fractures in the limestone. During periods of wet weather, zones of seepage may appear and isolated zones of "perched water" may become trapped (or confined) by zones possessing a low permeability. Groundwater conditions at the site could fluctuate as a result of seasonal and climatic variations. Please note that it often takes several hours/days for water to accumulate in a borehole and geotechnical borings are relatively fast, short-term, boreholes that are backfilled the same day. Long-term groundwater readings can more accurately be achieved using monitoring wells. Please contact us if this is desired. Groundwater conditions should be evaluated immediately prior to construction.

3.4 Discussion of Lime Treatment of On-Site Clayey Soils

Lime treatment of clay subgrade typically enhances the workability and support characteristics of the subgrade, as well as provides a barrier to reduce moisture infiltration into the underlying clay subgrade. Lime treatment also typically helps to reduce the shrink/swell potential of the lime-treated layer. However, excessive concentrations of sulfates in the soils can result in poor performance of lime treated subgrade. Initial sulfate testing is currently in progress.

To assist in this determination, we subcontracted with an analytical laboratory to perform four (4) sulfate/chloride tests on representative samples of the soils at this site. The test results are presented below.

Boring	Sample Depth, feet	Stratum & Soil Description	Chloride Content, ppm-dry	Sulfate Content, ppm-dry
B-1	3 – 3½	Stratum I Fat Clay with Sand (CH)	40	248
B-4	½ – 2	Stratum I Silty Sand with Gravel (SM)	39	52
B-5	0 – 1½	Stratum I Variable Fill (CH to GC)	39	669
B-6	2 – 3½	Stratum I Gravelly Fat Clay with Sand (CH)	38	951

Based on numerous research studies performed by educational institutions, regulatory agencies, and both public and private entities, soils that contain significant amounts of soluble sulfates are not optimal candidates for lime treatment and may result in excessive heave and subsequent distress to the pavements. Soluble sulfate levels of up to 3,000 ppm or less are generally considered to be acceptable for lime treatment. Soluble sulfate levels between 3,000 ppm and 10,000 ppm in clay soils are generally considered to be moderate to high and pose a greater risk

to successful traditional lime treatment. As can be seen above, lime treatment of the Stratum I soils generally appears to be feasible.

Once final pavement subgrades are established, additional sulfate content testing should be performed to ensure that the soils to be lime-treated do not contain high sulfates. We suggest testing via TEX-620-J on an approximate frequency of one test per 10,000 square feet of paving subgrade. In addition before imported paving fill is hauled to the jobsite, it should be tested for sulfate contents also.

In conjunction with the sulfate content tests, a soil-lime relationship test was also conducted on a bulk sample of the Stratum I fat clay. A potential optimum percentage of lime to be added to the soils was evaluated based on plasticity index tests conducted on the subgrade soils treated with various percentages (by dry soil weight) of lime. However, this should only be taken into consideration after further testing of subgrade soils for sulfates as specified above. Results of the lime-series test are presented in the following table.

Percent Lime Added by Soil Dry Weight (%)	Liquid Limit, LL	Plastic Limit, PL	Plasticity Index, PI	pH
0	46	22	24	7.2
4	46	36	10	12.5
6	46	36	10	12.5
8	45	36	9	12.5
10	45	36	9	12.5

Based on the above information, we recommend at least 7 percent lime as measured by dry soil weight to a depth of 8 inches below the base material be used for planning and budgetary purposes. We strongly suggest that additional lime-series testing be performed once the final roadway subgrade is exposed. At least one sample from each paving subgrade type should be tested for pH (minimum pH of 12.3 to 12.4) per TEX-112-E and for plasticity index (PI≤20) per ASTM D6276.

Note, that the on-site soils contain significant amounts of gravel. Locally, lime treatment is usually not performed on soils with significant gravel content as it can cause damage to the mixing equipment and slow production. However, it can still be done.

There is some concern when deciding to use lime. Dry hydrated lime should not be used as dust clouds can occur. Lime slurry should be used but the area can become very wet, soft, and muddy. However, slurry is the typical form of application.

4.0 RECOMMENDATIONS FOR DESIGN AND CONSTRUCTION

Based on our test borings, expansive soils that exhibit a variable to very high potential for volumetric change during moisture variations are present at the site. The soils along the roadway exhibit a Potential Vertical Rise (PVR) of up to about 2½ inches, as estimated by the Texas Department of Transportation (TxDOT) Method TEX-124-E, if present in a dry condition. After construction of the roadway widening, we expect the PVR to be on the order of about 1½ to 1¾ inches.

The following recommendations are based upon the data obtained in our field and laboratory programs, project information provided to us, and on our experience with similar subsurface and site conditions. Throughout this report, references are made to TxDOT and/or COA construction specifications, standards, and/or test methods. All of these references are intended to imply the most current versions of published specifications, standards, and/or test methods.

4.1 Earthwork

Construction areas should be stripped of existing asphaltic pavements, base material, concrete curbs, any organics, debris, and other unsuitable material. All utilities and associated bedding materials that are planned to be abandoned/demolished should be completely removed from within the proposed pavement area. If it's not possible to completely remove them, the abandoned utility lines should be thoroughly grouted and plugged with flowable fill (per TxDOT Item 401 or COA Item 402S) such that they do not become a conduit for water flow beneath the proposed roadways or utility installations. Roots of trees to be removed within construction areas should be grubbed to full depths, including the dry soil around the roots. Site stripping/excavation operations in cut areas could loosen limestone rocks/boulders which should be either properly broken down or removed from the site. We recommend that Terracon be retained to assist in evaluating exposed subgrades during earthwork so that unsuitable materials, if any, are removed at the time of construction.

Once final subgrade elevations have been achieved, the exposed subgrade (and subsequent crushed limestone base material lifts) should be carefully proofrolled per TxDOT Item 216 or COA Item 236S to detect weak zones in the subgrade and/or base. Weak areas detected during proofrolling should be removed and replaced with soils exhibiting similar classification, moisture content, and density as the adjacent in-situ soils. Proper site drainage should be maintained during construction so that ponding of surface runoff does not occur and causes construction delays and/or inhibit site access.

4.1.1 Compaction Requirements

Recommended compaction and moisture content criteria for engineered fill materials are as follows:

Fill Type [1]	TxDOT or USCS Classification	Acceptable Location For Placement [2]
Flexible Base [3]	TxDOT Item 247, Grade 1-2 or COA Item 210S	Pavement Base
Imported Type C Earthen Embankment Fill [3, 4]	TxDOT Item 132, Type C (6≤PI≤30)	Within roadway limits, including embankments
General Fill [5]	On-site excavated soils	For site grading within roadway limits, including embankments.
Bedding Material [6]	TxDOT Item 556, Type C Bedding	Under, beside, and above new utility lines and box culverts, or as specified by the designer and/or manufacturer.
Utility Backfill [7]	CH, CL, SC, GC	Above bedding material, up to final grades.
Alternative Backfill [8]	–	Flowable Backfill per TxDOT Item 401, or Controlled Low Strength Material (CLSM) per COA Item 402S

1. Prior to any filling operations, samples of proposed borrow and/or on-site materials should be obtained for laboratory testing. The tests will provide a basis for evaluation of fill compaction by in-place density testing. A qualified soil technician should perform sufficient in-place density tests during the filling operations to evaluate that proper levels of compaction, including dry unit weight and moisture content, are being attained.
2. All fill should be placed in maximum loose lift thicknesses of 8 inches with compacted lift thicknesses of no more than 6 inches. All lifts should be tested for density and moisture control, as well as proofrolling.
3. Imported flexible base and Type C embankment fill should meet the requirements of the Texas Department of Transportation (TxDOT) 2014 Standard Specifications mentioned above. Type C embankment fill should not include any rocks larger than 4 inches, prior to spreading and compaction.
4. The use of imported “crusher fines” to meet the Type C embankment fill specifications is prohibited due to their susceptibility to poor support characteristics upon exposure to excessive moisture/wet weather.
5. Excavated on-site soils, if free of organics, debris, and rocks larger than 4 inches, may be considered for use as fill as pavement subgrade and paving/embankment fill. Wet and/or organic-laden clays from utility excavation on box culvert areas should not be used as general fill.
6. Bedding material to be specified by pipe manufacturer and/or design engineer.
7. Excavated on-site soils and processed rock, if free of organics, debris, and rocks larger than 4 inches, may be considered for use as backfill in utility trenches and around manholes. Wet and/or organic-laden clays from utility excavation on box culvert areas should not be used as utility backfill.
8. May be used in any areas if preferred over the placement and compaction of soil backfill. This may be most advantageous around manholes where soil compaction is often difficult. Undercompaction of soil backfill can lead to future settlement and radial cracking in pavements adjacent to manholes.

Fill Type		Percent Compaction	Water Content
Flexible Base		100% TEX-113-E	-3% to +3% of optimum
Type C Earthen Embankment Fill	PI≤20	■ All fill less than 5 feet: ≥ 95 percent of the TEX-113-E or TEX-114-E (depending upon soil type) ■ For fills greater than 5 feet in depth: ≥ 100 percent of the TEX-113-E or TEX-114-E (depending upon soil type)	-3% to +3% of optimum
	20<PI≤30		Optimum to +4% of optimum
General Fill (On-Site Soils with PI≥20)		■ All fill less than 5 feet: ≥ 95 percent of the TEX-113-E or TEX-114-E (depending upon soil type) ■ For fills greater than 5 feet in depth: ≥100 percent of the TEX-113-E or TEX-114-E (depending upon soil type)	Optimum to +4% of optimum
General Fill (On-Site Soils with PI≤20) and Bedding Material			-3% to +3% of optimum

Engineered fill materials should be placed in horizontal, loose lifts not exceeding 8 inches in thickness and should be thoroughly compacted. Where light compaction equipment is used, as is customary adjacent to manholes and in utility trenches, the lift thickness may need to be reduced to achieve the desired degree of compaction.

We recommend that engineered fill be tested for moisture content and compaction during placement. Should the results of the in-place density tests indicate the specified moisture or compaction limits have not been met, the area represented by the test should be reworked and retested as required until the specified moisture and compaction requirements are achieved.

4.1.2 Watering and Establishment of Vegetation along Pavement Edges

Although methods can be undertaken to reduce the possibility of cracking in the pavement, cracking may still occur. Most pavement cracking over expansive clay soils begins longitudinally within a few feet roughly parallel to the pavement edges and then progresses inward. This is due to an edge drying or wetting process in which the soils adjacent to the pavement subgrade either wick moisture away from the subgrade or provide excess moisture into the subgrade. Either process typically leads to subgrade shrinking or swelling, which then results in cracks propagating upward through the subgrade, base, and into the surficial asphalt. Treating the subgrade soils with lime and/or using geogrid can help to reduce the effects of edge drying/wetting and crack propagation, but neither method will completely mitigate the potential for this occurrence.

The primary goal when attempting to reduce the potential for edge cracking is to maintain relatively consistent moisture levels in the subgrade and the adjacent soils throughout the entire construction process and afterwards throughout the pavement life.

Terracon recommends that a provision be added to the plans and specifications to require the Contractor to water the subgrade and adjacent soils daily at a minimum (possibly twice per day may be needed) to reduce drying and desiccation cracks from developing in the soils. As soon as the initial subgrade is placed and/or lime-treated and until final paving acceptance, the Contractor should begin the process of daily watering to establish and maintain healthy grassed vegetation along the pavement edges, as grass reduces the underlying soil temperature and evapotranspiration of moisture from the soil. This watering process to establish vegetation should not be left until the end of construction. Overwatering or saturating the soils is not the intent. The intent is to provide only sufficient water to promote grass growth and establishment.

4.1.3 Horizontal Moisture Barriers

If the daily watering discussed in **Section 4.1.2** above cannot be performed due to drought-driven watering restrictions, then another option is to use horizontal moisture barriers. The barrier should consist of a minimum 30-mil moisture barrier (polyethylene, EPDM, or HDPE are all acceptable). Adjoining sheets should be overlapped by at least 18 inches and taped/sealed if necessary to prevent slippage and loss-of-overlap during subsequent fill placement and earthwork. At a minimum, the barriers should be covered with at least 12 inches of topsoil (or more to reduce accidental puncturing).

The barrier should be installed to a distance of at least 6 feet (or further if possible) beyond paved edges and at least 3 feet (or further if possible) beyond the flexible base, geogrid, and lime-treated subgrade. Where sidewalks are present near the roadway, the moisture barrier should extend from the roadway to at least 12 inches into the sidewalk limits (the concrete sidewalk will act as a type of horizontal barrier also, provided all joints/cracks are sealed and maintained).

4.2 Pavement Design Recommendations

Based on information provided to us by Bury, Neenah Avenue should be designed to meet City of Austin (COA) guidelines which includes the use of the guidelines and procedures outlined in the COA Transportation Criteria Manual (TCM), particularly Section 3 of the TCM which outlines the computerized pavement design software known as MFPS-1.

For the roadway design, we understand that the proposed roadways are to be designed using the “4 Lane Divided Minor Arterial” street classification. If the above street classifications change, please notify us to revise our pavement design analyses.

We also understand that Bury would like to consider the following three options for the pavement thickness design:

- Asphalt over base over lime-treated or moisture conditioned subgrade (options 1 and 2);
- Full-depth asphalt (options 3 and 4); and
- Asphalt over base over geogrid over compacted clay (options 5 and 6).

4.2.1 Traffic Data

Asphaltic concrete pavement thickness for the proposed roadway for this project was evaluated using the COA computerized pavement design program MFPS-1 in accordance with the guidelines outlined in the COA TCM. Traffic-related design parameters are tabulated below. If any of the parameters in the tables below are known to be inaccurate, please notify us to revise our pavement design analyses.

Traffic-Related Design Parameter	4 Lane Divided Minor Arterial
Initial Average Daily Traffic, ADT (vehicles per day)	9,000
Percent Trucks in Average Daily Traffic, %	10.9
18-kip Equivalency Factor for Standard City Truck	0.62
Total Equivalent 18-kip Single Axle Load Applications, based on Theoretical 20-year Pavement Life	3,020,000
Yearly Percent Growth, %	4.0
Initial Serviceability Index	4.2
Terminal Serviceability Index	2.5

4.2.2 Recommended Pavement Thicknesses

In the tables below, pavement component thickness recommendations are provided for an approximate 20-year traffic design under the traffic loading given above. As with all pavements, periodic maintenance is expected in the form of crack sealing. A surface coating or overlay would be expected after about 10 years of service under the design traffic.

FLEXIBLE PAVEMENT SECTIONS

Component	Material Thickness (Inches)					
	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6
Asphaltic Concrete (HMAC Type D)	2.0 (all options)					
Asphaltic Concrete (HMAC Type C)	4.0		2.0	2.0	4.0	
Asphalt Stabilized Base (ASB) (HMAC Type B)	-		11.5	9.5	-	
Crushed Limestone Base (CLB)	18.0	13.0	-		16.0	14.0
Geogrid between Base & Subgrade	-				Type II per TxDOT DMS 6240[1]	Tensar® TX-5
Lime-Treated Subgrade (LTS)	-	8.0	-	8.0	-	
Moisture Conditioned Subgrade (MCS)	6.0	-	6.0	-	6.0	
Total Thickness (including LTS/MCS)	**30.0**	**26.0**	**20.5**		**28.0**	**26.0**

1. For Option 5, the Type II geogrid should be placed at a depth of 6 inches beneath the bottom of the asphalt layer, within the CLB section. In other words, there should be 6 inches of CLB above, and 10 inches of CLB beneath the geogrid.

4.2.3 Pavement Materials

Presented below are our recommended material requirements for the various pavement components mentioned previously in this report.

Hot Mix Asphaltic Concrete (HMAC) – As tabulated above, the asphaltic concrete should be plant mixed, hot laid Type D (Fine-Graded Surface Course) and hot laid Type C (Coarse-Graded Surface Course) meeting the master specification requirements in COA Item 340S or TxDOT Item 340. Asphalt stabilized base (ASB) should be Type B HMAC per COA Item 340S or TxDOT Item 340. In accordance with TxDOT Item 340, compacted lift thicknesses should be between 1.5 and 3 inches for Type D HMAC, 2 and 4 inches for Type C HMAC, and 3 to 6 inches for Type B HMAC (ASB). The mixes should be designed for stability and compacted as outlined in COA Item 340S.4.D. Acceptance and payment criteria are outlined in COA Item 340S.12.

Crushed Limestone Base (CLB) – Base material should be composed of crushed limestone meeting the requirements of TxDOT Item 247, Type A, Grade 1-2 or COA Item 210S. The CLB should be compacted to a minimum of 100 percent of the TEX-113-E maximum dry density at -3 to +3 percent of optimum moisture content. Each lift of CLB should be thoroughly proofrolled just prior to placement of subsequent lifts and/or asphalt.

Particular attention should be paid to areas along curbs, above utility trenches, and adjacent to landscape areas, manholes, and storm drain inlets. Placement and compaction of CLB should extend at least 36 inches behind curbs.

Lime-Treated Subgrade (LTS) – If lime-treated subgrade is used, the subgrade should be treated with lime meeting the requirements of COA Item 203S. Lime treatment may be accomplished by either the dry placement or slurry placement process.

We suggest that 7% lime be used for bidding purposes with add/deduct line items for 1 to 2% lime above or below the base bid item. Prior to the application of lime to the subgrade, the optimum percentage of lime to be added should be determined based on Plasticity Index (TEX-112-E) and/or pH (ASTM D 6276) laboratory tests conducted on mixtures of the actual pavement subgrade soils with lime. Subgrade soil samples should be obtained from the pavement area at the proposed final subgrade elevation. Please note these tests require up to 5 business days to complete.

The lime should initially be blended with a mixing device such as a pulvermixer, sufficient water added, and allowed to cure for at least 48 hours. After curing, mixing should continue until the gradation requirements of COA Item 203S.5.E are met. The mixture should then be moisture adjusted and compacted to a minimum of 95 percent of the maximum dry density as determined by TEX-114-E. Placement of the lime-treated subgrade should extend at least 36 inches behind curbs.

Geogrid Reinforcement – Depending upon bid option, the geogrid should be Type II per TxDOT DMS-6240 or Tensar® TX5. The Tensar TX-5 geogrid should be placed above the moisture conditioned subgrade and below the flexible base material. The Type II geogrid should be placed within the base at a depth of 6 inches below the asphalt. Adjacent geogrid sections should be overlapped a minimum of 1-foot. If the geogrid overlap cannot be maintained during the subsequent construction process, the Contractor should use staples or clips to tie the adjacent sections together. Prior to placing base over the grid, the geogrid should be laid flat and stretched taut, to reduce excessive undulations, creases, folds, or slack in the sections. Placement of geogrid should extend at least 36 inches behind curbs.

Moisture Conditioned Subgrade (MCS) – If lime-treated subgrade is not used, the soil subgrade should be scarified to a depth of 6 inches, moisture conditioned, and recompacted to at least 95 percent of the maximum dry density as determined by TEX-114-E. Clay soils with PI≥30 should be moisture conditioned to between optimum and +4 percent of optimum. Clay soils with PI<30 should be moisture conditioned to between -3 and +3 percent of optimum. Moisture conditioning is not necessary in intact limestone subgrade areas, if any. Care should be taken such that the subgrade does not dry out or become saturated prior to pavement construction. The pavement subgrade should be

thoroughly proofrolled with a rubber-tired vehicle (fully loaded water or dump truck) immediately prior to placement of base material. Particular attention should be paid to areas along curbs, above utility trenches, and adjacent to landscape areas, manholes, and storm drain inlets. Placement and compaction of MCS should extend at least 36 inches behind curbs.

On most projects, rough site grading is accomplished relatively early in the construction phase. Fills are placed and compacted in a uniform manner. However, as construction proceeds, excavations are made into these areas; dry weather may desiccate some areas; rainfall and surface water saturates some areas; heavy traffic from concrete and other delivery vehicles disturbs the subgrade; and many surface irregularities are filled in with loose soils to temporarily improve subgrade conditions. As a result, the pavement subgrade should be carefully evaluated as the time for pavement construction approaches. This is particularly important in and around utility trench cuts, manholes, and storm drain inlets, as well as any adjacent landscaped and irrigated areas. All pavement areas should be moisture conditioned and properly compacted to the recommendations in this report immediately prior to paving. Thorough proofrolling of pavement areas should be performed no more than 24 hours prior to surface paving. Any problematic areas should be reworked and compacted at that time. Proofrolling should be re-performed if the subgrade and/or base are exposed to rainfall prior to subsequent construction activities, after replacement of the wet materials or reworking of the wet materials.

4.2.4 Sidewalks

In addition to the pavement sections presented previously, we understand that recommendations for sidewalks regarding concrete strength and expansion/contraction joint spacing are required. Sidewalks are planned to handle pedestrian and/or bicycle traffic, not vehicular loadings.

In accordance with COA Standard 432S-1, the sidewalk should consist of at least 4 inches of concrete reinforced with welded fire fabric (6”×6”×W1.4×W1.4) or #3 bars spaced at 18 inches on centers in both directions. The concrete should be designed to exhibit a minimum 28-day compressive strength of 3,600 psi. Per COA Item 432S.4, control joint and expansion joint spacing should be maximum of 5 feet and 40 feet, respectively. Other sidewalk-related items should be as outlined in COA Item 432S.

Sidewalks constructed directly above the on-site clay soils will be subject to potential shrink/swell movements of about 2 inches. It has been our experience that sidewalks are generally constructed above on-site soils without significant subgrade preparation and that the County and/or Ownership Entity simply accepts the associated movement risks and future repair/replacement costs. If the County desires to perform subgrade preparation to reduce the shrink/swell movements to on the order of about 1-inch, then at least 2 feet of low-expansive potential fill material (such as crushed limestone base or Type A Earthen Embankment Fill with PI≤15) should be placed below the sidewalks. Prior to constructing sidewalks, the subgrade should be scarified to a depth of 6 inches, moisture conditioned and compacted as per **Section**

4.1.1. We recommend a 12-inch thick clay layer (and at least 18 inches wide) of compacted soils adjacent to sidewalks, behind curbs, and between sidewalks and curbs. The on-site soils should be moisture conditioned and compacted as per **Section 4.1.1**.

4.2.5 Expansive Soils and Edge Moisture Considerations

Pavements constructed over highly expansive fat clay soils are susceptible to the cyclic shrink/swell movements of the clay soils. These cyclical movements are caused by the weather patterns varying between dry and wet seasons, which can be very drastic variations in Central Texas. Most commonly, the movements are initially observed in the form of longitudinal cracking approximately parallel to the pavement edge. These edge cracks are due to cyclic movements related to either drying or wetting along the pavement edges. To reduce or slow down the occurrence of edge cracking, the soils along the pavement edges should be sloped properly such that water does not pond directly adjacent to or near the pavement edges and the ground surface should be vegetated and lightly irrigated (enough to promote healthy growth, but not too much to completely saturate the soils). The goal is to maintain relatively consistent moisture profiles in the soils and to avoid significant variations throughout the wet/dry seasons. During construction, this watering should occur on a regular daily basis from the time of subgrade preparation through roadway acceptance.

When edge cracks do develop, the cracks should be sealed as quickly as possible and regular maintenance should be performed such that cracks do not remain open and become direct sources for moisture migration.

In addition, slopes and/or drainage swales should not be placed directly next to the pavement edges. At a minimum, the adjacent ground surface beyond the pavement edges should be gently sloped (no more than 2 percent) downhill and away from the pavement edges for at least 3 feet, prior to sloping steeper downhill for drainage swales or other reasons.

4.2.6 Pavement Maintenance Considerations

Long-term pavement performance will be dependent upon several factors, including maintaining subgrade moisture levels and providing for preventive maintenance. The following recommendations should be considered at a minimum:

- Adjacent site grading at a minimum 2% grade away from the pavements;
- A minimum ¼ inch per foot slope on the pavement surface to promote proper surface drainage;
- Install joint sealant and seal cracks immediately; and
- Placing compacted, low permeability clay backfill against the pavement edges, covering the more pervious flexible base material.

Preventive maintenance should be planned and provided for through an on-going pavement management program. These activities are intended to slow the rate of pavement deterioration

and to preserve the pavement investment. Preventive maintenance consists of both localized maintenance (e.g. crack and joint sealing and patching) and global maintenance (overlays). This is usually the first priority when implementing a planned pavement maintenance program and provides the highest return on investment for pavements.

4.2.7 Connection between Existing and New Pavements

To avoid having a vertical joint between the existing and new pavements, Terracon recommends that the existing asphalt and base be carefully excavated to a depth equivalent to 6 inches below the bottom of the new Type C asphalt layer. This excavation should extend 12 inches laterally into the existing pavement section. If the adjacent existing asphalt is cracked or distressed, this excavation should extend further to 12 inches beyond distressed asphalt portions.

Once the existing asphalt/base is excavated and the adjacent new pavement section has been constructed to the same elevation, the entirety of the exposed base material should be proofrolled. Once the exposed base passes the proofrolling inspections, the final 6 inches of base material should be placed over new and existing pavement areas, compacted, tested for moisture/density, and proofrolled. Once the final lift of base material passes proofroll, then asphalt placement and compaction may begin. The above method also applies if one of the full-depth asphalt sections is selected; except the new “base” would be the asphaltic black base (Type B HMAC).

4.3 Lateral Earth Pressures

The following earth pressures may be used for site retaining wall design, including those associated with box culverts and tree wells. Presented below are at-rest, active, and passive earth pressure coefficients for various backfill types adjacent to below-grade walls or site retaining walls. At-rest earth pressures are recommended in cases where little wall yield is expected (such as structural below-grade walls). Active earth pressures may be used in cases where the walls can exhibit a certain degree of horizontal movement (such as cantilevered retaining walls). The recommendations in this section apply to those walls which are installed in open cut or embankment fill areas such that the backfill extends out from the base of the wall at an angle of at least 45 degrees from vertical for the entire height and length of the wall.

Backfill Type	Estimated Total Unit Weight (pcf)	Lateral Earth Pressure Coefficients[1]		
		At Rest (K_O)	Active (K_A)	Passive (K_P)
Crushed Limestone (TxDOT Item 247, Type A, Grade 1-2)	140	0.45	0.3	3.5
Clean Gravel (TxDOT Item 423, Type DS)	120	0.45	0.3	3.5
On-site Soils	125	0.58	0.41	2.5

1. Coefficients represent ultimate values. Appropriate safety factors should be applied.

The above values do not include a hydrostatic or ground-level surcharge component. To prevent hydrostatic pressure build-up, retaining walls and wingwalls should incorporate functional drainage (via free-draining aggregate or manufactured drainage mats) within the backfill zone. In addition, backflow prevention should be provided for any weep holes where there is a potential for the weep holes to be inundated during a flood, such as might occur along Retaining Walls N and S.

We understand that Retaining Walls N and S are designed for TxDOT Type B loading, which includes surcharge loads from slopes of up to 4(H):1(V) behind the retaining wall. The effect of surcharge loads, where applicable, should be incorporated into wall pressure diagrams by adding a uniform horizontal pressure component equal to the applicable lateral earth pressure coefficient times the surcharge load, applied to the full height of the wall.

The compactive effort should be controlled during backfill operations adjacent to walls. Overcompaction can produce lateral earth pressures in excess of at-rest magnitudes. Compaction levels adjacent to walls should be maintained between 95 and 100 percent of TEX-114-E maximum dry density.

For retaining walls bearing at least 2 feet below existing grades on on-site Stratum I fat clay soils, we recommend a coefficient of sliding resistance of 0.25 (maximum allowable sliding resistance of 500 psf) and a maximum footing bearing capacity of 2,000 psf. For retaining walls bearing at least 2 feet below existing grades on all other on-site Stratum I soils or Type C Earthen Embankment Fill (PI≤30), we recommend a coefficient of sliding resistance of 0.35 (maximum allowable sliding resistance of 500 psf) and a maximum footing bearing capacity of 2,500 psf. For retaining walls bearing at least 2 feet below existing grades on crushed limestone base, we recommend a coefficient of sliding resistance of 0.4 (maximum allowable sliding resistance of 500 psf) and a maximum footing bearing capacity of 3,000 psf. All retaining walls should be checked against failure due to overturning, sliding, and overall slope stability. Such an analysis can only be performed once the dimensions of the wall and cut/fill scenarios are known.

We recommend that a buffer area of at least 5 feet for all pavement areas be placed between retaining walls (with a minimum height of 4 feet or more), and the adjacent construction. These recommended buffer zones are to reduce the potential of distress from any long-term (“creep”) movements of the wall and backfill. Pedestrian sidewalks may be exempted from the above criteria; however, some distress could still be observed in the sidewalks due to movements of the retaining walls and backfill.

As shown in Exhibit C-4 (modified slightly from TxDOT Standard Sheet RW 2) in Appendix C, a wall drain (consisting of freely-draining aggregate or manufactured drainage mat, along with outlet piping) is recommended for collection and removal of surface water percolation behind the walls. Proper control of surface water percolation will help to prevent buildup of higher wall pressures.

In unpaved areas, the final 12 inches of backfill should preferably consist of clayey soils to help to reduce percolation of surface water into the backfill.

4.4 Embankment Fill Slopes

The following embankment construction recommendations apply to those constructed in association with pavement and/or general site improvements. We recommend that fill embankments (and/or berms) be constructed such that the final embankment sides are sloped at 3(H):1(V), or flatter. Typically, mower and maintenance equipment access is easier at 4(H):1(V) or flatter. For embankments constructed at this inclination or flatter, fill placement for the embankments can proceed as outlined in **Section 4.1**. Please note that the compaction requirements indicated in **Section 4.1.1** apply to all portions of the embankment slopes.

Embankments which are constructed on natural subgrade sloping steeper than 5(H):1(V) should be “keyed” into the subgrade at the toe of the embankment. The keyed-in toe should consist of a 12-foot wide section which is excavated no more than 2 feet into the subgrade such that a horizontal working surface is attained for compaction of the first embankment lift. Successive lifts should remain horizontal and should not tend to follow the slope of the natural subgrade.

The crest of embankment slopes should not be placed directly next to the pavement edges. At a minimum, the adjacent ground surface beyond the pavement edges should be gently sloped (no more than 2 percent) downhill and away from the pavement edges for at least 3 feet, prior to sloping steeper downhill for the embankments.

The embankment slopes should be properly protected from erosion (the use of erosion control fabrics and/or vegetation is common). In addition to initial erosion control measures, the embankments should be periodically checked for erosion (particularly after heavy rainfall events) and should have maintenance performed on areas exhibiting erosion.

The edges of fill embankments are often undercompacted in the field due to loose material being pushed off the edges as the embankment lifts are compacted. To reduce the possibility of this impacting the stability of the embankment fill, the embankments should be overbuilt and compacted to the specifications given above. Then the embankment fill should be cut back to the slopes recommended above.

4.5 Below-Grade Construction for Utility Lines

Presented below are comments addressing below-grade construction considerations for the proposed utility lines.

For construction of the utility lines, the excavations may be performed as open cuts, if sufficient space allows. Due to the primarily high plasticity of the on-site soils, we recommend sideslopes

no steeper than 1½(H):1(V) for temporary excavation in soil subgrade areas and ½(H):1(V) for temporary excavations in Stratum II rock. If groundwater seepage is observed in the soils during construction, we recommed sideslopes no steeper than 2(H):1(V) in the soils. In our opinion, temporary sideslopes at the inclinations discussed above should be stable against a large-scale slide, although the potential for sloughing of loose soil/rock zones exists. The areas generally susceptible to sloughing are soil layers/zones and rock zones that are severely weathered, highly fractured, or intermixed with significant amounts of soil. Excavation methods which fracture the rock significantly could also result in decreased slope stability.

Backfilling of the excavations around the utility lines should be completed with properly compacted on-site soils and bedding material, as outlined in **Section 4.1**. As an alternative, flowable backfill may be used as per TxDOT Item 401or COA Item 402S.

A buffer area at least 10 feet wide should be maintained adjacent to streets, utilities, or other facilities to accommodate localized sloughing. Subgrade loading from material spoil piles, traffic, or equipment loading closer than 6 feet from the crest of the slope should be avoided. In soil subgrade areas, the exposed slopes should be covered with plastic or other suitable protection to minimize erosion and drying out of surface soils. Any utilities or other critical facilities should be locally shored such that any sloughing of slopes will not undermine them.

If it is not possible to slope (or bench) portions of the excavations due to limited space restrictions, the excavation should be properly shored or braced. If temporary excavation retention systems are planned, the retention system should be designed by a registered Professional Engineer specialized in such design and should also comply with the applicable OSHA requirements.

In regards to worker safety, Occupational Safety and Health Administration (OSHA) Safety and Health Standards require the protection of workers from excavation instability in trench and “non-trench” situations. The OSHA guidelines and directives should be followed by the Contractor during construction to insure a safe working environment.

4.6 Excavation Into Stratum II Limestone

Excavation operations at the site for the proposed utility lines will require cuts of up to approximately 6.7 feet, which will penetrate into and possibly through the Stratum I soils and into the Stratum II Edwards Formation limestone, which was encountered in the borings at depths of 3½ to 8½ feet below the existing pavement surface. The data obtained during our field and laboratory programs, indicates that the rock will require sawcutting, jackhammering, hoe-ramming, or similar techniques to excavate. This rock formation is generally hard and considered as “non-rippable” by most local earthwork contractors. The overlying soils do contain limestone fragments and cobbles/boulders and could present excavation challenges as well. The weathering profile of bedrock is hard to predict and it is generally in an undulating pattern, not flat

or uniformly sloped. Thus, the Contractor should be prepared to excavate surficial limestone anywhere on this site.

Our comments on excavation are based on our experience with the rock formation and the data obtained during our field exploration. Rock excavation depends on not only the rock hardness, weathering, and fracture frequency, but also the contractor's equipment, capabilities, and experience. Therefore, it should be the contractor's responsibility to determine the most effective methods for excavation. The above comments are intended for informational purposes for the design team only and may be used for planning purposes.

4.7 Drainage/Groundwater Control

Surface drainage must be developed so that ponding of surface runoff near the excavations does not occur. Zones of groundwater seepage may be encountered within the trench sidewalls during excavation operations for the proposed utility lines. Although groundwater control is the responsibility of the contractor, we anticipate that the use of sumps and sump pumps would be an effective means of dewatering the excavation should this occur. Provisions should be included in the plans and specifications to control groundwater seepage during construction should it occur.

4.8 Drainage Swale A Design Considerations

Based on the Drainage Swale A plan sheets provided to us by Bury, the following drainage improvements are planned between Swale A STA's 11+88 and 23+00 (approximate roadway STA's 13+00 and 23+50):

- A new 6' x 6' area inlet will be constructed at Swale A STA 11+88. The inlet will have an invert elevation of 863.76 feet, which will require cuts of approximately 6.7 feet.
- The area inlet will divert water into a new 36" reinforced concrete pipe (RCP), which will carry water approximately 204 feet downstream to Swale A STA 13+97. The new storm drain line is denoted as SD Line D. Construction of the new pipe will require cuts of about 3.9 to 6.4 feet below existing grade.
- The existing 24" RCP culvert at Swale A STA 16+00 is planned to be demolished and replaced with a new precast 5' x 3' single-cell box culvert (SBC), denoted as Culvert C. The base of the new culvert will be positioned approximately 1.3 to 1.4 feet below the existing ground at the centerline of Swale A.
- The existing 10' x 4' SBC at Swale A STA 19+78 is planned to be demolished and replaced with a new precast 12' x 4' SBC, denoted as Culvert B. The base of the new culvert will be positioned approximately 1.2 to 1.3 feet below the existing ground at the centerline of Swale A. The existing headwall and wingwalls on the west side of the culvert will be removed and replaced with new structures.
- The portion of Swale A between Swale A STA's 20+08 and 21+26, which links Culvert B to the existing downstream multi-cell box culvert (MBC) Culvert A, is planned to be

improved as shown in the Figure 1. The planned improvements include the construction of retaining walls on both the north and south sides of the drainage channel, Retaining Wall N and Retaining Wall S, respectively. Between the two retaining walls, the base of the drainage channel will be shielded from erosion with 6 inches of reinforced concrete riprap. The base of the drainage channel is planned to be constructed with finished elevations ranging from 856.5 to 855.3, which will require cuts of approximately 1 to 2½ feet below the existing ground surface.

- The existing MBC Culvert A will be extended to the south between Swale A STA's 21+16 and 22+30 to accommodate the proposed roadway expansion. The additional MBC will be cast-in-place. The existing headwall and wingwalls will be removed and replaced with new structures.

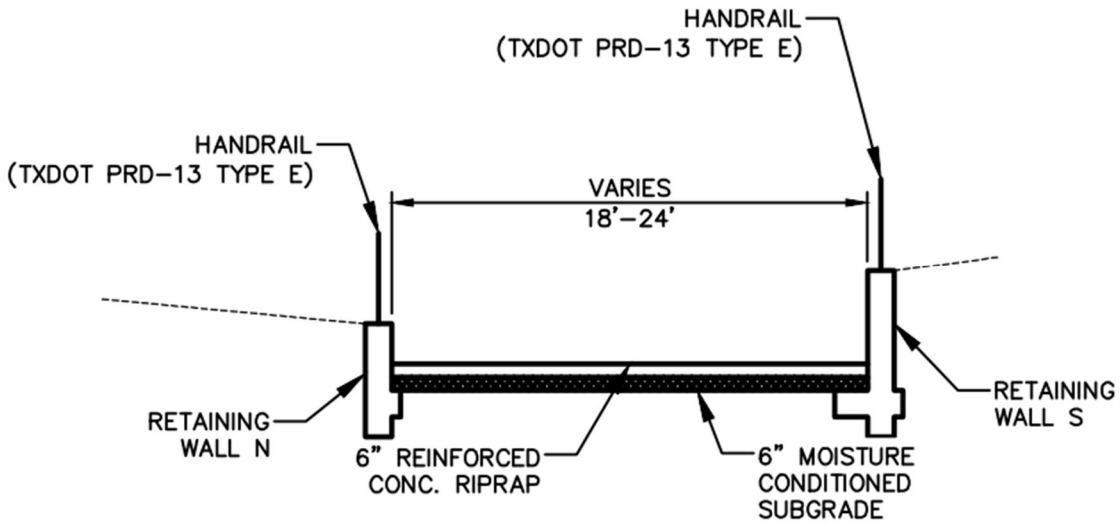


Figure 1. Cross-Section of Swale A Improvements Between STA's 20+08 and 21+26 (Detail by Bury).

Based on the information in borings B-2 through B-4, which are the closest borings to this area, we anticipate that the soils along the drainage channel will consist of variable Stratum I fill soils and possibly Stratum II limestone.

4.8.1 Box Culvert Subgrade Preparation

The box culvert construction areas should be stripped of existing rock rip rap, organics, existing utilities, concrete, soft/wet soils, and other unsuitable material. The upper 2 feet of the resulting subgrade soils should then be stripped, moisture adjusted and recompacted as described in **Section 4.1.1** to provide uniform support for the culvert. If limestone is encountered within the 2-foot overexcavation, excavation may be ceased as it is not necessary to excavate further into the limestone, provided the following requirement is satisfied.

If limestone is present within 6 inches of the final grade beneath the culvert, the limestone should be excavated such that at minimum of 6 inches of properly compacted select fill can be placed between the limestone and culvert. At a minimum, the upper 2 inches of fill should consist of

TxDOT Item 556, Type C Bedding material. As mentioned in **Section 4.6**, the Contractor should be prepared to excavate surficial limestone to achieve the design subgrade elevations if it is encountered.

4.8.2 Drainage Channel Subgrade Preparation

The drainage channel construction area should be stripped of existing rock rip rap, organics, existing utilities, concrete, soft/wet soils, and other unsuitable material. Roots of trees to be removed within construction areas should be grubbed to full depths, including the dry soil around the roots. The upper 6 inches of the resulting subgrade soils should then be stripped, moisture adjusted and recompacted as described in **Section 4.1.1** to provide uniform support for the drainage channel. As mentioned in **Section 4.6**, the Contractor should be prepared to excavate surficial limestone to achieve the design subgrade elevations if it is encountered.

4.9 Comments on Excavation and/or Trench Safety

The following subsections present comments pertaining to the subsurface conditions encountered in the test borings drilled at the site and the effects these conditions may have upon excavation and/or trench safety. Our comments are based on the data obtained from the field and laboratory test programs, geologic conditions, and our experience with similar projects. We are providing general comments for the most common methods of excavation and/or trench safety, including sloping, benching, shoring, bracing, etc. The Owner, design engineer, and/or Contractor should decide which method is the most feasible for this site depending on space limitations, construction budget, construction schedule, etc.

4.9.1 General

OSHA Safety and Health Standards (29 CFR Part 1926) require that all trenches in excess of 5 feet deep be shored or appropriately sloped unless the sidewalls are comprised of “stable” rock. State of Texas legislation requires detailed plans and specifications for retention systems that meet OSHA standards for a safe construction environment during utilities installation. The following sections provide general information to aid in designing an excavation retention system for this project based on the subsurface conditions observed at our test boring locations. These comments are intended for use in conjunction with OSHA safety regulations and not in lieu of those regulations. Prior to utility line construction, an excavation/trench safety plan, which is designed by a registered Professional Engineer, should be completed.

4.9.2 Construction

Currently available and practiced methods for achieving slope and/or sidewall stability includes sloping, benching, combinations of sloping and benching, and installation of shoring systems (hydraulic, timber, etc.). Trench shields may also be considered for use. However, trench shields only provide protection to workers; they are not means for providing slope or sidewall stability.

4.9.3 Sloping and Benching

If right-of-way is available, sloping, benching, or a combination thereof could be considered. The slope angle and/or vertical height of the bench section will be dependent on the subsurface conditions. In general, temporary excavations may be cut at the slopes indicated previously in **Section 4.5**. We recommend that all sloping/benching be performed as directed by OSHA in 29 CFR, Part 1926.

During excavation, slopes or benches should be observed for possible signs of failure such as bulging of the vertical face of the bench, tension cracks at the slope crest and/or raveling of material down the slope. If precariously positioned boulders or rock fragments are encountered, they should be removed. Surcharge loading from spoil piles, traffic, or equipment loading closer than 6 feet from the crest of the slope, which might alter the stability of the slope, should be avoided. If such conditions are observed, workmen should not be permitted in the excavation until the conditions noted are corrected by the contractor. If such conditions cannot be avoided, further flattening of the slope may be required. Flattening of the slope may also be necessary if excess amounts of groundwater influx are observed.

Surface water runoff which flows down the slopes or benches and ponds at the toe or crest of an excavation may be detrimental to stability. The excavation slopes should be thoroughly evaluated following a rainfall event and prior to workmen entering the excavation.

4.9.4 Shoring

Where open cuts are not possible, shoring may be used for excavation safety. Earth pressures for design of shoring should be based on a “worst case” condition from an earth pressure standpoint. The appropriate earth pressures to be used should be evaluated by the excavation safety system designer. Each strut or brace should be proportioned as if it would be subjected to the maximum lateral load.

Excavation safety systems may be subjected to surcharge loads in the form of construction equipment and/or spoil piles. Surcharge loads from soil surcharge should be considered when calculating earth pressures for the shoring systems. Equipment such as backhoes, front-end loaders, etc., should not operate within a distance of 6 feet from the excavation sidewall (and no vibrating equipment should be used) while workers are in the excavation. The excavation safety system designer should review the surcharge loads imposed on the excavation safety system.

4.9.5 Trench Shields

If sloping, benching, or shoring is not selected, trench shields may be considered to protect the workers from slope instability. As for shoring, the design of the trench shields should be based on a “worst case” earth pressure standpoint, with the appropriate earth pressures properly evaluated by the excavation safety system designer. We should note that trench shields only serve as a means for worker protection; they are not a means of excavation retention. Potential effects of sidewall caving and corresponding damage to adjacent property and personnel should be taken

into account when considering the use of trench shields. As stated above for shoring, hydrostatic pressures and effects of spoil, equipment, and other surcharge loading should be considered.

4.9.6 Alternate Sidewall Protection Methods

Other equivalent methods of slope protection or shoring may be considered for this project. However, any excavation safety system to be used should fully comply with OSHA regulations.

4.9.7 Inspection of Excavation Safety System

Inspections of the excavations should be performed by a competent person to: (1) confirm that actual conditions are as anticipated from analysis of the borings; (2) examine for the presence of faults or other geologic features that might be an indication of sidewall instability; (3) observe the presence of spoil piles or equipment which could cause surcharge loading; and (4) help ensure that the excavation safety system design is properly interpreted and incorporated into construction. The construction sequence should be planned so that an adequate inspection can be performed prior to personnel entering the excavation.

In addition, OSHA regulations require that inspections be made daily by a competent person for situations which could result in a possible cave-in, indications of failure of the protective systems, hazardous atmospheres, or other hazardous conditions. Workmen should not be permitted in the excavation until these conditions have been reviewed by a competent person on a daily basis. A competent person is defined within the OSHA Safety and Health Standards and Interpretations Part 1926 of 29 CFR, amended 2989, Subpart P - Excavations, as one who is capable of identifying existing and predictable hazards in the surrounding or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

5.0 GENERAL COMMENTS

Terracon should be retained to review the final design plans and specifications so comments can be made regarding interpretation and implementation of our geotechnical recommendations in the design and specifications. Terracon also should be retained to provide testing and observation during excavation, grading, pavement installation, and other construction phases of the project.

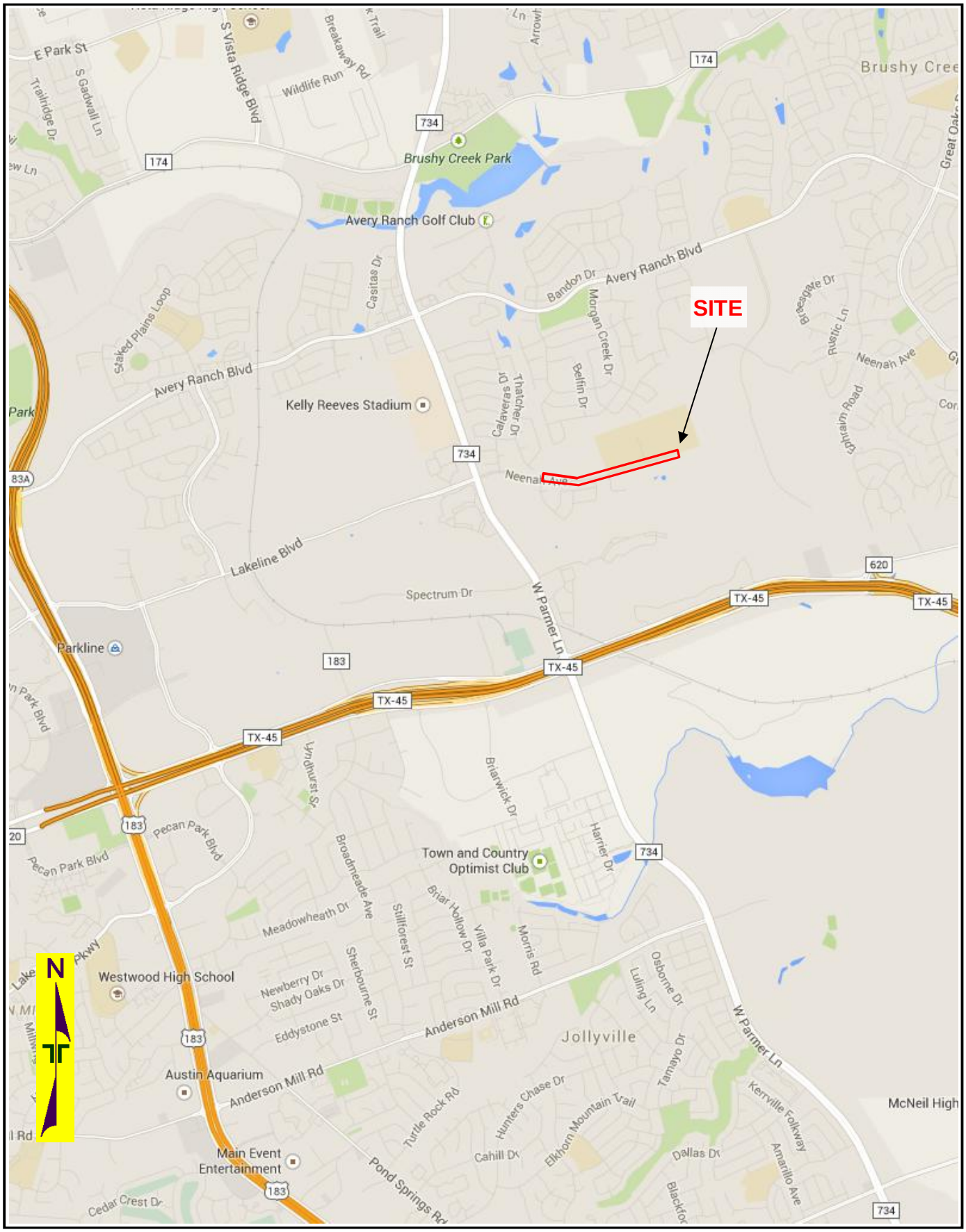
The analysis and recommendations presented in this report are based upon the data obtained from the borings performed at the indicated locations and from other information discussed in this report. This report does not reflect variations that may occur between borings, across the site, or due to the modifying effects of weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, we should be immediately notified so that further evaluation and supplemental recommendations can be provided.

The scope of services for this project does not include, either specifically or by implication, any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials, or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

For any excavation construction activities at this site, all Occupational Safety and Health Administration (OSHA) guidelines and directives should be followed by the Contractor during construction to provide a safe working environment. In regards to worker safety, OSHA Safety and Health Standards require the protection of workers from excavation instability in trench situations.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either express or implied, are intended or made. Site safety, excavation support, and dewatering requirements are the responsibility of others. In the event that changes in the nature, design, or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless Terracon reviews the changes and either verifies or modifies the conclusions of this report in writing.

APPENDIX A
FIELD EXPLORATION



Project Manager: ADK	Project No. 96145065	Terracon Consulting Engineers & Scientists 5307 Industrial Oaks Blvd, Suite 160 Austin, Texas 78735 PH. (512) 442-1122 FAX. (512) 442-1181	SITE VICINITY MAP NEENAH AVENUE WIDENING FROM OLIVE HILL ROAD TO END OF EXISTING NEENAH AVENUE AUSTIN, TEXAS	EXHIBIT A-1
Drawn By: ADK	Scale: N.T.S.			
Checked By: ADK	File Name: 96145065			
Approved By: ADK	Date: 4/10/2015			

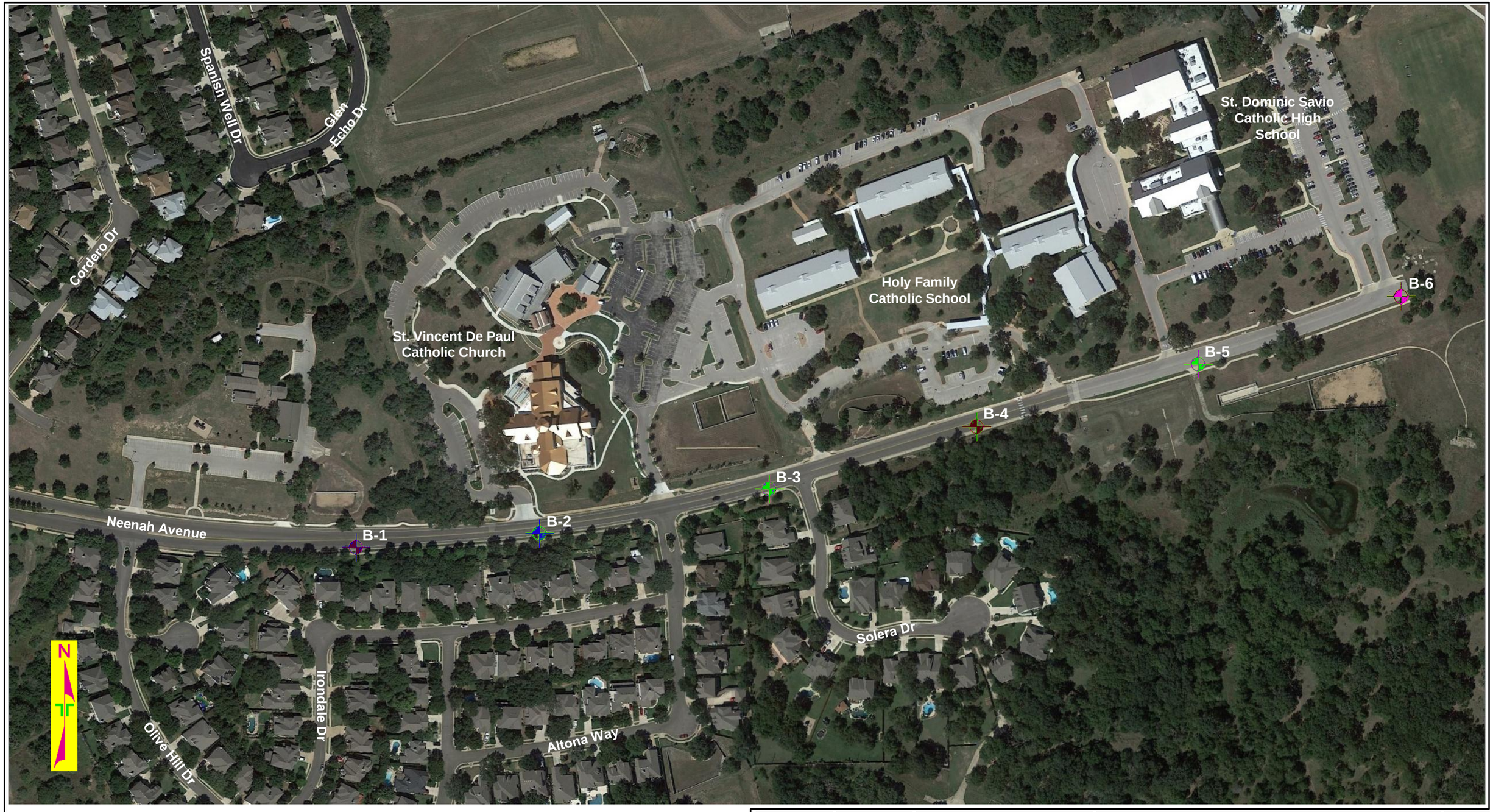


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. SCALE IS APPROXIMATE. THE GOOGLE EARTH PRO AERIAL IMAGE SHOWS THE SITE CONDITIONS AS OF OCTOBER 2, 2014. SITE CONDITIONS MAY HAVE CHANGED SINCE THAT TIME.

Project Manager:	ADK
Drawn by:	ADK
Checked by:	ADK
Approved by:	ADK

Project No.	96155068
Scale:	AS SHOWN
File Name:	96155068
Date:	4/10/2015

Terracon
Consulting Engineers & Scientists
5307 Industrial Oaks Blvd, Suite 160 Austin, Texas 78735
PH. (512) 442-1122 FAX. (512) 442-1181

BORING LOCATION AERIAL

NEENAH AVENUE WIDENING
OLIVE HILL ROAD TO END OF EXISTING NEENAH AVENUE
AUSTIN, TEXAS

Exhibit A-2

Field Exploration Description

Subsurface conditions were evaluated by drilling six borings to depths of about 10 feet within the existing roadway. The borings were drilled with truck-mounted rotary drilling equipment at the approximate locations shown on Exhibit A-2 of Appendix A. Boring depths were measured from the existing ground surface at the time of our field activities. The boring coordinates were located in the field through the use of a Garmin handheld GPS unit. The coordinates are presented on the top of the boring logs.

The boring logs, which include the subsurface descriptions, types of sampling used, and additional field data for this study, are presented on the boring logs in Appendix A. Criteria defining terms, abbreviations and descriptions used on the boring logs are presented in Appendix C.

When possible, cohesive soil samples were recovered using thin-walled, open-tube samplers (Shelby tubes). A pocket penetrometer test was performed on each sample of cohesive soil in the field to serve as a general measure of consistency.

Soils for which good quality tube samples could not be obtained and weathered rock were sampled by means of the Standard Penetration Test (SPT). This test consists of measuring the number of blows required for a 140-pound hammer free falling 30 inches to drive a standard split-spoon sampler 12 inches into the subsurface material after being seated 6 inches. This blow count or SPT “N” value is used to estimate the engineering properties of the stratum. A CME automatic SPT hammer was used to advance the split-barrel sampler in the borings performed on this site. A greater efficiency is typically achieved with the automatic hammer compared to the conventional safety hammer operated with a cathead and rope. Published correlations between the SPT values and soil properties are based on the lower efficiency cathead and rope method. This higher efficiency affects the standard penetration resistance blow count (N) value by increasing the penetration per hammer blow over what would be obtained using the cathead and rope method. The effect of the automatic hammer's efficiency has been considered in the interpretation and analysis of the subsurface information for this report.

Samples were removed from the samplers in the field, visually classified, and appropriately sealed in sample containers to preserve the in-situ moisture contents. Samples were then placed in core boxes for transportation to our laboratory in Austin, Texas.

BORING LOG NO. B-1

PROJECT: Neenah Avenue Widening

CLIENT: Bury, Inc.
Austin, Texas

SITE: Olive Hill Rd to End of Existing Neenah Ave
Austin, Texas

LOCATION See Exhibit A-2

Latitude: 30.487678° Longitude: -97.765063°

DEPTH	GRAPHIC LOG	DESCRIPTION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.4		**PAVEMENT**, ~5" asphalt								
		FILL - SILTY SAND WITH GRAVEL (SM), light gray to light brownish-gray to pale brown, very dense, flexible base material				50/5"	8		19-16-3	33
3.0										
3.5		**FILL - FAT CLAY WITH SAND (CH)**, dark brown, very stiff				3.0 tsf (HP)	19		57-21-36	
		SILTY CLAY WITH GRAVEL (CL-ML), pale brown to light yellowish-brown to tan, very stiff to hard, possible fill in the upper portion, with limestone fragments and seams in the lower portion	5			6				
6.0										
		LIMESTONE (EDWARDS FORMATION), light gray to light brownish-gray				50/3"	4			
						50/4"	3			
10.0			10							
		Boring Terminated at 10 Feet								

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
Dry Augered 0 to 10 feet

Abandonment Method:
Backfilled with Auger Cuttings and/or Bentonite
Surface Capped with Asphalt

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
5307 Industrial Oaks Blvd., Suite 160
Austin, Texas

Boring Started: 3/30/2015 Boring Completed: 3/30/2015

Drill Rig: CME 55 Driller: Austin Geo-Logic

Project No.: 96155065 Exhibit: A-4

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 96155065 NEENAH AVENUE WIDENING BORING LOGS.GPJ

BORING LOG NO. B-2

PROJECT: Neenah Avenue Widening

CLIENT: Bury, Inc.
Austin, Texas

SITE: Olive Hill Rd to End of Existing Neenah Ave
Austin, Texas

LOCATION See Exhibit A-2

Latitude: 30.487765° Longitude: -97.763702°

DEPTH	GRAPHIC LOG	DESCRIPTION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.4		**PAVEMENT**, ~4¼" asphalt								
		FILL - SILTY SAND WITH GRAVEL (SM), light gray to light brownish-gray to pale brown, very dense, flexible base material								
3.0										
3.5		**FILL - CLAYEY SAND WITH GRAVEL (SC)**, dark brown to grayish-brown to pale brown, very dense				7-50/4"	6			22
		LIMESTONE (EDWARDS FORMATION), light gray to light brownish-gray, with reddish-brown clay seams, cherty	5			50/3"	4			
						50/2"	4			
10.0			10							
		Boring Terminated at 10 Feet								

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
Dry Augered 0 to 10 feet

Abandonment Method:
Backfilled with Auger Cuttings and/or Bentonite
Surface Capped with Asphalt

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
5307 Industrial Oaks Blvd., Suite 160
Austin, Texas

Boring Started: 3/30/2015 Boring Completed: 3/30/2015

Drill Rig: CME 55 Driller: Austin Geo-Logic

Project No.: 96155065 Exhibit: A-5

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 96155065 NEENAH AVENUE WIDENING BORING LOGS.GPJ

BORING LOG NO. B-3

PROJECT: Neenah Avenue Widening

CLIENT: Bury, Inc.
Austin, Texas

SITE: Olive Hill Rd to End of Existing Neenah Ave
Austin, Texas

LOCATION See Exhibit A-2

Latitude: 30.488046° Longitude: -97.762047°

DEPTH	Description	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.5	**PAVEMENT**, ~6" asphalt								
2.0	**FILL - SILTY SAND WITH GRAVEL (SM)**, tan to light brown, very dense, flexible base material				34-37-14 N=51	6		18-16-2	29
3.5	**FILL - FAT CLAY (CH)**, trace gravel, dark brown, stiff to very stiff				5-5-10 N=15	25		85-27-58	
10.0	**CLAYEY GRAVEL WITH SAND (GC)**, reddish-brown to light gray to light brownish-gray, very dense, with cobbles, possible fill	5			20-24-26 N=50	16			
					27-41-50/5"	13			34
					50/5"	6			
	Boring Terminated at 10 Feet	10							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
Dry Augered 0 to 10 feet

Abandonment Method:
Backfilled with Auger Cuttings and/or Bentonite
Surface Capped with Asphalt

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
5307 Industrial Oaks Blvd., Suite 160
Austin, Texas

Boring Started: 3/31/2015	Boring Completed: 3/31/2015
Drill Rig: CME 45	Driller: Austin Geo-Logic
Project No.: 96155065	Exhibit: A-6

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 96155065 NEENAH AVENUE WIDENING BORING LOGS.GPJ

BORING LOG NO. B-4

PROJECT: Neenah Avenue Widening

CLIENT: Bury, Inc.
Austin, Texas

SITE: Olive Hill Rd to End of Existing Neenah Ave
Austin, Texas

LOCATION See Exhibit A-2

Latitude: 30.488482° Longitude: -97.760548°

DEPTH	GRAPHIC LOG	DESCRIPTION	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.4		**PAVEMENT**, ~4½" asphalt					
2.0		**FILL - SILTY SAND WITH GRAVEL (SM)**, tan to light brown, medium dense, flexible base material	25-17-5 N=22	9			
3.5		**FILL - FAT CLAY WITH GRAVEL (CH)**, dark brown, very stiff	5-7-11 N=18	22		70-20-50	
6.5		**FAT CLAY (CH)**, trace sand, dark brown, stiff, possible fill	3-4-8 N=12	27		53-21-32	95
8.5		**CLAYEY SAND WITH GRAVEL (SC)**, reddish-brown to brown to light gray, very dense, possible fill	8-12-50/2"	15			47
10.0		**LIMESTONE (EDWARDS FORMATION)**, gray	50/2"	6			
		Boring Terminated at 10 Feet					

DEPTH (Ft.): 5, 10

WATER LEVEL OBSERVATIONS

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
Dry Augered 0 to 10 feet

Abandonment Method:
Backfilled with Auger Cuttings and/or Bentonite
Surface Capped with Asphalt

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
5307 Industrial Oaks Blvd., Suite 160
Austin, Texas

Boring Started: 3/31/2015 Boring Completed: 3/31/2015

Drill Rig: CME 45 Driller: Austin Geo-Logic

Project No.: 96155065 Exhibit: A-7

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 96155065 NEENAH AVENUE WIDENING BORING LOGS.GPJ

BORING LOG NO. B-5

PROJECT: Neenah Avenue Widening

CLIENT: Bury, Inc.
Austin, Texas

SITE: Olive Hill Rd to End of Existing Neenah Ave
Austin, Texas

LOCATION See Exhibit A-2

Latitude: 30.488822° Longitude: -97.758912°

DEPTH	GRAPHIC LOG		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.4		**PAVEMENT**, ~4½" asphalt								
1.1		**FILL - SILTY SAND WITH GRAVEL (SM)**, light gray to light grayish-brown, medium dense, flexible base material				19-22-10 N=32	13		103-27-76	43
2.0		**FILL**, mottled light gray to light grayish-brown to dark brown to reddish-brown, dense, varies from fat clay (CH) to clayey gravel with sand (GC)				6-12-18 N=30	25		100-25-75	62
4.0		**FILL - GRAVELLY FAT CLAY WITH SAND (CH)**, reddish-brown with light gray gravel, very stiff to hard	5			19-27-32 N=59	19			45
						15-23-38 N=61	10		71-21-50	30
						50/3½"	10			
10.0		**FILL - CLAYEY GRAVEL WITH SAND (GC)**, reddish-brown with light gray gravel, very dense, with limestone fragments	10							
		Boring Terminated at 10 Feet								

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
Dry Augered 0 to 10 feet

Abandonment Method:
Backfilled with Auger Cuttings and/or Bentonite
Surface Capped with Asphalt

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
5307 Industrial Oaks Blvd., Suite 160
Austin, Texas

Boring Started: 3/31/2015 Boring Completed: 3/31/2015

Drill Rig: CME 45 Driller: Austin Geo-Logic

Project No.: 96155065 Exhibit: A-8

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 96155065 NEENAH AVENUE WIDENING BORING LOGS.GPJ

BORING LOG NO. B-6

PROJECT: Neenah Avenue Widening

CLIENT: Bury, Inc.
Austin, Texas

SITE: Olive Hill Rd to End of Existing Neenah Ave
Austin, Texas

LOCATION See Exhibit A-2

Latitude: 30.489277° Longitude: -97.757439°

GRAPHIC LOG	DEPTH	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
	0.3 **PAVEMENT**, ~4" asphalt								
	FILL - CLAYEY GRAVEL WITH SAND (GC), gray to grayish-brown, medium dense, flexible base material				15-5-5 N=10	21		99-30-69	64
	1.7 **FILL - GRAVELLY FAT CLAY WITH SAND (CH)**, dark brown with gray to grayish-brown gravel, stiff to very stiff				3-6-35 N=41	33			
	3.0 **FILL - CLAYEY GRAVEL WITH SAND (GC)**, reddish-brown with light gray to pale brown gravel, dense to very dense, with limestone fragments	5			9-18-13 N=31	5		86-25-61	18
					34-50/4"	19			
					50/3"	3			
	10.0 ***Boring Terminated at 10 Feet***	10							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
Dry Augered 0 to 10 feet

Abandonment Method:
Backfilled with Auger Cuttings and/or Bentonite
Surface Capped with Asphalt

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
5307 Industrial Oaks Blvd., Suite 160
Austin, Texas

Boring Started: 4/1/2015 Boring Completed: 4/1/2015

Drill Rig: CME 45 Driller: Austin Geo-Logic

Project No.: 96155065 Exhibit: A-9

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 96155065 NEENAH AVENUE WIDENING BORING LOGS.GPJ

APPENDIX B

LABORATORY TESTING

Laboratory Testing

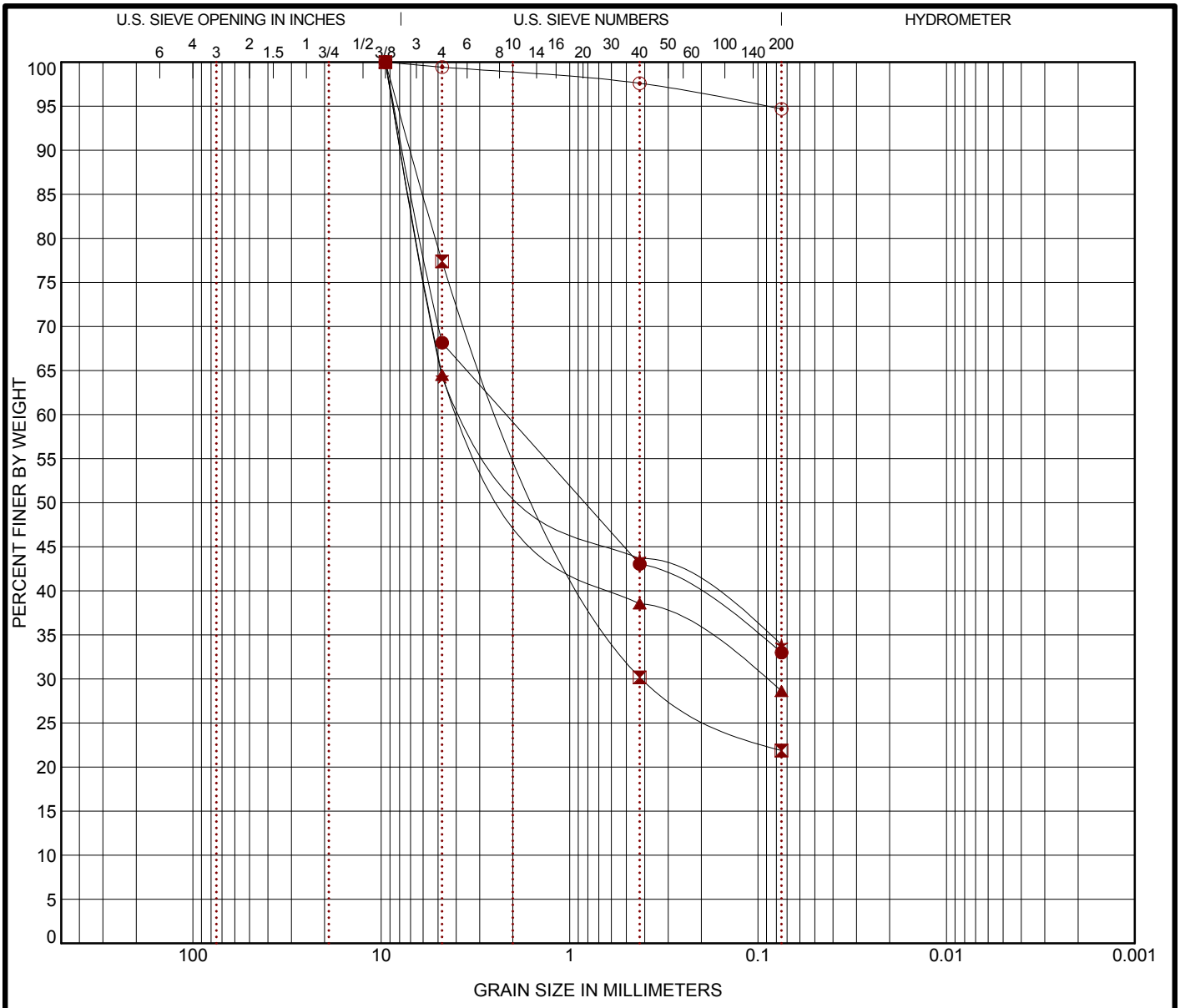
Samples obtained during the field program were visually classified in the laboratory by a geotechnical engineer. A testing program was conducted on selected samples, as directed by the geotechnical engineer, to aid in classification and evaluation of engineering properties required for analyses.

Results of the laboratory tests are presented on the boring logs located in Appendix A and/or are discussed in **Section 3.0 – Subsurface Conditions** of the report. Laboratory test results were used to classify the soils encountered as generally outlined by the Unified Soil Classification System.

Samples not tested in the laboratory will be stored for a period of 30 days subsequent to submittal of this report and will be discarded after this period, unless we are notified otherwise.

GRAIN SIZE DISTRIBUTION

ASTM D422



Boring ID	Depth	USCS Classification	LL	PL	PI	Cc	Cu
B-1	0.5 - 0.9167	SILTY SAND with GRAVEL(SM)	19	16	3		
B-2	3 - 3.833						
B-3	0.5 - 2	SILTY SAND with GRAVEL(SM)	18	16	2		
B-3	6 - 7.417						
B-4	4 - 5.5	FAT CLAY(CH)	53	21	32		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Gravel	%Sand	%Fines
B-1	0.5 - 0.9167	9.5	2.169			31.8	35.2	33.0
B-2	3 - 3.833	9.5	1.952	0.409		22.6	55.5	21.9
B-3	0.5 - 2	9.5	3.123	0.095		35.5	35.9	28.6
B-3	6 - 7.417	9.5	2.89			35.8	30.3	33.9
B-4	4 - 5.5	9.5				0.6	4.7	94.7

PROJECT: Neenah Avenue Widening

SITE: Olive Hill Rd to End of Existing Neenah Ave
Austin, Texas

Terracon
5307 Industrial Oaks Blvd., Suite 160
Austin, Texas

PROJECT NUMBER: 96155065

CLIENT: Bury, Inc.
Austin, Texas

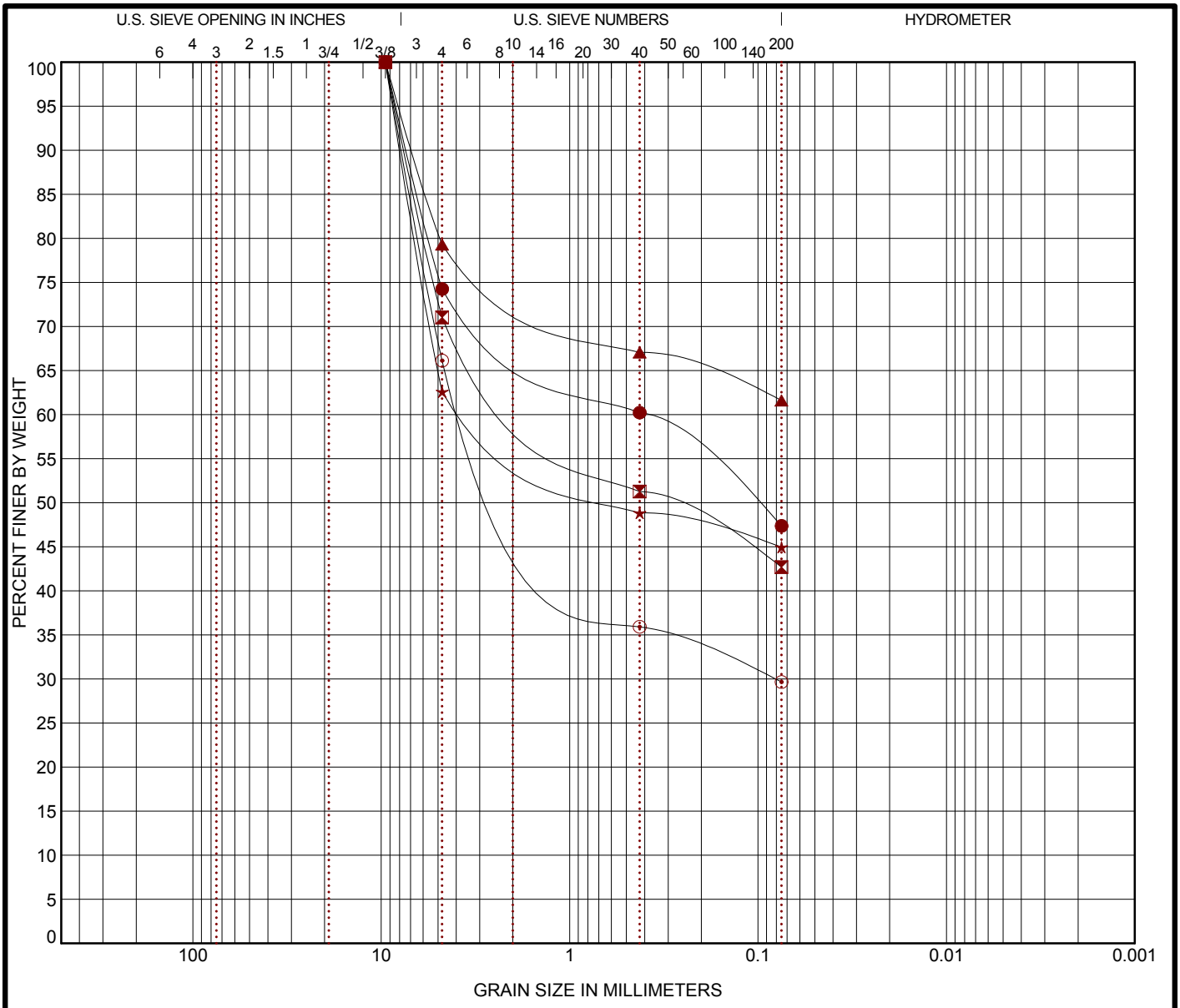
EXHIBIT: B-2

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 96155065 NEENAH AVENUE WIDENING BORING LOGS.GPJ TERRACON2012.GDT 8/7/15

GRAIN SIZE DISTRIBUTION

Williamson County, Texas

ASTM D422



Boring ID	Depth	USCS Classification	LL	PL	PI	Cc	Cu
● B-4	6 - 7.167						
⊠ B-5	0.5 - 2	CLAYEY GRAVEL with SAND(GC)	103	27	76		
▲ B-5	2 - 3.5	GRAVELLY FAT CLAY with SAND(CH)	100	25	75		
★ B-5	4 - 5.5						
⊙ B-5	6 - 7.5	CLAYEY SAND with GRAVEL(SC)	71	21	50		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Gravel	%Sand	%Fines
● B-4	6 - 7.167	9.5	0.412			25.7	26.9	47.4
⊠ B-5	0.5 - 2	9.5	1.235			29.0	28.3	42.7
▲ B-5	2 - 3.5	9.5				20.7	17.7	61.6
★ B-5	4 - 5.5	9.5	3.012			37.4	17.6	45.0
⊙ B-5	6 - 7.5	9.5	2.911	0.082		33.9	36.5	29.7

PROJECT: Neenah Avenue Widening

SITE: Olive Hill Rd to End of Existing Neenah Ave
Austin, Texas

Terracon
5307 Industrial Oaks Blvd., Suite 160
Austin, Texas

PROJECT NUMBER: 96155065

CLIENT: Bury, Inc.
Austin, Texas

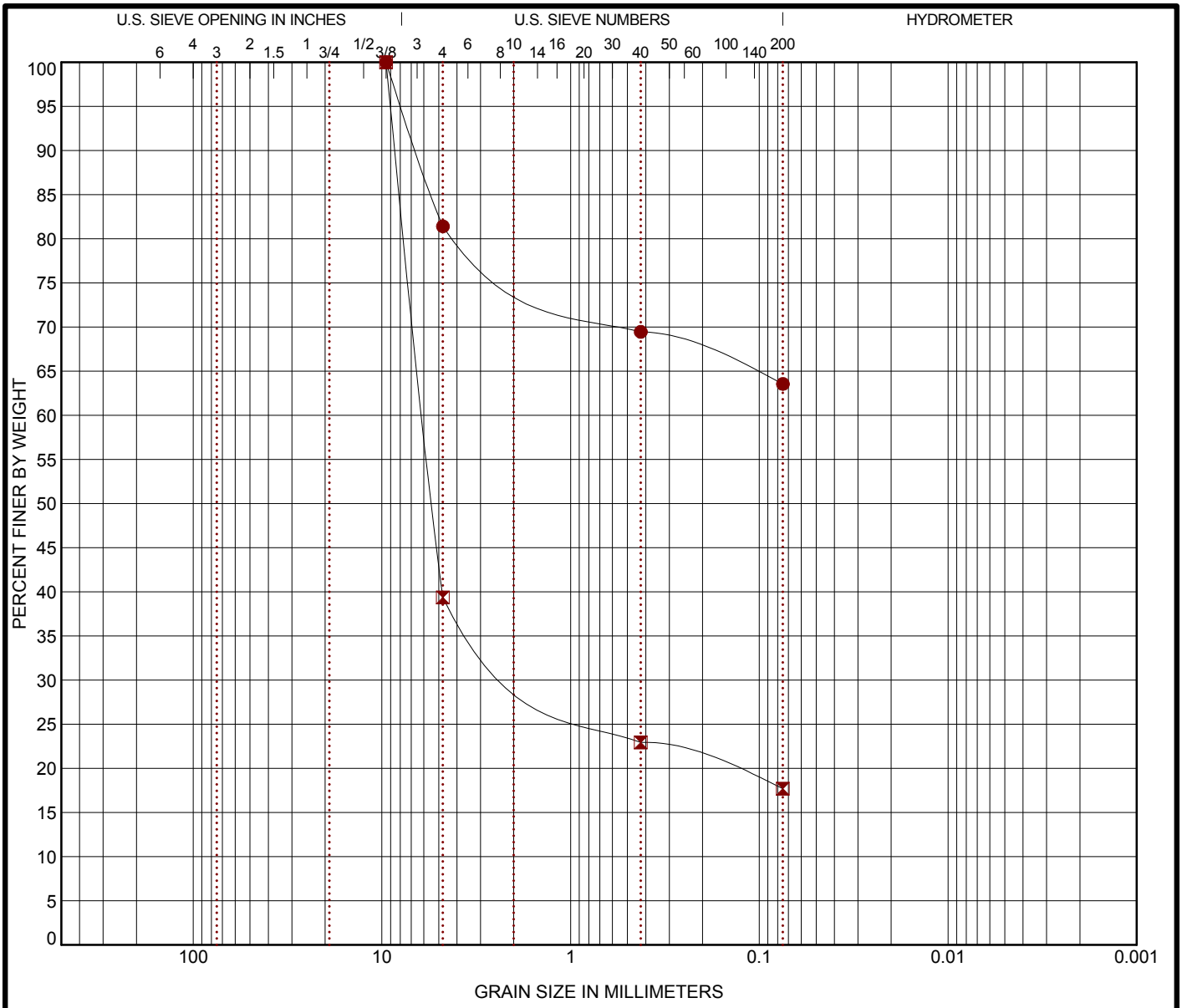
EXHIBIT: B-3

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 96155065 NEENAH AVENUE WIDENING BORING LOGS.GPJ TERRACON2012.GDT 8/7/15

GRAIN SIZE DISTRIBUTION

Williamson County, Texas

ASTM D422



Boring ID	Depth	USCS Classification	LL	PL	PI	Cc	Cu
B-6	0.5 - 2	GRAVELLY FAT CLAY with SAND(CH)	99	30	69		
B-6	4 - 5.5	CLAYEY GRAVEL with SAND(GC)	86	25	61		

Boring ID	Depth	D_{100}	D_{60}	D_{30}	D_{10}	%Gravel	%Sand	%Fines
B-6	0.5 - 2	9.5				18.6	17.9	63.5
B-6	4 - 5.5	9.5	6.013	1.198		60.6	21.7	17.7

PROJECT: Neenah Avenue Widening

SITE: Olive Hill Rd to End of Existing Neenah Ave
Austin, Texas

Terracon
5307 Industrial Oaks Blvd., Suite 160
Austin, Texas

PROJECT NUMBER: 96155065

CLIENT: Bury, Inc.
Austin, Texas

EXHIBIT: B-4

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 96155065 NEENAH AVENUE WIDENING BORING LOGS.GPJ TERRACON2012.GDT 8/7/15

APPENDIX C
SUPPORTING DOCUMENTS

GENERAL NOTES

DESCRIPTION OF SYMBOLS AND ABBREVIATIONS

SAMPLING

- Auger Cuttings
- Grab Sample
- Shelby Tube
- Standard Penetration Test

WATER LEVEL

- **Water Initially Encountered**
- **Water Level After a Specified Period of Time**
- **Water Level After a Specified Period of Time**

Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.

FIELD TESTS

N	**Standard Penetration Test Resistance (Blows/Ft.)**
(TC)	**TxDOT Cone Penetration Test (blows per Foot)**
(HP)	**Hand Penetrometer**
(T)	**Torvane**
(DCP)	**Dynamic Cone Penetrometer**
(PID)	**Photo-Ionization Detector**
(OVA)	**Organic Vapor Analyzer**

DESCRIPTIVE SOIL CLASSIFICATION

Soil classification is based on the Unified Soil Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

LOCATION AND ELEVATION NOTES

Unless otherwise noted, Latitude and Longitude are approximately determined using a hand-held GPS device. The accuracy of such devices is variable. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

STRENGTH TERMS

RELATIVE DENSITY OF COARSE-GRAINED SOILS (More than 50% retained on No. 200 sieve.) Density determined by Standard Penetration Resistance		CONSISTENCY OF FINE-GRAINED SOILS (50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance		
Descriptive Term (Density)	**Standard Penetration or N-Value Blows/Ft.**	**Descriptive Term (Consistency)**	**Unconfined Compressive Strength Qu, (tsf)**	**Standard Penetration or N-Value Blows/Ft.**
Very Loose	0 - 3	Very Soft	less than 0.25	0 - 1
Loose	4 - 9	Soft	0.25 to 0.50	2 - 4
Medium Dense	10 - 29	Medium Stiff	0.50 to 1.00	4 - 8
Dense	30 - 50	Stiff	1.00 to 2.00	8 - 15
Very Dense	> 50	Very Stiff	2.00 to 4.00	15 - 30
		Hard	> 4.00	> 30

RELATIVE PROPORTIONS OF SAND AND GRAVEL

Descriptive Term(s) of other constituents	Percent of Dry Weight
Trace	< 15
With	15 - 29
Modifier	> 30

GRAIN SIZE TERMINOLOGY

Major Component of Sample	Particle Size
Boulders	Over 12 in. (300 mm)
Cobbles	12 in. to 3 in. (300mm to 75mm)
Gravel	3 in. to #4 sieve (75mm to 4.75 mm)
Sand	#4 to #200 sieve (4.75mm to 0.075mm
Silt or Clay	Passing #200 sieve (0.075mm)

RELATIVE PROPORTIONS OF FINES

Descriptive Term(s) of other constituents	Percent of Dry Weight
Trace	< 5
With	5 - 12
Modifier	> 12

PLASTICITY DESCRIPTION

Term	Plasticity Index
Non-plastic	0
Low	1 - 10
Medium	11 - 30
High	> 30

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Exhibit: C-1

UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests [A]					Soil Classification	
					Group Symbol	Group Name [B]
Coarse Grained Soils: More than 50% retained on No. 200 sieve	**Gravels:** More than 50% of coarse fraction retained on No. 4 sieve	**Clean Gravels:** Less than 5% fines [C]	$Cu \geq 4$ and $1 \leq Cc \leq 3$ [E]		GW	Well-graded gravel [F]
			$Cu < 4$ and/or $1 > Cc > 3$ [E]		GP	Poorly graded gravel [F]
		Gravels with Fines: More than 12% fines [C]	Fines classify as ML or MH		GM	Silty gravel [F,G,H]
			Fines classify as CL or CH		GC	Clayey gravel [F,G,H]
	Sands: 50% or more of coarse fraction passes No. 4 sieve	**Clean Sands:** Less than 5% fines [D]	$Cu \geq 6$ and $1 \leq Cc \leq 3$ [E]		SW	Well-graded sand [I]
			$Cu < 6$ and/or $1 > Cc > 3$ [E]		SP	Poorly graded sand [I]
		Sands with Fines: More than 12% fines [D]	Fines classify as ML or MH		SM	Silty sand [G,H,I]
			Fines classify as CL or CH		SC	Clayey sand [G,H,I]
Fine-Grained Soils: 50% or more passes the No. 200 sieve	**Silts and Clays:** Liquid limit less than 50	**Inorganic:**	PI > 7 and plots on or above "A" line [J]		CL	Lean clay [K,L,M]
			PI < 4 or plots below "A" line [J]		ML	Silt [K,L,M]
		Organic:	Liquid limit - oven dried	< 0.75	OL	Organic clay [K,L,M,N]
			Liquid limit - not dried			Organic silt [K,L,M,O]
	Silts and Clays: Liquid limit 50 or more	**Inorganic:**	PI plots on or above "A" line		CH	Fat clay [K,L,M]
			PI plots below "A" line		MH	Elastic Silt [K,L,M]
		Organic:	Liquid limit - oven dried	< 0.75	OH	Organic clay [K,L,M,P]
			Liquid limit - not dried			Organic silt [K,L,M,Q]
Highly organic soils:	Primarily organic matter, dark in color, and organic odor				PT	Peat

[A] Based on the material passing the 3-inch (75-mm) sieve

[B] If field sample contained cobbles or boulders, or both, add "with cobbles and/or boulders" (or both) to group name.

[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

[D] Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay

[E] $Cu = D_{60}/D_{10}$ $\quad Cc = \dfrac{(D_{30})^2}{D_{10} \times D_{60}}$

[F] If soil contains ≥ 15% sand, add "with sand" to group name.

[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

[H] If fines are organic, add "with organic fines" to group name.

[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.

[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.

[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.

[N] PI ≥ 4 and plots on or above "A" line.

[O] PI < 4 or plots below "A" line.

[P] PI plots on or above "A" line.

[Q] PI plots below "A" line.

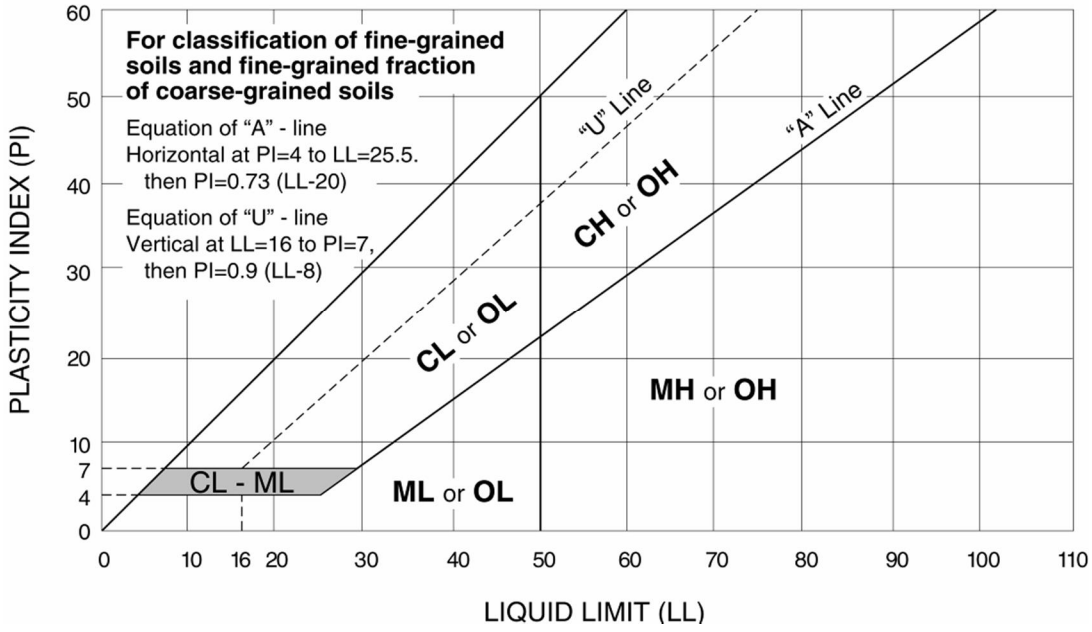

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Exhibit C-2

DESCRIPTION OF ROCK PROPERTIES

WEATHERING	
Term	**Description**
Unweathered	No visible sign of rock material weathering, perhaps slight discoloration on major discontinuity surfaces.
Slightly weathered	Discoloration indicates weathering of rock material and discontinuity surfaces. All the rock material may be discolored by weathering and may be somewhat weaker externally than in its fresh condition.
Moderately weathered	Less than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present either as a continuous framework or as corestones.
Highly weathered	More than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present either as a discontinuous framework or as corestones.
Completely weathered	All rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely intact.
Residual soil	All rock material is converted to soil. The mass structure and material fabric are destroyed. There is a large change in volume, but the soil has not been significantly transported.

STRENGTH OR HARDNESS		
Description	**Field Identification**	**Uniaxial Compressive Strength, PSI (TSF)**
Extremely weak	Indented by thumbnail	40-150 (2.9 – 10.8)
Very weak	Crumbles under firm blows with point of geological hammer, can be peeled by a pocket knife	150-700 (10.8 – 50.4)
Weak rock	Can be peeled by a pocket knife with difficulty, shallow indentations made by firm blow with point of geological hammer	700-4,000 (50.4 – 288)
Medium strong	Cannot be scraped or peeled with a pocket knife, specimen can be fractured with single firm blow of geological hammer	4,000-7,000 (288 – 504)
Strong rock	Specimen requires more than one blow of geological hammer to fracture it	7,000-15,000 (504 – 1,080)
Very strong	Specimen requires many blows of geological hammer to fracture it	15,000-36,000 (1,080 – 2,592)
Extremely strong	Specimen can only be chipped with geological hammer	> 36,000 (> 2,592)

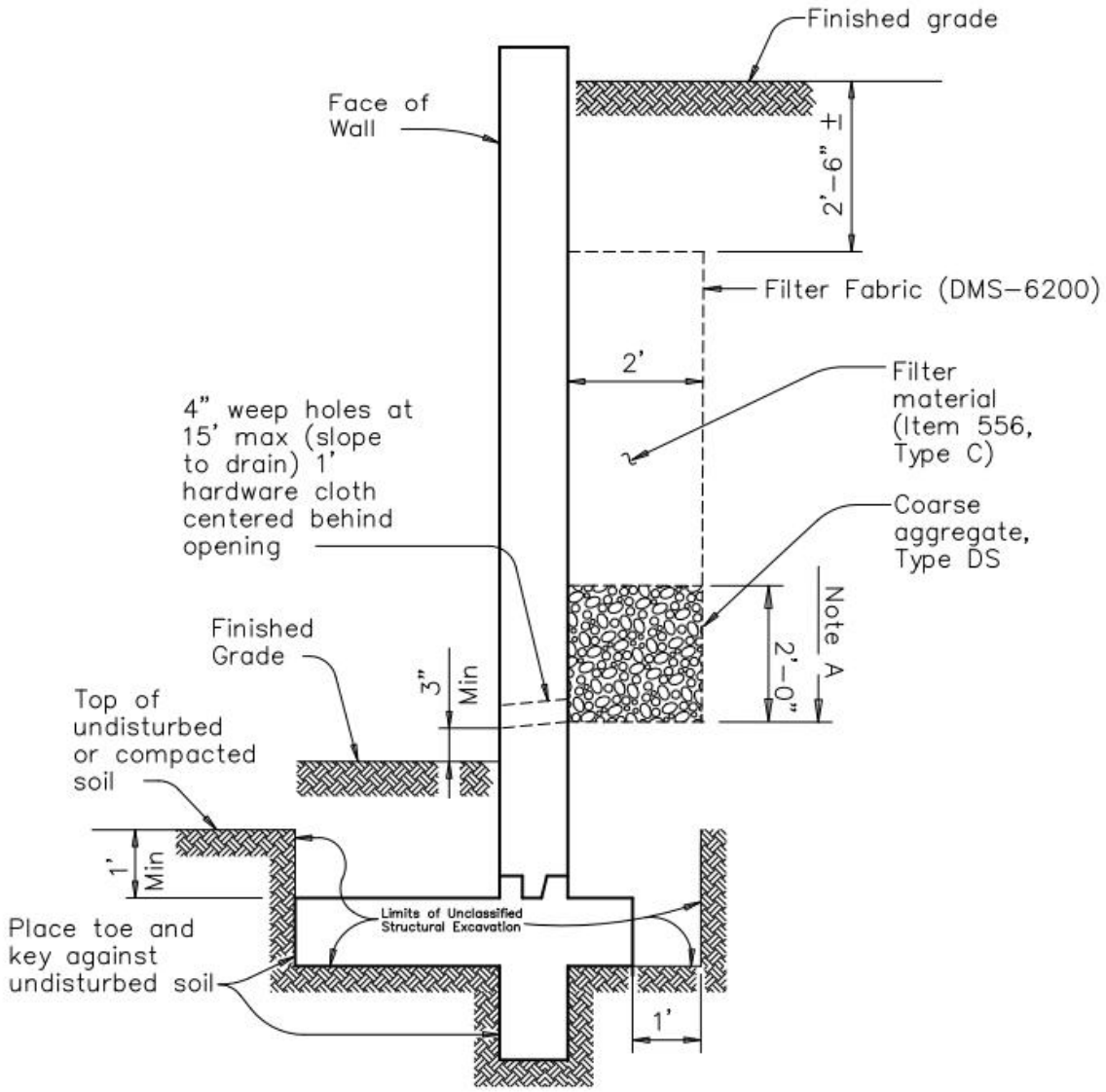
DISCONTINUITY DESCRIPTION			
Fracture Spacing (Joints, Faults, Other Fractures)		**Bedding Spacing (May Include Foliation or Banding)**	
Description	**Spacing**	**Description**	**Spacing**
Extremely close	< ¾ in (< 19 mm)	**Laminated**	< ½ in (< 12 mm)
Very close	¾ in – 2½ in (19 – 60 mm)	**Very thin**	½ in – 2 in (12 – 50 mm)
Close	2½ in – 8 in (60 – 200 mm)	**Thin**	2 in – 1 ft (50 – 300 mm)
Moderate	8 in – 2 ft (200 – 600 mm)	**Medium**	1 ft – 3 ft (300 – 900 mm)
Wide	2 ft – 6 ft (600 mm – 2 m)	**Thick**	3 ft – 10 ft (900 mm – 3 m)
Very Wide	6 ft – 20 ft (2 – 6 m)	**Massive**	> 10 ft (3 m)

Discontinuity Orientation (Angle): Measure the angle of discontinuity relative to a plane perpendicular to the longitudinal axis of the core. (For most cases, the core axis is vertical; therefore, the plane perpendicular to the core axis is horizontal.) For example, a horizontal bedding plane would have a 0 degree angle.

ROCK QUALITY DESIGNATION (RQD*)	
Description	**RQD Value (%)**
Very Poor	0 – 25
Poor	25 – 50
Fair	50 – 75
Good	75 – 90
Excellent	90 – 100

*The combined length of all sound and intact core segments equal to or greater than 4 inches in length, expressed as a percentage of the total core run length.

Reference: U.S. Department of Transportation, Federal Highway Administration, Publication No FHWA-NHI-10-034, December 2009 Technical Manual for Design and Construction of Road Tunnels – Civil Elements



DRAINAGE DETAILS AND EXCAVATION DIAGRAM

Note A: Stop coarse aggregate at this level when weep holes are used.

Project Manager: ADK	Project No. 96145065	Terracon Consulting Engineers & Scientists 5307 Industrial Oaks Blvd, Suite 160 Austin, Texas 78735 PH. (512) 442-1122 FAX. (512) 442-1181	DRAINAGE DETAILS AND EXCAVATION DIAGRAM NEENAH AVENUE WIDENING FROM OLIVE HILL ROAD TO END OF EXISTING NEENAH AVENUE AUSTIN, TEXAS	EXHIBIT C-4
Drawn By: ADK	Scale: N.T.S.			
Checked By: ADK	File Name: 96145065			
Approved By: ADK	Date: 8/7/2015			

APPENDIX D

PAVEMENT DESIGN OUTPUT FILES

LTS.OUT

1

```
 MM     MM  FFFFFFFFF  PPPPPPPP     SSSSS      11
 MMM   MMM  FFFFFFFFF  PPPPPPPPP   SSSSSSS    111
 MMMM MMMM  FF         PP     PP  SS     SS  1111
 MMMMMMMMM  FF         PP     PP  SS           11
 MM MMM MM  FFFFFFF    PPPPPPPPP   SSSSSS      11
 MM  M  MM  FFFFFFF    PPPPPPPP     SSSSSS     11
 MM     MM  FF         PP                SS    11
 MM     MM  FF         PP          SS    SS    11
 MM     MM  FF         PP           SSSSSSS   111111
 MM     MM  FF         PP             SSSSS   111111
```

MUNICIPAL FLEXIBLE PAVEMENT DESIGN SYSTEM
VERSION 1.0, SEPTEMBER 1983
MOVED TO MICROCOMPUTER OCTOBER 1985 (P.J.- BRE)

NOTICE --

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1

MFPS-1 MUNICIPAL FLEXIBLE PAVEMENT DESIGN SYSTEM, VERSION 1.0, 8/83
ADAPTED FROM TEXAS SDHPT FPS-11 PROGRAM FOR CITY OF AUSTIN
BY ARE INC, CONSULTING ENGINEERS, AUSTIN, TEXAS

PROBLEM TITLE (DESCRIPTION)
NEENAH AVE WIDENING (PROJECT NO. 96155065) - MINOR ARTERIAL, 4-LANE DIVIDED MINOR ARTERIAL
PAVEMENT DESIGN OPTIONS 1 AND 2

LTS.OUT

***** PAVEMENT *****

TOTAL NUMBER OF LANES IN FACILITY	4
TOTAL NUMBER OF CURBS IN FACILITY	4
NUMBER OF LAYERS CONSIDERED IN THIS PROBLEM	3
LANE WIDTH (FEET)	12.00
CURB HEIGHT (INCHES)	6.00
CONCRETE CURB CONSTRUCTION COST ($/LF)	15.00
THICKENED EDGE FIXED COST ($/LF)	.00
THICKENED EDGE INCREMENTAL COST ($/IN/LF)	.00

***** LAYER *****

LAYER NO.	LAYER CODE	LAYER DESCRIPTION	MIN. DEPTH (IN.)	MAX. DEPTH (IN.)	THICK. INCR. (IN.)	COST ($/CY)	COST ($/SY)	SALV. VALUE (%)	STIFF. COEF.
1	A	HMAC	6.00	8.00	.50	90.00	.00	30.0	.960
2	F	FLEX BASE	12.00	36.00	1.00	20.00	.00	20.0	.500
3	L	LIME STAB.	8.00	8.00	1.00	10.00	.00	20.0	.320

***** SUBGRADE *****

SWELLING PROBABILITY	1.00
SWELLING RATE CONSTANT	.12
POTENTIAL VERTICAL RISE (INCHES)	1.50
SUBGRADE EXCAVATION COST ($/CY)	5.50
SUBGRADE COST ($/SY)	.00
SUBGRADE STIFFNESS COEFFICIENT	.180

***** AC OVERLAY *****

MINIMUM AC OVERLAY THICKNESS (INCHES)	1.50
MAXIMUM ACCUMULATED OVERLAY THICKNESS (INCHES)	4.00
AVERAGE LEVEL-UP THICKNESS (INCHES)	.50
OVERLAY COST ($/CY)	65.00
OVERLAY COST ($/SY)	.00
OVERLAY SALVAGE VALUE (%)	15.00
AC OVERLAY STIFFNESS COEFFICIENT	1.000
OVERLAY EDGE TAPERING COST ($/LF)	.00
OVERLAY EDGE MILLING COST ($/LF)	12.00
AC OVERLAY PRODUCTION RATE (CY/HR)	40.0

LTS.OUT

1

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PROBLEM TITLE (DESCRIPTION)
NEENAH AVE WIDENING (PROJECT NO. 96155065) - MINOR ARTERIAL, 4-LANE DIVIDED MINOR ARTERIAL
PAVEMENT DESIGN OPTIONS 1 AND 2

***** DESIGN CONSTRAINTS *****

CONFIDENCE LEVEL (%).	90.00
LENGTH OF ANALYSIS PERIOD (YEARS)	20.0
MINIMUM TIME TO FIRST OVERLAY (YEARS)	20.0
MINIMUM TIME BETWEEN OVERLAYS (YEARS)	10.0
MAXIMUM THICKNESS OF INITIAL CONSTR. (INCHES) . .	30.00
MAXIMUM FUNDS AVAILABLE FOR INITIAL CONSTR. ($) .	50.00
DISCOUNT RATE (%)	5.00

***** PERFORMANCE *****

SERVICEABILITY INDEX AFTER INITIAL CONSTRUCTION .	4.20
TERMINAL SERVICEABILITY INDEX	2.50
SERVICEABILITY INDEX AFTER OVERLAY CONSTRUCTION .	4.00

***** MAINTENANCE *****

FIRST YEAR COST OF ROUTINE MAINTENANCE.	.00
ANNUAL INCREMENTAL INCREASE IN MAINTENANCE COST .	150.00

***** TRAFFIC *****

AVERAGE DAILY TRAFFIC GROWTH RATE (%)	4.00
DIRECTIONAL DISTRIBUTION FACTOR (%)	50.00
LANE DISTRIBUTION FACTOR (%).	90.00
PERCENT TRUCKS IN AVERAGE DAILY TRAFFIC	10.90
18-KIP EQUIVALENCY FACTOR FOR STD. CITY TRUCK . .	.62
INITIAL ADT ON FACILITY (VPD)	9000.

***** TRAFFIC DELAY *****

INDEX TO DETOUR MODEL	4
NO. OF OPEN LANES THROUGH OVERLAY ZONE IN OVERLAY DIRECTION	1

LTS.OUT

```
     IN NON-OVERLAY DIRECTION . . . . . .  2
AVERAGE APPROACH SPEED TO OVERLAY ZONE (MPH). . .    40.
AVERAGE SPEED THROUGH OVERLAY ZONE (MPH)
     IN OVERLAY DIRECTION . . . . . .    15.
     IN NON-OVERLAY DIRECTION . . . . . .    40.
DISTANCE OVER WHICH TRAFFIC IS SLOWED (MILES)
     IN OVERLAY DIRECTION . . . . . .    .50
     IN NON-OVERLAY DIRECTION . . . . . .    .00
DETOUR DISTANCE (MILES) . . . . . .   1.00
NO. OF HOURS PER DAY OVERLAY CONSTRUCTION OCCURS.   7.00
ADT ARRIVING EACH HOUR OF CONSTRUCTION (%). . . .   6.00


1
     MFPS-1  MUNICIPAL FLEXIBLE PAVEMENT DESIGN SYSTEM, VERSION 1.0, 8/83
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     PROBLEM        TITLE (DESCRIPTION)
     NEENAH AVE WIDENING (PROJECT NO. 96155065) - MINOR ARTERIAL, 4-LANE DIVIDED
MINOR ARTERIAL
     PAVEMENT DESIGN OPTIONS 1 AND 2

     SUMMARY OF THE BEST DESIGN STRATEGIES
     IN ORDER OF INCREASING TOTAL COST
```

	1	2	3	4	5	6	7
MATERIAL ARRANGEMENT	AFL	AF	AFL	AF	AF	AF	AF
SUBGRADE EXC. COST	4.13	3.67	4.05	3.59	3.51	3.44	3.36
CURB CONSTR. COST	11.25	11.25	11.25	11.25	11.25	11.25	11.25
THICKENED EDGE COST	.00	.00	.00	.00	.00	.00	.00
TAPERING COSTS	.00	.00	.00	.00	.00	.00	.00
MILLING COSTS	.00	.00	.00	.00	.00	.00	.00
INIT. CONST. COST	39.82	39.92	40.44	40.53	41.15	41.77	42.39
OVERLAY CONST. COST	.00	.00	.00	.00	.00	.00	.00
USER COST	.00	.00	.00	.00	.00	.00	.00
ROUTINE MAINT. COST	2.20	2.20	2.20	2.20	2.20	2.20	2.20
SALVAGE VALUE	-2.41	-2.45	-2.51	-2.55	-2.65	-2.75	-2.85
TOTAL COST	39.61	39.67	40.13	40.19	40.71	41.23	41.74
LAYER DEPTH (INCHES)							
D(1)	6.00	6.00	6.50	6.50	7.00	7.50	8.00
D(2)	13.00	18.00	12.00	17.00	16.00	15.00	14.00
D(3)	8.00	.00	8.00	.00	.00	.00	.00

LTS.OUT

```
**************************************************************************
OVERLAY POLICY(INCH)
(INCLUDING LEVEL-UP)
**************************************************************************
PERF. TIME (YEARS)
    T(1)             20.00  20.94  20.41  21.50  21.87  22.20  22.45
**************************************************************************
SWELLING CLAY LOSS
 (SERVICEABILITY)
   SC(1)               .46    .46    .46    .46    .47    .47    .47
**************************************************************************

THE TOTAL NUMBER OF FEASIBLE DESIGNS ENCOUNTERED WAS        51
```

LTSBB.OUT

1

```
 MM     MM  FFFFFFFFF  PPPPPPPP     SSSSS      11
 MMM   MMM  FFFFFFFFF  PPPPPPPPP   SSSSSSS    111
 MMMM MMMM  FF         PP     PP  SS     SS  1111
 MMMMMMMMM  FF         PP     PP  SS           11
 MM MMM MM  FFFFFFF    PPPPPPPPP   SSSSSS      11
 MM  M  MM  FFFFFFF    PPPPPPPP     SSSSSS     11
 MM     MM  FF         PP                SS    11
 MM     MM  FF         PP          SS    SS    11
 MM     MM  FF         PP           SSSSSSS   111111
 MM     MM  FF         PP             SSSSS   111111
```

MUNICIPAL FLEXIBLE PAVEMENT DESIGN SYSTEM
VERSION 1.0, SEPTEMBER 1983
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1

MFPS-1 MUNICIPAL FLEXIBLE PAVEMENT DESIGN SYSTEM, VERSION 1.0, 8/83
ADAPTED FROM TEXAS SDHPT FPS-11 PROGRAM FOR CITY OF AUSTIN
BY ARE INC, CONSULTING ENGINEERS, AUSTIN, TEXAS

PROBLEM TITLE (DESCRIPTION)
NEENAH AVE WIDENING (PROJECT NO. 96155065) - MINOR ARTERIAL, 4-LANE DIVIDED MINOR ARTERIAL
PAVEMENT DESIGN OPTIONS 3 AND 4

LTSBB.OUT

***** PAVEMENT *****

TOTAL NUMBER OF LANES IN FACILITY 4
TOTAL NUMBER OF CURBS IN FACILITY 4
NUMBER OF LAYERS CONSIDERED IN THIS PROBLEM . . . 3
LANE WIDTH (FEET) 12.00
CURB HEIGHT (INCHES). 6.00
CONCRETE CURB CONSTRUCTION COST ($/LF). 15.00
THICKENED EDGE FIXED COST ($/LF). 00
THICKENED EDGE INCREMENTAL COST ($/IN/LF) 00

***** LAYER *****

LAYER NO.	LAYER CODE	LAYER DESCRIPTION	MIN. DEPTH (IN.)	MAX. DEPTH (IN.)	THICK. INCR. (IN.)	COST ($/CY)	COST ($/SY)	SALV. VALUE (%)	STIFF. COEF.
1	A	HMAC	4.00	8.00	.50	90.00	.00	30.0	.960
2	B	ASPH. STAB.	4.00	20.00	.50	20.00	.00	20.0	.900
3	L	LIME STAB.	8.00	8.00	1.00	10.00	.00	20.0	.300

***** SUBGRADE *****

SWELLING PROBABILITY. 1.00
SWELLING RATE CONSTANT. 12
POTENTIAL VERTICAL RISE (INCHES). 1.50
SUBGRADE EXCAVATION COST ($/CY) 5.50
SUBGRADE COST ($/SY). 00
SUBGRADE STIFFNESS COEFFICIENT. 180

***** AC OVERLAY *****

MINIMUM AC OVERLAY THICKNESS (INCHES) 1.50
MAXIMUM ACCUMULATED OVERLAY THICKNESS (INCHES). . 4.00
AVERAGE LEVEL-UP THICKNESS (INCHES) 50
OVERLAY COST ($/CY) 65.00
OVERLAY COST ($/SY) 00
OVERLAY SALVAGE VALUE (%) 15.00
AC OVERLAY STIFFNESS COEFFICIENT. 1.000
OVERLAY EDGE TAPERING COST ($/LF) 00
OVERLAY EDGE MILLING COST ($/LF). 12.00
AC OVERLAY PRODUCTION RATE (CY/HR). 40.0

1

LTSBB.OUT

MFPS-1 MUNICIPAL FLEXIBLE PAVEMENT DESIGN SYSTEM, VERSION 1.0, 8/83
ADAPTED FROM TEXAS SDHPT FPS-11 PROGRAM FOR CITY OF AUSTIN
BY ARE INC, CONSULTING ENGINEERS, AUSTIN, TEXAS

PROBLEM TITLE (DESCRIPTION)
NEENAH AVE WIDENING (PROJECT NO. 96155065) - MINOR ARTERIAL, 4-LANE DIVIDED MINOR ARTERIAL
PAVEMENT DESIGN OPTIONS 3 AND 4

***** DESIGN CONSTRAINTS *****

CONFIDENCE LEVEL (%).	90.00
LENGTH OF ANALYSIS PERIOD (YEARS)	20.0
MINIMUM TIME TO FIRST OVERLAY (YEARS)	20.0
MINIMUM TIME BETWEEN OVERLAYS (YEARS)	10.0
MAXIMUM THICKNESS OF INITIAL CONSTR. (INCHES) . .	30.00
MAXIMUM FUNDS AVAILABLE FOR INITIAL CONSTR. ($) .	50.00
DISCOUNT RATE (%)	5.00

***** PERFORMANCE *****

SERVICEABILITY INDEX AFTER INITIAL CONSTRUCTION .	4.20
TERMINAL SERVICEABILITY INDEX	2.50
SERVICEABILITY INDEX AFTER OVERLAY CONSTRUCTION .	4.00

***** MAINTENANCE *****

FIRST YEAR COST OF ROUTINE MAINTENANCE.	.00
ANNUAL INCREMENTAL INCREASE IN MAINTENANCE COST .	150.00

***** TRAFFIC *****

AVERAGE DAILY TRAFFIC GROWTH RATE (%)	4.00
DIRECTIONAL DISTRIBUTION FACTOR (%)	50.00
LANE DISTRIBUTION FACTOR (%).	90.00
PERCENT TRUCKS IN AVERAGE DAILY TRAFFIC	10.90
18-KIP EQUIVALENCY FACTOR FOR STD. CITY TRUCK . .	.62
INITIAL ADT ON FACILITY (VPD)	9000.

***** TRAFFIC DELAY *****

INDEX TO DETOUR MODEL	4
NO. OF OPEN LANES THROUGH OVERLAY ZONE	
IN OVERLAY DIRECTION	1
IN NON-OVERLAY DIRECTION	2

LTSBB.OUT

AVERAGE APPROACH SPEED TO OVERLAY ZONE (MPH). . .	40.
AVERAGE SPEED THROUGH OVERLAY ZONE (MPH)	
IN OVERLAY DIRECTION	15.
IN NON-OVERLAY DIRECTION	40.
DISTANCE OVER WHICH TRAFFIC IS SLOWED (MILES)	
IN OVERLAY DIRECTION	.50
IN NON-OVERLAY DIRECTION	.00
DETOUR DISTANCE (MILES)	1.00
NO. OF HOURS PER DAY OVERLAY CONSTRUCTION OCCURS.	7.00
ADT ARRIVING EACH HOUR OF CONSTRUCTION (%). . . .	6.00

1

MFPS-1 MUNICIPAL FLEXIBLE PAVEMENT DESIGN SYSTEM, VERSION 1.0, 8/83
ADAPTED FROM TEXAS SDHPT FPS-11 PROGRAM FOR CITY OF AUSTIN
BY ARE INC, CONSULTING ENGINEERS, AUSTIN, TEXAS

PROBLEM TITLE (DESCRIPTION)
NEENAH AVE WIDENING (PROJECT NO. 96155065) - MINOR ARTERIAL, 4-LANE DIVIDED MINOR ARTERIAL
PAVEMENT DESIGN OPTIONS 3 AND 4

SUMMARY OF THE BEST DESIGN STRATEGIES
IN ORDER OF INCREASING TOTAL COST

	1	2	3	4	5	6	7
MATERIAL ARRANGEMENT	AB	AB	AB	ABL	AB	ABL	ABL
SUBGRADE EXC. COST	2.37	2.37	2.37	3.28	2.37	3.28	3.21
CURB CONSTR. COST	11.25	11.25	11.25	11.25	11.25	11.25	11.25
THICKENED EDGE COST	.00	.00	.00	.00	.00	.00	.00
TAPERING COSTS	.00	.00	.00	.00	.00	.00	.00
MILLING COSTS	.00	.00	.00	.00	.00	.00	.00
INIT. CONST. COST	30.01	30.98	31.95	32.03	32.92	33.01	33.63
OVERLAY CONST. COST	.00	.00	.00	.00	.00	.00	.00
USER COST	.00	.00	.00	.00	.00	.00	.00
ROUTINE MAINT. COST	2.20	2.20	2.20	2.20	2.20	2.20	2.20
SALVAGE VALUE	-1.61	-1.73	-1.85	-1.70	-1.97	-1.82	-1.92
TOTAL COST	30.60	31.45	32.30	32.54	33.15	33.39	33.91
LAYER DEPTH (INCHES)							
D(1)	4.00	4.50	5.00	4.00	5.50	4.50	5.00
D(2)	11.50	11.00	10.50	9.50	10.00	9.00	8.00
D(3)	.00	.00	.00	8.00	.00	8.00	8.00

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```
     OVERLAY POLICY(INCH)
     (INCLUDING LEVEL-UP)
     ************************************************************************
     PERF. TIME (YEARS)
         T(1)            20.83  21.07  21.30  22.55  21.53  22.78  20.00
     ************************************************************************
     SWELLING CLAY LOSS
      (SERVICEABILITY)
        SC(1)              .46    .46    .46    .47    .46    .47    .46
     ************************************************************************
1
     MFPS-1  MUNICIPAL FLEXIBLE PAVEMENT DESIGN SYSTEM, VERSION 1.0, 8/83
             ADAPTED FROM TEXAS SDHPT FPS-11 PROGRAM FOR CITY OF AUSTIN
             BY ARE INC, CONSULTING ENGINEERS, AUSTIN, TEXAS

     PROBLEM        TITLE (DESCRIPTION)
      NEENAH AVE WIDENING (PROJECT NO. 96155065) - MINOR ARTERIAL, 4-LANE DIVIDED
MINOR ARTERIAL
      PAVEMENT DESIGN OPTIONS 3 AND 4

     SUMMARY OF THE BEST DESIGN STRATEGIES
     IN ORDER OF INCREASING TOTAL COST

                               8      9     10     11     12     13     14
     ************************************************************************
     MATERIAL ARRANGEMENT    AB     ABL    AB     ABL    AB     ABL    AB
     ************************************************************************
     SUBGRADE EXC. COST     2.37   3.21   2.37   3.21   2.37   3.21   2.37
     CURB CONSTR. COST     11.25  11.25  11.25  11.25  11.25  11.25  11.25
     THICKENED EDGE COST     .00    .00    .00    .00    .00    .00    .00
     ************************************************************************
     TAPERING COSTS          .00    .00    .00    .00    .00    .00    .00
     MILLING COSTS           .00    .00    .00    .00    .00    .00    .00
     ************************************************************************
     INIT. CONST. COST     33.90  34.60  34.87  35.57  35.84  36.54  36.81
     OVERLAY CONST. COST     .00    .00    .00    .00    .00    .00    .00
     USER COST               .00    .00    .00    .00    .00    .00    .00
     ROUTINE MAINT. COST    2.20   2.20   2.20   2.20   2.20   2.20   2.20
     SALVAGE VALUE         -2.09  -2.04  -2.21  -2.16  -2.33  -2.28  -2.46
     ************************************************************************
     TOTAL COST            34.01  34.76  34.86  35.62  35.71  36.47  36.56
     ************************************************************************
     LAYER DEPTH (INCHES)
         D(1)              6.00   5.50   6.50   6.00   7.00   6.50   7.50
         D(2)              9.50   7.50   9.00   7.00   8.50   6.50   8.00
         D(3)               .00   8.00    .00   8.00    .00   8.00    .00
     ************************************************************************
     OVERLAY POLICY(INCH)
     (INCLUDING LEVEL-UP)
```

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```
**********************************************************************
PERF. TIME (YEARS)
    T(1)            21.76  20.25  21.89  20.46  22.10  20.67  22.31
**********************************************************************
SWELLING CLAY LOSS
 (SERVICEABILITY)
   SC(1)               .47    .46    .47    .46    .47    .46    .47
**********************************************************************
1
     MFPS-1  MUNICIPAL FLEXIBLE PAVEMENT DESIGN SYSTEM, VERSION 1.0, 8/83
             ADAPTED FROM TEXAS SDHPT FPS-11 PROGRAM FOR CITY OF AUSTIN
             BY ARE INC, CONSULTING ENGINEERS, AUSTIN, TEXAS

     PROBLEM        TITLE (DESCRIPTION)
      NEENAH AVE WIDENING (PROJECT NO. 96155065) - MINOR ARTERIAL, 4-LANE DIVIDED
MINOR ARTERIAL
      PAVEMENT DESIGN OPTIONS 3 AND 4

     SUMMARY OF THE BEST DESIGN STRATEGIES
     IN ORDER OF INCREASING TOTAL COST

                             15     16     17     18
     ****************************************************
     MATERIAL ARRANGEMENT    ABL    AB     ABL    ABL
     ****************************************************
     SUBGRADE EXC. COST     3.21   2.37   3.21   3.21
     CURB CONSTR. COST     11.25  11.25  11.25  11.25
     THICKENED EDGE COST     .00    .00    .00    .00
     ****************************************************
     TAPERING COSTS          .00    .00    .00    .00
     MILLING COSTS           .00    .00    .00    .00
     ****************************************************
     INIT. CONST. COST     37.51  37.78  38.49  39.46
     OVERLAY CONST. COST     .00    .00    .00    .00
     USER COST               .00    .00    .00    .00
     ROUTINE MAINT. COST    2.20   2.20   2.20   2.20
     SALVAGE VALUE         -2.40  -2.58  -2.52  -2.64
     ****************************************************
     TOTAL COST            37.32  37.41  38.17  39.02
     ****************************************************
     LAYER DEPTH (INCHES)
         D(1)              7.00   8.00   7.50   8.00
         D(2)              6.00   7.50   5.50   5.00
         D(3)              8.00    .00   8.00   8.00
     ****************************************************
     OVERLAY POLICY(INCH)
     (INCLUDING LEVEL-UP)
     ****************************************************
     PERF. TIME (YEARS)
```

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```
    T(1)             20.89  22.52  21.10  21.32
**************************************************
SWELLING CLAY LOSS
 (SERVICEABILITY)
   SC(1)               .46    .47    .46    .46
**************************************************

THE TOTAL NUMBER OF FEASIBLE DESIGNS ENCOUNTERED WAS       358
```

Standard Asphalt Pavement - TWH Edition - 20150207

SpectraPave4 PRO™
Pavement Optimization Design Analysis

Design Parameters for AASHTO (1993) Equation

Reliability (%)	= 95	Initial Serviceability	= 4.2
Standard Normal Deviate	= -1.645	Terminal Serviceability	= 2.5
Standard Deviation	= 0.49	Change in Serviceability	= 1.7

Aggregate fill shall conform to following requirement:

D50 <= 27mm (Base course)

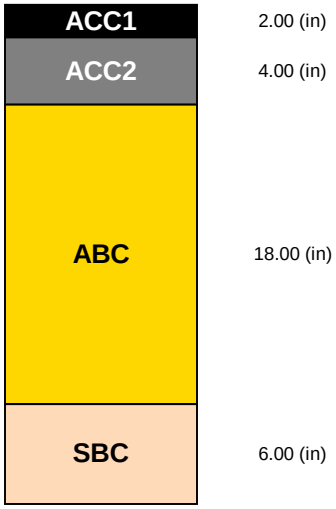
Unstabilized Section Material Properties

Layer	Description	Cost ($/ton)	Layer coefficient	Drainage factor
ACC1	Asphalt Wearing Course	70	0.420	N/A
ACC2	Dense-graded Asphalt Course	70	0.400	N/A
ABC	Aggregate Base Course	20	0.140	1.0
SBC	Subbase Course	16	0.080	1.0

Stabilized Section Material Properties

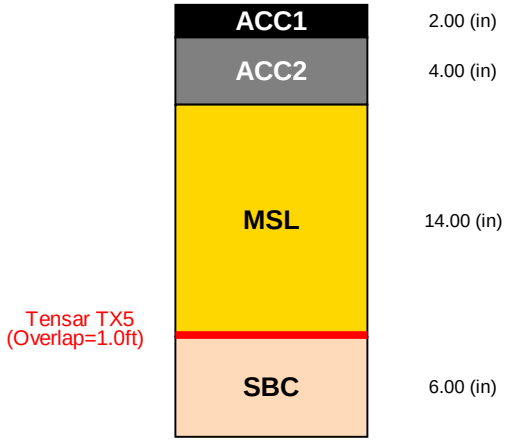
Layer	Description	Cost ($/ton)	Layer coefficient	Drainage factor
ACC1	Asphalt Wearing Course	70	0.420	N/A
ACC2	Dense-graded Asphalt Course	70	0.400	N/A
MSL	Mechanically Stabilized Base Cour	20	0.199	1.0
SBC	Subbase Course	16	0.080	1.0

Unstabilized Pavement



Subgrade Modulus = 5,000 (psi)
Structural Number = 5.440
Calculated Traffic (ESALs) = 4,454,000

Stabilized Pavement



Subgrade Modulus = 5,000 (psi)
Structural Number = 5.706
Calculated Traffic (ESALs) = 6,323,000

LIMITATIONS OF THE REPORT

The designs, illustrations, information and other content included in this report are necessarily general and conceptual in nature, and do not constitute engineering advice or any design intended for actual construction. Specific design recommendations can be provided as the project develops.

Project Name	Neenah Avenue Widening		
Company Name	Tensar		
Designer	ADK	Date	7/31/2015

Printed on 07-31-2015 N:\Projects\2015\96155065\Working Files\Calculations-Analyses\Spectrapave design.sp4p

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Developed by Tensar International Corporation
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Standard Asphalt Pavement - TWH Edition - 20150207

Flexible Pavement Design Analysis

Design Parameters for AASHTO (1993) Equation

Reliability (%)	= 95	Initial Serviceability	= 4.2
Standard Normal Deviate	= -1.645	Terminal Serviceability	= 2.5
Standard Deviation	= 0.49	Change in Serviceability	= 1.7

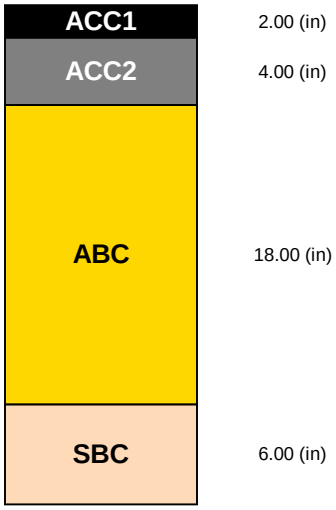
Unstabilized Section Material Properties

Layer	Description	Cost ($/ton)	Layer coefficient	Drainage factor
ACC1	Asphalt Wearing Course	70	0.420	N/A
ACC2	Dense-graded Asphalt Course	70	0.400	N/A
ABC	Aggregate Base Course	20	0.140	1.0
SBC	Subbase Course	16	0.080	1.0

Stabilized Section Material Properties

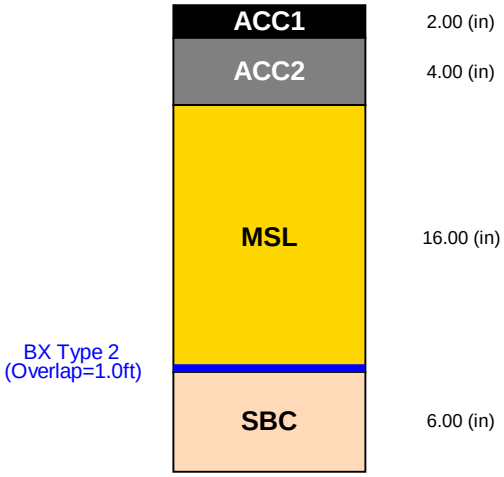
Layer	Description	Cost ($/ton)	Layer coefficient	Drainage factor
ACC1	Asphalt Wearing Course	70	0.420	N/A
ACC2	Dense-graded Asphalt Course	70	0.400	N/A
MSL	Mechanically Stabilized Base Cour	20	0.177	1.0
SBC	Subbase Course	16	0.080	1.0

Unstabilized Pavement



Subgrade Modulus = 5,000 (psi)
Structural Number = 5.440
Calculated Traffic (ESALs) = 4,454,000

Stabilized Pavement



Subgrade Modulus = 5,000 (psi)
Structural Number = 5.752
Calculated Traffic (ESALs) = 6,711,000

LIMITATIONS OF THE REPORT

The designs, illustrations, information and other content included in this report are necessarily general and conceptual in nature, and do not constitute engineering advice or any design intended for actual construction. Specific design recommendations can be provided as the project develops. **This report is for use of a generic biaxial geogrid ONLY where the specific product has been substantiated by full scale in-ground testing. The user is encouraged to refer to the analysis of the Performance Verified TriAx geogrids in addition to the section shown in this report.**

Project Name	Neenah Avenue Widening		
Company Name	Tensar		
Designer	ADK	Date	7/31/2015

Printed on 07-31-2015 N:\Projects\2015\96155065\Working Files\Calculations-Analyses\Spectrapave design.sp4p

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PROJECT: **1710-194 Neenah Ave Widening** **BIDDER:** _____

Full compensation for compliance with each and every provision of the Request for Bids, the Bid, the Specifications, and the Contract will be considered as included in the unit prices for the work set forth below, and no separate payment will be made for compliance with each and every provision of the Request for Bids, the Bid, the Specifications, and the Contract, unless separate payment is expressly provided for therein.

BID ITEM	TECH SPEC1	DESCRIPTION	BID QUANTITY	UNIT MEASURE	UNIT COST	AMOUNT BID
1	500-WC01	MOBILIZATION	1	LS		$ -
2	101S-C	PREPARING RIGHT-OF-WAY	1	LS		$ -
3	102S-C	CLEARING AND GRUBBING	1	LS		$ -
4	104S-A	REMOVE P.C. CONCRETE CURB	50	LF		$ -
5	110S-B	STREET EXCAVATION, PLAN QUANTITY	544	CY		$ -
6	120S-B	CHANNEL EXCAVATION, PLAN QUANTITY	982	CY		$ -
7	130S-T	CLASS C (TOP SOIL), PLAN QUANTITY	560	CY		$ -
8	132S-A	EMBANKMENT	3306	CY		$ -
9	201S	SUBGRADE PREPERATION	14632	SY		$ -
10	203S-A	LIME TREATED SUBGRADE, (8 IN THICK), (SLURRY)	4967	SY		$ -
11	210S-A	FLEXIBLE BASE	3424	CY		$ -
12	306S	PRIME COAT	689	GAL		$ -
13	307S	TACK COAT	421	GAL		$ -
14	312S-D	SEAL COAT, COMPLETE IN PLACE	17156	SY		$ -
15	313S-B	RUBBER ASPHALT JOINT AND CRACK SEALER	9888	LF		$ -
16	315S-A	SURFACE MILLING	820	SY		$ -

PROJECT: **1710-194 Neenah Ave Widening** **BIDDER:** _____

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BID ITEM	TECH SPEC1	DESCRIPTION	BID QUANTITY	UNIT MEASURE	UNIT COST	AMOUNT BID
17	340S-B2D	HOT MIX ASPHALTIC CONCRETE PAVEMENT, 2 INCHES, TYPE D	3834	SY		$ -
18	340S-B4C	HOT MIX ASPHALTIC CONCRETE PAVEMENT, 4 INCHES, TYPE C	3231	SY		$ -
19	340S-B3C	HOT MIX ASPHALTIC CONCRETE PAVEMENT, 3 INCHES, TYPC C	26	SY		$ -
20	340S-L	HOT MIX ASPHALTIC CONCRETE PAVEMENT, HEIGHT VARIES, TYPE D LEVEL-UP COURSE	1	LS		$ -
21	360S-A	7 IN. CONCRETE PAVEMENT	101	SY		$ -
22	360S-B	MONOLITHIC CURB	513	LF		$ -
23	401S-A	UNCLASSIFIED STRUCTURAL EXCAVATION, PLAN QUANTITY	1233	CY		$ -
24	414S-C-N	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL (RET. WALL N), INCLUDING REINFORCEMENT, COMPLETE IN PLACE AS DETAILED AND SPECIFIED	50	CY		$ -
25	414S-C-S	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL (RET. WALL S), INCLUDING REINFORCEMENT, COMPLETE IN PLACE AS DETAILED AND SPECIFIED	100	CY		$ -
26	414S-C-P	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL FOOTING (RET. WALL P), INCLUDING REINFORCEMENT, COMPLETE IN PLACE AS DETAILED AND SPECIFIED	10	CY		$ -
27	414S-C-SUP	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL, INCLUDING REINFORCING STEEL	12	CY		$ -
28	430S-B	P.C. CONCRETE CURB & GUTTER (FINE GRADING)	3091	LF		$ -
29	432S-4	NEW P.C. CONCRETE SIDEWALK, 4 INCH THICKNESS	673	SF		$ -
30	432S-6	NEW P.C. CONCRETE SHARED USE PATH, 6 INCH THICKNESS	39212	SF		$ -
31	432S-RP-1	P.C. SIDEWALK CURB RAMP WITH PAVERS (TYPE 1)	6	EA		$ -
32	432S-RP-1B	P.C. SIDEWALK CURB RAMP WITH PAVERS (TYPE 1B)	6	EA		$ -

PROJECT: **1710-194 Neenah Ave Widening** **BIDDER:** _____

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BID ITEM	TECH SPEC1	DESCRIPTION	BID QUANTITY	UNIT MEASURE	UNIT COST	AMOUNT BID
33	433S-C	TYPE II P.C. CONCRETE DRIVEWAYS	9076	SF		$ -
34	433S-GRAVEL	8" THICK COMPACTED GRAVEL DRIVEWAY (3"-5" STONE)	2580	SF		$ -
35	434S	6 INCH P.C. CONCRETE MEDIANS AND ISLANDS	1200	SF		$ -
36	470S-R	CURB CUTS FOR SIDEWALK RAMPS	312	LF		$ -
37	504S-1RM	REPOSITIONING & ADJUSTING WATER METERS	1	EA		$ -
38	506S 4-4	MINOR MANHOLE HEIGHT ADJUSTMENT, 4 FOOT DIA.	1	EA		$ -
39	506S 2-4	MAJOR MANHOLE HEIGHT ADJUSTMENT, 4 FOOT DIA.	2	EA		$ -
40	508S-I47	4-SIDED AREA INLET (7'X7')	1	EA		$ -
41	508S-I10S	INLET, STANDARD (10')	2	EA		$ -
42	508S-I15S	INLET, STANDARD (15')	1	EA		$ -
43	509S-1	TRENCH SAFETY PROTECTIVE SYSTEMS (ALL DEPTHS)	456	LF		$ -
44	510-ASD18	PIPE, 18-INCH DIA. RCP CLASS III (ALL DEPTHS), INCLUDING EXCAVATION & BACKFILL COMPLETE IN PLACE AS DETAILED AND SPECIFIED	24	LF		$ -
45	510-ASD36	PIPE, 36-INCH DIA. RCP CLASS III (ALL DEPTHS), INCLUDING EXCAVATION & BACKFILL COMPLETE IN PLACE AS DETAILED AND SPECIFIED	205	LF		$ -
46	551	PIPE UNDERDRAINS (6" PVC)	97	LF		$ -
47	559S-5X3	PRECAST CONCRETE BOX CULVERTS, 5 FT.X 3 FT.	64	LF		$ -
48	559S-12X4	PRECAST CONCRETE BOX CULVERTS, 12 FT.X 4 FT.	30	LF		$ -

PROJECT: **1710-194 Neenah Ave Widening** **BIDDER:** _____

Full compensation for compliance with each and every provision of the Request for Bids, the Bid, the Specifications, and the Contract will be considered as included in the unit prices for the work set forth below, and no separate payment will be made for compliance with each and every provision of the Request for Bids, the Bid, the Specifications, and the Contract, unless separate payment is expressly provided for therein.

BID ITEM	TECH SPEC1	DESCRIPTION	BID QUANTITY	UNIT MEASURE	UNIT COST	AMOUNT BID
49	559S-A	CAST IN PLACE CONCRETE BOX CULVERTS	23	CY		$ -
50	591S-A	DRY ROCK RIPRAP	490	SY		$ -
51	591S-F-5	5" CONCRETE RIPRAP (HEADWALLS) COMPLETE IN PLACE AS DETAILED AND SPECIFIED	174	SY		$ -
52	602S-A	BERMUDA SODDING	1678	SY		$ -
53	602S-B	ST AUGUSTINE SODDING	1678	SY		$ -
54	604S-D	SEEDING FOR EROSION CONTROL	7453	SY		$ -
55	605S-A	SOIL RETENTION BLANKET, CLASS 1, TYPE C	19459	SY		$ -
56	609S-A	TOPSOIL AND SEEDBED PREP	10773	SY		$ -
57	609S-C	NATIVE GRASSLANDS FOR EROSION CONTROL	10773	SY		$ -
58	609S-F	WATERING	47	KGAL		$ -
59	609S-G	MANAGEMENT PRACTICES	10773	SY		$ -
60	610S-A	PROTECTIVE FENCING TYPE A CHAIN LINK FENCE	3286	LF		$ -
61	610S-D	TREE WELL (TREE PROTECTION)	7	EA		$ -
62	610S-R	REMOVAL OF EXISTING TREE	65	EA		$ -
63	620S-A	FILTER FABRIC	287	SY		$ -
64	623S	DRY STACK ROCK WALL (RET. WALL P)	500	SF		$ -

PROJECT: **1710-194 Neenah Ave Widening** **BIDDER:** _____

Full compensation for compliance with each and every provision of the Request for Bids, the Bid, the Specifications, and the Contract will be considered as included in the unit prices for the work set forth below, and no separate payment will be made for compliance with each and every provision of the Request for Bids, the Bid, the Specifications, and the Contract, unless separate payment is expressly provided for therein.

BID ITEM	TECH SPEC1	DESCRIPTION	BID QUANTITY	UNIT MEASURE	UNIT COST	AMOUNT BID
65	628S-B	SEDIMENT CONTAINMENT DIKES WITH FILTER FABRIC	270	LF		$ -
66	632S	STORM INLET SEDIMENT TRAP	243	CF		$ -
67	639S	ROCK BERM	244	LF		$ -
68	641S	STABILIZED CONSTRUCTION ENTRANCE	2	EA		$ -
69	642S	SILT FENCE FOR EROSION CONTROL	4757	LF		$ -
70	648S	MULCH SOCK	509	LF		$ -
71	703S	SAFETY FENCE	275	LF		$ -
72	722S-A	PROTECTIVE COATING (NEW STRUCTURES) - TO COVER EXPOSED CONC. OR ROCK SURFACES	1	LS		$ -
73	803S-MO	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO		$ -
74	824S	TRAFFIC SIGNS	34	EA		$ -
75	827S-A	BICYCLE LANE AHEAD SIGN	1	EA		$ -
76	827S-B	BICYCLE LANE ENDS SIGN	1	EA		$ -
77	829S-A	TYPE I BICYCLE LANE MARKINGS 6 INCHES IN WIDTH, WHITE IN COLOR	1694	LF		$ -
78	829S-B	TYPE I BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	2	EA		$ -
79	829S-C	TYPE I BICYCLE LANE (BIKE RIDER) SYMBOL, WHITE IN COLOR	4	EA		$ -
80	829S-E	TYPE II BICYCLE LANE MARKINGS 6 INCHES IN WIDTH, WHITE IN COLOR	1694	LF		$ -

PROJECT: **1710-194 Neenah Ave Widening** **BIDDER:** _____

Full compensation for compliance with each and every provision of the Request for Bids, the Bid, the Specifications, and the Contract will be considered as included in the unit prices for the work set forth below, and no separate payment will be made for compliance with each and every provision of the Request for Bids, the Bid, the Specifications, and the Contract, unless separate payment is expressly provided for therein.

BID ITEM	TECH SPEC1	DESCRIPTION	BID QUANTITY	UNIT MEASURE	UNIT COST	AMOUNT BID
81	829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	2	EA		$ -
82	829S-G	TYPE II BICYCLE LANE (BIKE RIDER) SYMBOL, WHITE IN COLOR	4	EA		$ -
83	835S-LT2	INSTALLING TRAFFIC SIGNAL CONDUIT WITH CONDUIT 2 INCH IN DIA.	10	LF		$ -
84	844S-1	CLASS 1 TRENCHING FOR TRAFFIC SIGNAL CONDUIT	10	LF		$ -
85	863S-2	REFLECTORIZED PAVEMENT MARKERS (TYPE I-C)	164	EA		$ -
86	863S-3	REFLECTORIZED PAVEMENT MARKERS (TYPE II A-A)	135	EA		$ -
87	870S-A24W	WORK ZONE PAVEMENT MARKINGS (REMOVABLE), 24 INCHES IN WIDTH, WHITE IN COLOR	810	LF		$ -
88	870S-B4Y	WORK ZONE PAVEMENT MARKINGS (NON-REMOVABLE), 4 INCHES IN WIDTH, YELLOW IN COLOR	8402	LF		$ -
89	871S-A4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, YELLOW IN COLOR (SOLID)	5710	LF		$ -
90	871S-A4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, YELLOW IN COLOR (BROKEN)	2017	LF		$ -
91	871S-A4WB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, WHITE IN COLOR (BROKEN)	2720	LF		$ -
92	871S-A8WS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 8 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	240	LF		$ -
93	871S-A12YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 12 INCHES IN WIDTH, YELLOW IN COLOR (SOLID)	359	LF		$ -
94	871S-A12WS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 12 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	879	LF		$ -
95	871S-A24WS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 24 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	24	LF		$ -
96	871S-C	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS, LEFT ARROW, WHITE IN COLOR	2	EA		$ -

PROJECT: **1710-194 Neenah Ave Widening** **BIDDER:** _____

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BID ITEM	TECH SPEC1	DESCRIPTION	BID QUANTITY	UNIT MEASURE	UNIT COST	AMOUNT BID
97	871S-C	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS, LEFT ARROW, YELLOW IN COLOR	12	EA		$ -
98	871S-B	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS, 'ONLY', WHITE IN COLOR	1	EA		$ -
99	871S-E4YB	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, YELLOW IN COLOR (SOLID)	5710	LF		$ -
100	871S-E4YS	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, YELLOW IN COLOR (BROKEN)	2017	LF		$ -
101	871S-E4WB	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, WHITE IN COLOR (BROKEN)	2720	LF		$ -
102	871S-E8WS	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 8 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	240	LF		$ -
103	871S-E12YS	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 12 INCHES IN WIDTH, YELLOW IN COLOR (SOLID)	359	LF		$ -
104	871S-E12WS	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 12 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	879	LF		$ -
105	871S-E24WS	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS 24 INCHES IN WIDTH, WHITE IN COLOR (SOLID)	24	LF		$ -
106	871S-G	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS, LEFT ARROW, WHITE IN COLOR	2	EA		$ -
107	871S-G	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS, LEFT ARROW, YELLOW IN COLOR	12	EA		$ -
108	871S-F	REFLECTORIZED TYPE II THERMOPLASTIC PAVEMENT MARKINGS, 'ONLY', WHITE IN COLOR	1	EA		$ -
109	874S-A4	ELMININATING EXISTING PAVEMENT MARKINGS; 4 INCHES IN WIDTH	8690	LF		$ -
110	874S-A12	ELMININATING EXISTING PAVEMENT MARKINGS; 12 INCHES IN WIDTH	321	LF		$ -
111	16550S	STREET LIGHT STANDARD FOUNDATION	1	EA		$ -
112	432-6045	RIPRAP (MOW STRIP)(4 IN)	24.8	CY		$ -

PROJECT: **1710-194 Neenah Ave Widening** **BIDDER:** _____

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BID ITEM	TECH SPEC1	DESCRIPTION	BID QUANTITY	UNIT MEASURE	UNIT COST	AMOUNT BID
113	450-6051	PEDESTRIAN RAILING (TXDOT PRD-13 TYPE E)	593	LF		$ -
114	466-6154	WINGWALL (FW-0)(HW=7 FT), COMPLETE IN PLACE AS DETAILED AND SPECIFIED	1	EA		$ -
115	466-6169	WINGWALL (FW-S)(HW=8 FT), COMPLETE IN PLACE AS DETAILED AND SPECIFIED	2	EA		$ -
116	466-6210	WINGWALL (SW-0)(HW=7 FT), COMPLETE IN PLACE AS DETAILED AND SPECIFIED	1	EA		$ -
117	467-6175	SET (TY I)(S= 5 FT)(HW= 3 FT)(3:1) (C), COMPLETE IN PLACE AS DETAILED AND SPECIFIED	2	EA		$ -
118	467-6448	SET (TY II)(36 IN)(RCP)(3:1)(C), COMPLETE IN PLACE AS DETAILED AND SPECIFIED	1	EA		$ -
119	506-6003	ROCK FILTER DAM (INSTALL) (TY 3)	189	LF		$ -
120	506-6011	ROCK FILTER DAM (REMOVE)	189	LF		$ -
121	540-6001	MTL W-BEAM GD FEN (TIM POST)	788	LF		$ -
122	540-6016	DOWNSTREAM TERMINAL ANCHOR SECTION	2	EA		$ -
123	540-6020	MTL W-BEAM GD FEN (LOW FILL CULVERT)	50	LF		$ -
124	544-6001	GUARDRAIL END TREATMENT (INSTALL)	2	EA		$ -
125	550-6001	CHAIN LINK FENCE (INSTALL)(6')	275	LF		$ -
126	550-6012	CHAIN LINK FENCE GATE (INSTALL)(6'X16')	1	EA		$ -
127	658-6047	INSTL OM ASSM (OM-2Y)(WC)GND	4	EA		$ -
128	658-6048	INSTL OM ASSM (OM-2Z)(FLX)GND	4	EA		$ -

PROJECT: **1710-194 Neenah Ave Widening** **BIDDER:** _____

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BID ITEM	TECH SPEC1	DESCRIPTION	BID QUANTITY	UNIT MEASURE	UNIT COST	AMOUNT BID
129	658-6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	16	EA		$ -
130	WC9031	DIVERSION AND CARE OF WATER	12	MO		$ -
131	WC9032	WATER QUALITY AND DETENTION POND	1	EA		$ -
132	WC9033	CONCRETE WASHOUT AREA	1	EA		$ -
133	432S-A	P.C. CONCRETE CURB AND GUTTER (INCLUDING REMOVAL AND REPLACEMENT)	70	LF		$ -
134	504S-1WM	REPOSITIONING & ADJUST WATER METER BOX TO GRADE	1	EA		$ -
135	506S-4WW	MAJOR MANHOLE HEIGHT ADJUSTMENT	2	EA		$ -
136	506S-4WW	MINOR MANHOLE HEIGHT ADJUSTMENT	1	EA		$ -
137	509S-1	TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS (ALL DEPTHS)	171	LF		$ -
138	510-AW1.5K	PIPE, 1.5" DIAMETER, COPPER TYPE K (ALL DEPTHS) INCLUDES EXCAVATION AND BACKFILL	50	LF		$ -
139	510-AWRJ6	FACTORY RESTRAINED JOINT PIPE, 6" DIAMETER, DI CL 350 (ALL DEPTHS) INCLUDES EXCAVATION AND BACKFILL	35	LF		$ -
140	510-AWRJ8	FACTORY RESTRAINED JOINT PIPE, 8" DIAMETER, DI CL 350 (ALL DEPTHS) INCLUDES EXCAVATION AND BACKFILL	55	LF		$ -
141	510-AWRJ12	FACTORY RESTRAINED JOINT PIPE, 12" DIAMETER, DI CL 350 (ALL DEPTHS) INCLUDES EXCAVATION AND BACKFILL	31	LF		$ -
142	510-BW-8	CONNECTION NEW 8" SERVICE TO EXISTING 8" WATER VAULT, WITH FOSTER ADAPTOR	2	EA		$ -
143	510-BW 2x2	CONNECTING NEW SINGLE 1.5" SERVICE TO EXISTING PRIVATE SERVICE	2	EA		$ -
144	510-JW 12x6	WET CONNECTIONS, 12" DIA. x 6" DIA.	3	EA		$ -

PROJECT: 1710-194 Neenah Ave Widening **BIDDER:** _____

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BID ITEM	TECH SPEC1	DESCRIPTION	BID QUANTITY	UNIT MEASURE	UNIT COST	AMOUNT BID
145	510-JW 12x8	WET CONNECTIONS, 12" DIA. x 8" DIA.	1	EA		$ -
146	510-JW 12x12	WET CONNECTIONS, 12" DIA. x 12" DIA.	2	EA		$ -
147	510-KW	DUCTILE IRON FITTINGS	0	TON		$ -
148	511S-A6	VALVES, GATE VALVE, 6" DIAMETER	4	EA		$ -
149	511S-A12	VALVES, GATE VALVE, 12" DIAMETER	1	EA		$ -
150	511S-B	FIRE HYDRANT (511S-17)	3	EA		$ -
151	SP504S-GV6	REMOVE VALVE, 6"	1	EA		$ -
NON-BID ITEMS TO BE INCLUDED IN BID AND CONTRACT AMOUNT. DO NOT MAKE CHANGES TO THIS SECTION.						
152	999-WC01	FORCE ACCOUNT	15000	DOL	$ 1.00	$ 15,000.00
153	999-WC02	FORCE ACCOUNT (CAVE/VOID MITIGATION)	50000	DOL	$ 1.00	$ 50,000.00

TOTAL AMOUNT OF BID

$ 65,000.00

_____ **Dollars and** _____ **Cents**

NOTE: THE COURT MAY EITHER REJECT ALL BIDS OR AWARD A CONTRACT TO THE LOWEST AND BEST BID.

BID AFFIDAVIT

This form must be completed, signed, notarized and returned with Bid package

The undersigned attests that the company named below, under the provisions of Subtitle F, Title 10, Texas Government Code Chapter 2270:

1. Does not boycott Israel currently; and
2. Will not boycott Israel during the term of the contract.

Pursuant to Section 2270.001, Texas Government Code:

1. "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and
2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.

The undersigned certifies that the IFB and the Bidder's Bid have been carefully reviewed and are submitted as correct and final. Bidder further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Bid, and upon the conditions contained in the IFB.

I hereby certify that the foregoing Bid has not been prepared in collusion with any other Bidder or other person or persons engaged in the same line of business prior to the official opening of this Bid. Further, I certify that the Bidder is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Bid on, or to influence any person or persons to submit a Bid or not to submit a Bid thereon."

Name of Bidder:	
Address of Bidder:	
Email:	
Telephone:	
Printed Name of Person Submitting Affidavit:	
Signature of Person Submitting Affidavit:	

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Bid will in no way have a negative impact on the County's evaluation of the Bid.

☐	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Bidder agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared _____ (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, _____, (*Name of Signer*) am a duly authorized officer of/agent for _____ (*Name of Bidder*) and have been duly authorized to execute the foregoing on behalf of the said _____ (*Name of Bidder*).

SUBSCRIBED AND SWORN to before me by the above-named _____

on this the _____ day of _____, 20_____.

_____

Notary Public in and for

The State of _____

The County of _____

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

This questionnaire is being filed in accordance with chapter 176 of the Local Government Code by a person doing business with the governmental entity.

By law this questionnaire must be filed with the records administrator of the local government not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1 **Name of person doing business with local governmental entity.**

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.**

(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than September 1 of the year for which an activity described in Section 176.006(a), Local Government Code, is pending and not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)

3 **Describe each affiliation or business relationship with an employee or contractor of the local governmental entity who makes recommendations to a local government officer of the local governmental entity with respect to expenditure of money.**

4 **Describe each affiliation or business relationship with a person who is a local government officer and who appoints or employs a local government officer of the local governmental entity that is the subject of this questionnaire.**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ
Page 2

5

Name of local government officer with whom filer has affiliation or business relationship.
(Complete this section only if the answer to A, B, or C is YES.)

This section, item 5 including subparts A, B, C & D, must be completed for each officer with whom the filer has affiliation or other relationship. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer named in this section receiving or likely to receive taxable income from the filer of the questionnaire?

☐ Yes ☐ No

B. Is the filer of the questionnaire receiving or likely to receive taxable income from or at the direction of the local government officer named in this section AND the taxable income is not from the local governmental entity?

☐ Yes ☐ No

C. Is the filer of this questionnaire affiliated with a corporation or other business entity that the local government officer serves as an officer or director, or holds an ownership of 10 percent or more?

☐ Yes ☐ No

D. Describe each affiliation or business relationship.

6. Describe any other affiliation or business relationship that might cause conflict of interest:

7

Signature of person doing business with the governmental entity	Date

Signature not required if completing in BIDSYNC electronically.

Bidder References

List the last (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this IFB package, were recently provided by Bidder.

Reference 1

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Reference 2

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Reference 3

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Question and Answers for Bid #1710-194 - Neenah Avenue Widening

Overall Bid Questions
There are no questions associated with this bid.

Commissioners Court - Regular Session **40.**

Meeting Date: 10/17/2017

Advertisement Approval IFB 1710-195 Portland Cement

Submitted For: Randy Barker **Submitted By:** Thomas Skiles, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take appropriate action on authorizing the Purchasing Agent to advertise and receive sealed bids for Portland Cement under IFB # 1710-195.

Background

Williamson County is seeking to purchase Type I and Type II Portland Cement, conforming to Texas Department of Transportation Departmental Materials Specifications DMS-4600 “Hydraulic Cement” from qualified companies.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Bid Packet

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	10/11/2017 04:13 PM
County Judge Exec Asst.	Wendy Coco	10/11/2017 04:31 PM
Form Started By: Thomas Skiles		Started On: 10/11/2017 09:33 AM
Final Approval Date: 10/11/2017		

Solicitation 1710-195

Portland Cement

Bid Designation: Public

Williamson County, Texas

Bid 1710-195
Portland Cement

Bid Number	1710-195
Bid Title	Portland Cement
Bid Start Date	In Held
Bid End Date	Nov 8, 2017 3:00:00 PM CST
Question & Answer End Date	Nov 3, 2017 5:00:00 PM CDT
Bid Contact	Blake Skiles Purchasing Specialist III 512-**943**-1478 blake.skiles@wilco.org
Contract Duration	**1 year**
Contract Renewal	2 annual renewals
Prices Good for	**1 year**
Bid Comments	**Williamson County is seeking to purchase Type I and Type II Portland Cement, conforming to Texas Department of Transportation Departmental Materials Specifications DMS-4600 "Hydraulic Cement", from qualified companies.**

Item Response Form

Item	**1710-195-01-01** - Please Attach All Documents To This Line
Quantity	**1 each**

Prices are not requested for this item.

Delivery Location **Williamson County, Texas**

No Location Specified

Qty 1

Description
Please Attach All Documents To This Line

PUBLIC ANNOUNCEMENT AND GENERAL INFORMATION

WILLIAMSON COUNTY PURCHASING DEPARTMENT
SOLICITATION 1710-195
Portland Cement

BIDS MUST BE RECEIVED ON OR BEFORE:
Nov 8, 2017 3:00:00 PM CST

BIDS WILL BE PUBLICLY OPENED:
Nov 8, 2017 3:00:00 PM CST

Notice is hereby given that sealed Bids for the above-mentioned goods and/or services will be accepted by the Williamson County Purchasing Department. Williamson County uses BidSync to distribute and receive bids. Specifications for this IFB may be obtained by registering at www.bidsync.com.

Williamson County prefers and requests electronic submittal of this Bid.

All electronic bids must be submitted via: www.bidsync.com

Electronic bids are requested, however paper bids will currently still be received, until further notice and may be mailed or delivered to the address listed below.

Bidders are strongly encouraged to carefully read this entire IFB.

All interested Bidders are invited to submit a Bid in accordance with the Instructions and General Requirements, Bid Format, Bid Specifications, and Definitions, Terms and Conditions stated in this IFB.

Please note that a complete package must be submitted choosing one of the above two methods. Split packages submitted will be considered "unresponsive" and will not be accepted or evaluated.

Williamson County will not accept any Bids received after the submittal deadline, and shall return such Bids unopened to the Bidder.

General Information:

- If mailed or delivered in person, Bids and Bid addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed above for this IFB, to:

  Williamson County Purchasing Department
  Attn: **BID NAME AND NUMBER**
  901 South Austin Avenue
  Georgetown, Texas 78626

  - Bidders should list the Bid Number, Bid Name, Name and Address of Bidder, and the Date of the Bid opening on the outside of the box or envelope and note "Sealed Bid Enclosed."
  - Bidder should submit one (1) original.
  - Williamson County will NOT be responsible for unmarked or improperly marked envelopes.
  - Williamson County will not accept any responsibility for Bids being delivered by third party carriers.
  - Facsimile transmittals will NOT be accepted.

- Bids will be opened publicly in a manner; however, to avoid public disclosure of contents only the names and of Bidders and prices will be read aloud.

- All submitted questions with their answers will be posted and updated on www.bidsync.com.

- It is the Bidder's responsibility to review all documents in BidSync, including any Addenda that may have been added after the document packet was originally released and posted.

  - Any Addenda and/or other information relevant to the IFB will be posted on www.bidsync.com.

  - The Williamson County Purchasing Department takes no responsibility to ensure any interested Bidder has obtained any outstanding addenda or additional information.

Williamson County – Invitation for Bid (IFB)

SECTION 1 - DEFINITIONS

Addendum/Addenda – means any written or graphic instruments issued by the County prior to the consideration of Bids which modify or interpret the Bid Documents by additions, deletions, clarifications, or corrections.

Agreement/Ensuing Agreement(s) – means the Successful Bidder may be required by the County to sign an additional Agreement containing terms necessary to ensure compliance with the IFB and the Bidder's Bid. Such Ensuing Agreement(s) shall contain the Bid specifications, terms and conditions that are derived from the IFB.

Bid Documents – means the Legal Notice, IFB including attachments, and any Addenda issued by the County prior to the consideration of any Bids.

Bid – means the completed and signed bid form, (sometimes referred to as the Price Sheet), and ALL required forms and documentation listed in the IFB package which have been submitted in accordance with the terms and conditions described in the IFB package. A Bid submitted in accordance with this IFB is irrevocable during the specified period for evaluation and acceptance of Bids unless a waiver is obtained from the Williamson County Purchasing Agent.

Bidder – means a person or entity who submits a Bid in response to this IFB.

Contract – means this IFB and the Bid of the Successful Bidder shall become a Contract between the Successful Bidder and the County once the Successful Bidder's Bid is properly accepted by the Williamson County Commissioners Court.

Commissioner's Court – means the Williamson County Commissioners Court.

County – means Williamson County, a political subdivision of the State of Texas.

Invitation for Bid (IFB) – means this document, together with the attachments thereto and any future Addenda issued by the County.

Successful Bidder – means the liable Bidder to whom the County intends to award the Contract.

SECTION 2 - BID FORMAT AND SUBMISSION

2.1 ORGANIZATION OF BID CONTENTS FOR SUBMITTAL

Each Bid should be organized and items submitted in the order described below:

A. Transmittal Letter. Please see Section 2.3, Transmittal Letter, for more information.

B. Price Sheet.

C. Conflict of Interest Questionnaire. Please see Section 2.2, Conflict of Interest, for more information in regards to this. Please note that even if you deem there to be no Conflict of Interest, this signed questionnaire must be included in your package.

D. References. Please see Section 3.15, References, for more information.

E. Bid Affidavit.

F. Form 1295. Please see Section 2.4, Certificate of Interested Parties – Form 1295.

2.2 CONFLICT OF INTEREST

No public official shall have interest in a Contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code, Title 5, Subtitle C, Chapter 171, as amended.

As of January 1, 2006, all Bidders are responsible for complying with Local Government Code, Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County's website at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en US/Default.aspx

Each Bidder must disclose any existing or potential conflict of interest relative to the performance of the requirements of this IFB. **Examples of potential conflicts of interest may include an existing business or personal relationship between the Bidder, its principal, or any affiliate or subcontractor with the County or any other entity or person involved in any way with the project that is subject to this IFB**. Similarly, any personal or business relationship between the Bidder, the principals, or any affiliate or subcontractor with any employee, or official of the County or its suppliers must be disclosed. Any such relationship that might be perceived or represented as a conflict must be disclosed. Failure to disclose any such relationship or reveal personal relationships with the County employees or officials may be cause for termination.

The County will decide if an actual or perceived conflict should result in Bid disqualification.

By submitting a Bid in response to this IFB, all Bidders affirm they have not given, nor intend to give, at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a the County public servant or any employee, official or representative of same, in connection with this procurement.

Each Bidder must provide a Conflict of Interest Statement with their Bid Package. Package may be deemed incomplete without this form.

2.3 TRANSMITTAL LETTER

The Bidder should submit a Transmittal Letter that provides the following information:

A. Name and address of individual or business entity submitting the Bid.

B. Name, physical address, email address, business and fax number of the Bidder's principal contact person regarding all contractual matters relating to this IFB.

C. The Bid's Federal Employer Identification Number.

D. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.36, Air Quality for more information.

2.4 CERTIFICATE OF INTERESTED PARTIES – FORM 1295

As of January 1, 2016, all Successful Bidders are responsible for complying with the Texas Government Code, Section 2252.908. The law states that the County may not enter into certain contracts with a Bidder unless the Bidder submits a disclosure of interested parties to the County at the time the Bidder submits the signed Contract. The law applies only to a Contract of the County on or after January 1, 2016 that either:

A. Requires an action or vote by the Commissioners Court before the Contract may be signed (all contracts that fall under the jurisdiction of the Commissioners Court approval, such as contracts resulting from an Initiation for Bid (IFB), RFP, Request for Qualifications (RFQ), etc., excluding, but not limited to, certain Juvenile Service contracts, contracts funded with Sheriff's seized fun monies, etc.); or
B. Has a value of at least $1,000,000.

By January 1, 2016, the Texas Ethics Commission will make available on its website, a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

A Respondent must:

A. Use the online application to process the required information on Form 1295.

B. Print a copy of the form which will contain a unique certification number.

C. An authorized agent of the Bidder must sign the printed copy of the form.

D. Have the form notarized.

E. File the completed Form 1295 and certification of filing (scanning and emailing form is sufficient) with Williamson County Purchasing Agent at the time the signed Contract is submitted for approval.

After the Commissioners Court award of the Contract, the County shall notify the Texas Ethics Commission, using the Texas Ethics Commission's filing application, of the receipt of the filed Form 1295 and certification of filing not later than the 30th day after the date the Contract binds all parties to the Contract. The Texas Ethics Commission will post the completed Form 1295 to its website within seven business days after receiving notice from the County.

2.5 ETHICS

The Bidder shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official or agent of the County.

2.6 BID SUBMITTAL DEADLINE

The Bid is due no later than the submittal date and time set forth in the Public Announcement and General Information listed in this IFB package. Contents of each Bid shall be submitted in accordance with this IFB.

2.7 DELIVERY OF BIDS

The County uses BidSync to distribute and receive Bids and proposals. It is preferred that Bids submitted electronically through BidSync; however, Bidders can submit a hard copy.

Refer to www.bidsync.com for further information on how to submit electronically.

If mailed or delivered in person, Bids and Bid Addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed in this IFB package, to:

Williamson County Purchasing Department
Attn: **Bid Name and Number**
901 South Austin Avenue
Georgetown, Texas 78626

Also, all Bidders should list their Name and Address, and the Date of the Bid opening on the outside the box or envelope and note "Sealed Bid Enclosed." The County will not accept any Bids received after the submittal deadline, and shall return such Bids unopened to the Bidder. The County will not accept any responsibility for Bids being delivered by third party carriers.

Bids will be opened publically and the names of Bidders and pricing will be read aloud.

SECTION 3 - INSTRUCTIONS AND GENERAL REQUIREMENTS

3.1 INSTRUCTIONS

Read this document carefully, and follow all instructions and requirements. All Bidders are responsible for fulfilling all requirements and specifications. Be sure to have a clear understanding of this IFB.

General requirements apply to all advertised IFBs; however, these may be superseded, in whole or in part, by the bid specifications, Addenda and modifications issued as a part of this IFB. Be sure your Bid package is complete.

3.2 AMBIGUITY, CONFLICT, OR OTHER ERRORS IN THIS IFB

If a Bidder discovers any ambiguity, conflict, discrepancy, omission or other error in this IFB, the Bidder shall immediately notify the County Purchasing Department of such error in writing and request modification or clarification of the document.

Modifications will be made by issuing Addenda. If the Bidder fails to notify the County prior to the date and time fixed for submission of Bids of an error or ambiguity in the IFB known to the Bidder, or an error or ambiguity that reasonably should have been known to the Bidder, then the Bidder shall be deemed to have waived the error or ambiguity or its later resolution.

The County may also modify the IFB, no later than forty-eight (48) hours prior to the date and time fixed for submission of Bids, by issuance of an Addendum. All Addenda will be numbered consecutively, beginning with one (1).

3.3 NOTIFICATION OF MOST CURRENT ADDRESS

All Bidders in receipt of this IFB shall notify the Williamson County Purchasing Department of any address changes, contact person changes, and/or telephone number changes no later than forty-eight (48) hours prior to the date and time fixed for submission of Bids.

3.4 SIGNATURE OF BIDDER

A. If the Bidder is a Corporation or Limited Liability Company, the legal name of the Corporation Limited Liability Company shall be provided together with the signature of the officer or officers authorized to sign on behalf of such entity.

B. If the Bidder is a General Partnership, the true name of the firm shall be provided with the signature of each partner authorized to sign.

C. If the Bidder is a Limited Partnership, the name of the Limited Partner's General Partner shall provided with the signature of the officer authorized to sign on behalf of the General Partner.

D. If the Bidder is a Sole Proprietor(s) (individual), each Sole Proprietor(s) shall sign.

E. If signature is by an agent, other than the Sole Proprietor(s) or an officer of a Corporation, Limited Liability Company, General Partner or a member of a General Partnership, a power of attorney equivalent document must be submitted to the Williamson County Purchasing Department.

3.5 ASSUMED BUSINESS NAME

If the Bidder operates business under an Assumed Business Name, the Bidder must have on file with the

Williamson County Clerk a current Assumed Name Certificate and provide a file marked copy of same.

3.6 BID OBLIGATION

The contents of the IFB, Bid, and any clarification thereof submitted by the Successful Bidder shall become part of the contractual obligation and incorporated by reference into the Contract and any Ensuing Agreement(s).

3.7 COMPLIANCE WITH IFB SPECIFICATIONS

It is intended that this IFB describe the requirements and the Bid format in sufficient detail to secure comparable Bids. Failure to comply with all provisions of the IFB may, at the sole discretion of the County, result in disqualification.

3.8 WITHDRAWAL OF BID

The Bidder may withdraw its Bid by submitting a written request with the company letterhead and the signature of an authorized individual, as described in Section 3.4, Signature of Bidder, to the Williamson County Purchasing Department any time prior to the submission deadline.

The Bidder may submit a new Bid prior to the deadline. Alterations of the Bid in any manner will not be considered if submitted after the deadline. Withdrawal of a Bid after the deadline will be subject to written approval of the Williamson County Purchasing Agent.

3.9 EVALUATION AND AWARD

The County reserves the right to use all pertinent information (also learned from sources other than disclosed in the Bid process) that might affect the County's judgment as to the appropriateness of award to the lowest and best evaluated Bid. This information may be appended to the Bid evaluation process results. Information on a Bidder from reliable sources, and not within the Bidder's Bid, may also be noted and made part of the evaluation file. The County shall have sole discretion for determining the reliability of the source.

To ensure the proper and fair evaluation of a solicitation, the County prohibits unsolicited communication initiated by the Bidder to the County Official or Employee evaluating or considering the Bids prior to the time an award has been made. Unsolicited communication may be ground for disqualifying the offending Bidder from consideration or award of the solicitation, or any future solicitation.

Communication between the Bidder and the County will be initiated by the appropriate County Official Employee in order to obtain information or clarification needed to develop a proper and accurate evaluation of the solicitation.

The County intends to award a Contract to the most responsible and responsive Bidder whose Bid will be most advantageous to the County. In accordance with Texas Government Code and Local Government Code, the County may consider, to the extent allowed by law, the following:

A. Price;
B. The Bidder's experience and reputation;
C. Quality of the Bidder's goods and/or services;
D. The Bidder's safety record;
E. The Bidder's proposed personnel;
F. The Bidder's financial capabilities; and
G. Any other relevant factors specifically listed in this IFB or authorized by law.

3.10 CONDISERATION OF LOCATION OF PRINCIPAL OFFICE

Pursuant to Texas Local Government Code, Section 271.905, in purchasing any real property or personal property that is not affixed to real property, if the County receives one or more Bids from a Bidder whose principal place of business is in Williamson County and whose Bid is within three (3) percent of the lowest Bid price received by the County from a Bidder who is not a resident of Williamson County, the County may enter into a contract with:

A. The lowest Bidder; or the Bidder whose principal place of business is in Williamson County if the Commissioners Court determines, in writing, that the local Bidder offers the County the best combination of contract price and additional economic development opportunities Williamson County created by the contract award, including the employment of residents Williamson County and increased tax revenues to Williamson County.

It is understood that the Commissioners Court of Williamson County, Texas, reserves the right to accept or reject any and/or all Bids for any or all goods and/or services covered in this IFB, and to waive informalities or defects in the Bid or to accept such Bid, if it shall deem to be in the best interest of the County.

Awards should be made approximately sixty (60) business days after the Bid opening date. Results may be obtained by viewing the Williamson County vendor portal at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/SearchforaPastBid/tabid/5213/language/en-US/Default.aspx

3.11 RESPONSIBILITY

It is expected that a prospective Bidder will be able to affirmatively demonstrate responsibility. A prospective Bidder should be able to meet the following requirements:

A. Have adequate financial resources, or the ability to obtain such resources as required;
B. Be able to comply with the required or proposed delivery schedule;
C. Have a satisfactory record of performance that can be determined thru references provided; and
D. Be otherwise qualified and eligible to receive an award.

The County may request representation and other information sufficient to determine the Bidder's ability to meet these minimum standards listed above.

3.12 FIRM PRICING

For unit price items, all of the items listed are to be on a "per unit" basis, stating a firm price per unit or unit quantity of each item. The Bidder must submit a firm price that must be good from the date of Bid opening for the fixed period of time set out in this IFB. Unless the IFB expressly states otherwise, this period shall be until the end of the Initial Contract Period.

Bids which do not state a fixed price, or which are subject to change without notice, will not be considered. The Court may award a Contract for the period implied or expressly stated in the lowest and best Bid.

3.13 PURCHASE ORDERS

If required by the Williamson County Purchasing Department, a purchase order(s) may be generated to the Successful Bidder for goods and/or services. If a purchase order is issued, the purchase order number must appear on all itemized invoices and/or requests for payment.

3.14 SILENCE OF SPECIFICATIONS

The apparent silence of these specifications as to any detail or to the apparent omission from it of a

detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

3.15 REFERENCES

The County may require the Bidder to supply a list of at least three (3) references where like services and/or goods have been supplied by their firm within the past five (5) years, to include names, titles, phone numbers and email addresses of key personnel, and dates of performance.

The County may contact some or all of the references in order to determine the Respondent performance record on work similar to that described in this RFP. The County reserves the right to contact references other than those provided in the response and to use the information gained from them in the evaluation process.

References, if requested, should be provided in accordance with this IFB. Bid may not be deemed complete without the inclusion of requested references.

SECTION 4 - TERMS AND CONDITIONS

4.1 VENUE AND GOVERNING LAW

The Bidder hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this IFB, the Contract and any Ensuing Agreement(s), shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this IFB, the Contract and any Ensuing Agreement(s) is governed by the laws of the United States, this IFB, the Contract and any Ensuing Agreement(s) shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

4.2 INCORPORATION BY REFERENCE AND PRECEDENCE

A. The Contract shall be derived from the IFB and its Addenda (if applicable), and the Bidder's Bid. In the event of a dispute under the Contract, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The IFB and its Addenda (if applicable); and

   2. The Bidder's Bid.

B. In the event the County requires that an Ensuing Agreement be executed following award and a dispute arises between the terms and conditions of the Ensuing Agreement, the IFB and its Addenda (if applicable), and the Bidder's Bid, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. Terms and conditions of the Ensuing Agreement;

   2. The IFB its Addenda; and

   3. The Bidder's Bid.

4.3 OWNERSHIP OF BID

Each Bid shall become the property of the County upon submittal and will not be returned to Bidders unless received after the submittal deadline.

4.4 DISQUALIFICATION OF BIDDER

Upon signing and submittal of the Bid, a Bidder offering to sell supplies, materials, services, or equipment to the County, certifies that the Bidder has not violated the antitrust laws of the State of Texas codified in Business & Commerce Code, Section 15.01, or the Federal Antitrust Laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged in such line of business. Any or all Bids may be rejected if the County believes that collusion exists among the Bidders.

4.5 FUNDING

The County intends to budget and make sufficient funds available and authorize funds for expenditure to finance the costs of the Contract. All Bidders understand and agree that the County's payment of amounts under the Contract shall be contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to make payments under this Contract.

4.6 ASSIGNMENT, SUCCESSORS AND ASSIGNS

The Successful Bidder may not assign, sell, or otherwise transfer the Contract or any other rights or interests obtained under the Contract without written permission of the Commissioners Court. The Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the contracting parties hereto and their respective successors and permitted assigns.

4.7 IMPLIED REQUIREMENTS

Products or services not specifically described or required in the IFB, but are necessary to provide the functional capabilities described by the Bidder, shall be implied and deemed to be included in the Bid.

4.8 TERMINATION

A. **Termination for Cause:** The County reserves the right to terminate the Contract and/or any Ensuing Agreement(s) for default if the Successful Bidder breaches any of the Bid specifications, terms and conditions, including warranties of the Bidder, if any, or if the Successful Bidder becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies the County may have at law or in equity or as may otherwise provided hereunder. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all other requirements to the County's satisfaction, and/or to meet all other obligations and requirements.

B. **Termination for Convenience:** The County may terminate the Contract and/or any Ensuing Agreement(s) for convenience and without cause or further liability, upon no less than thirty (30) calendar days written notice to the Successful Bidder. The County reserves the right to extend this period if it is in the best interest of the County. In the event the County exercises its right to terminate without cause, it is understood and agreed that only the amounts due to the Successful Bidder for goods, commodities and/or services provided and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for the County termination for convenience.

4.9 NON-PERFORMANCE

It is the objective of the County to obtain complete and satisfactory performance of the requirements set forth herein. In addition to any other remedies available at law, in equity or that may be set out herein, failure to perform may result in a deduction of payment equal to the amount of the goods and/or services that were not provided and/or performed to the County's satisfaction.

In the event of such non-performance, the County shall have the right, but shall not be obligated, to complete the services itself or by others and/or purchase the goods from other sources. If the County elects to acquire the goods or perform the services itself or by others, pursuant to the foregoing, the Successful Bidder shall reimburse the County, within ten (10) calendar days of demand, for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting the nonperformance which the Successful Bidder fails to meet pursuant to the requirements set out herein. In the event the Successful Bidder refuses to reimburse the County as set out in this provision, the County shall have the right to deduct such reimbursement amounts from any amounts that may be then owing or that may become owing in the future to the Successful Bidder.

4.10 PROPRIETARY INFORMATION AND THE TEXAS PUBLIC INFORMATION ACT

All material submitted to the County shall become public property and subject to the Texas Public Information Act upon receipt. If a Bidder does not desire proprietary information in the Bid to be

disclosed, each page must be clearly identified and marked proprietary at time of submittal or, more preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary. Failure to clearly identify and mark information as being proprietary as set forth under this provision will result in all unmarked information being deemed non-proprietary and available to the public. For all information that has not been clearly identified and marked as proprietary by the Bidder, the County may choose to place such information on the County's website and/or a similar public database without obtaining any type of prior consent from the Bidder.

The County will, to the extent allowed by law, endeavor to protect from public disclosure the information that has been identified and marked as proprietary. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General.

To the extent, if any, that any provision in this IFB or in the Bidder's Bid is in conflict with Texas Government Code, Chapter 552, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood, and agreed, that the County, and its officers and employees, may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to the County as to whether or not the same are available to the public. It is further understood that the County, and its officers and employees, shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that the County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to the County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

4.11 RIGHT TO AUDIT

The Successful Bidder agrees that the County or its duly authorized representatives shall, until the expiration of three (3) years after termination or expiration of the services to be performed, have access to and the right to examine and photocopy any and all books, documents, papers and records of the Successful Bidder, which are directly pertinent to the services to be performed or goods to be delivered for the purposes of making audits, examinations, excerpts and transcriptions. The Successful Bidder agrees that the County shall have access during normal working hours to all necessary facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give the Successful Bidder reasonable advance notice of intended audits.

4.12 TESTING AND INSPECTIONS

The County reserves the right to inspect and test equipment, supplies, materials and goods for quality and compliance with this IFB, and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the County can deem the Bidder to be in breach and terminate the Contract and/or any Ensuing Agreement(s).

4.13 BID PREPARATION COSTS

The cost of developing Bids is the sole responsibility of the Bidders and shall not be charged to the County. There is no expressed or implied obligation for the County to reimburse the Bidders for any expense incurred in preparing a Bid in response to this IFB and the County will not reimburse the Bidders for such expenses.

4.14 INDEMNIFICATION

The Successful Bidder shall indemnify, defend and save harmless, the County, its officials, employees, agents and agent's employees from, and against, all claims, liability, and expenses including reasonable attorneys' fees, arising from activities of the Bidder, its agents, servants or employees, performed

hereunder that result from the negligent act, error, or omission of the Bidder or any of the Bidder agents, servants or employees, as well as all claims of loss or damage to the Bidder's and the County property, equipment, and/or supplies.

Furthermore, the County, its officials, employees, agents and agents' employees shall not be liable for damages to the Successful Bidder arising from any act of any third party, including, but not limited to, theft. The Successful Bidder further agrees to indemnify, defend and save harmless, the County from its officials, employee, agents and agents' employees against all claims of whatever nature arising from any accident, injury, or damage whatsoever, caused to any person, or the property of any person, occurring in relation to the Successful Bidder's performance of any services requested hereunder during the term of the Contract and/or any Ensuing Agreement(s).

The Successful Bidder shall timely report all claims, demands, suits, actions, proceedings, liens or judgements to the County and shall, upon the receipt of any claim, demand, suit, action, proceeding, lien or judgement, not later than the fifteenth (15th) day of each month; provide the County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of the County required by the Successful Bidder in the defense of each matter. The Successful Bidder's duty to defend, indemnify and hold the County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of the Contract and/or any Ensuing Agreement(s), unless otherwise agreed by the County in writing. The provisions of this section shall survive the termination of the Contract and shall remain in full force and effect with respect to all such matters no matter when they arise.

In the event of any dispute between the parties, as to whether a claim, demand, suit, action, proceeding, lien or judgement, that appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of the County, the Bidder shall nevertheless fully defend such claim, demand, suit or action, proceeding, lien or judgement, until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of the Bidder are not an issue in the matter.

The Successful Bidder's indemnification shall cover, and the Successful Bidder agrees to, indemnify the County, in the event the County is found to have been negligent for having selected the Successful Bidder to perform the work described in this request. The provision by the Successful Bidder of insurance shall not limit the liability of the Successful Bidder under the Contract and/or any Ensuing Agreement(s).

4.15 WAIVER OF SUBROGATION

The Successful Bidder and the Successful Bidder's insurance carrier waive any and all rights whatsoever with regard to subrogation against the County as an indirect party to any suit arising out of personal or property damages resulting from the Bidder's performance under this Contract and any Ensuing Agreement(s).

4.16 RELATIONSHIP OF THE PARTIES

The Successful Bidder shall be an independent contractor and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions herein which may appear to give the County the right to direct the Successful Bidder as to details of doing work herein covered, or to exercise a measure of control over the work, shall be deemed to mean that the Successful Bidder shall follow the desires of the County in the results of the work only. The County shall not retain or have the right to control the Successful Bidder's means, methods or details pertaining to the Successful Bidder's performance of the work. The County and the Successful Bidder hereby agree and declare that the Successful Bidder is an independent contractor and as such meets the qualifications of an "Independent Contractor" under Texas Workers Compensation Act, Texas Labor Code, Section 406.141, that the Successful Bidder is not an employee of the County, and that the Successful Bidder and its employees, agents and subcontractors shall not be entitled to workers compensation coverage or any other type of insurance coverage held by the County.

4.17 SOLE PROVIDER

The Successful Bidder agrees and acknowledges that it shall not be considered a sole provider of the goods and/or services described herein and that the County may contract with other providers of such goods and/or services if the County deems, at its sole discretion, that multiple providers of the same goods and/or services will serve the best interest of the County.

4.18 FORCE MAJEURE

If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

4.19 SEVERABILITY

If any provision of this IFB, the Contract or any Ensuing Agreement(s) shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision thereof, but rather the entire IFB, Contract or any Ensuing Agreement (s) will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this IFB, the Contract or any Ensuing Agreement(s) is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this IFB, the Contract or any Ensuing Agreement(s) and be deemed to be validated and enforceable.

4.20 EQUAL OPPORTUNITY

Neither party shall discriminate against any employee or applicant for employment because of race, color, sex, religion or national origin.

4.21 NOTICE

Any notice to be given shall be in writing and may be distributed by personal delivery, or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

The County: Williamson County Purchasing Department
Attn: Purchasing Agent
901 South Austin Avenue
Georgetown, Texas 78626

The Bidder: Address set out in Bidder's Transmittal Letter.

Notices given in accordance with this provision shall be effective upon (1) receipt by the party to which notice is given, or (2) on the third (3rd) calendar day following mailing, whichever occurs first.

4.22 SALES AND USE TAX EXEMPTION

The County is a body, corporate and politic, under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code, Section 151.309, as amended, and the services and/or goods subject hereof are being secured for use by the County.

4.23 COMPLIANCE WITH LAWS

The County and the Successful Bidder shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any Ensuing Agreement(s), including, without limitation, Workers' Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the Successful Bidder shall furnish the County with certification of compliance with said laws, statues, ordinances, rules, regulations, orders, and decrees above specified.

4.24 INCORPORATION OF EXHIBITS, APPENDICES AND ATTACHMENTS

All of the Exhibits, Appendices and Attachments referred to herein are incorporated by reference as if set forth verbatim herein. Any conflicting terms in the Contract documents will be resolved at the sole discretion of the Commissioners Court.

4.25 NO WAIVER OF IMMUNITIES

Nothing herein shall be deemed to waive, modify or amend any legal defense available at law or in equity to the County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. The County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

4.26 NO WAIVER

The failure or delay of any party to enforce at any time or any period of time any of the provisions of this IFB, the Contract or any Ensuing Agreement(s) shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

4.27 CURRENT REVENUES

The obligations of the parties under the Contract and any Ensuing Agreement(s) do not constitute a general obligation or indebtedness of the County for which the County is obligated to levy, pledge, or collect any of taxation. It is understood and agreed that the County shall have the right to terminate the Contract and any Ensuing Agreement(s) at the end of any the County fiscal year if the governing body of the County does not appropriate sufficient funds as determined by the County's budget for the fiscal year in question. The County may effect such termination by giving written notice of termination to the Successful Bidder at the end of its then-current fiscal year.

4.28 FOB DESTINATION

To the extent applicable to this IFB, all of the items listed are to be Free On Board to final destination (FOB Destination) with all transportation charges if applicable to be included in the Bid, unless otherwise specified in the Invitation for Bids. The title and risk of loss of the goods shall not pass to the County until receipt and acceptance takes place at the FOB Destination point.

4.29 BINDING EFFECT

This Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the parties

and their respective permitted assigns and successors.

4.30 ASSIGNMENT

The Successful Bidder's interest and duties hereunder may not be assigned or delegated to a third party without the express written consent of the County.

4.31 SAFETY

The Successful Bidder is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with any services to be provided hereunder. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

4.32 GENERAL OBLIGATIONS AND RELIANCE

The Successful Bidder shall perform all services and/or provide all goods, as well as those reasonably inferable and necessary for completion and provision of services and/or goods required hereunder. The Successful Bidder shall keep the County informed of the progress and quality of the services. The Successful Bidder agrees and acknowledges that the County is relying on the Successful Bidder's represented expertise and ability to provide the goods and/or services described herein. The Successful Bidder agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of the County accordance with the County's requirements and procedures. The Successful Bidder's duties, set forth herein, shall at no time be in any way diminished by reason of any approval by the County, n shall the Successful Bidder be released from any liability by reason of such approval by the County, it being understood that the County at all times is ultimately relying upon the Successful Bidder's skill and knowledge in performing the services and providing any goods required hereunder.

4.33 ESTIMATED QUANTITIES

To the extent applicable to this IFB, the estimated quantity of each item listed in this IFB is only estimate; the actual quantity to be purchased may be more or less. The County is not obligated purchase any minimum amount, and the County may purchase any reasonable amount greater than t estimate for the same unit price. Any limit on quantities available must be stated expressly in the Bid.

4.34 CONTRACTUAL DEVELOPMENT

The contents of the IFB and the Successful Bidder's Bid will become an integral part of the Contract, but may be modified, at the County's sole discretion, by provisions of an Ensuing Agreement. Therefore, the Bidder must agree to an inclusion of an Ensuing Agreement of the Bid specifications, terms and conditions of this IFB. If an Ensuing Agreement is required under this IFB, information relative to t Agreement will be located in the Special Provisions Section of this IFB.

4.35 SURVIVABILITY

All applicable agreements that were entered into between the Successful Bidder and the County, under the terms and conditions of the Contract and/or any Ensuing Agreement(s), shall survive the expiration or termination thereof for ninety (90) days unless a new contract has been awarded.

The County may exercise, by written notice to the Successful Bidder no later than ten (10) calendar days of the Contract expiration, this clause for emergencies only.

4.36 AIR QUALITY

In determining the overall best Bid, the County may, to the extent applicable, exercise the option granted to local governments under the Texas Local Government Code, Section 271.907.

This option allows the County to evaluate Bids and give preference to goods and/or services of a Bidder that demonstrates that the Bidder meets or exceeds any and all state or federal environmental standards, including voluntary standards, relating to air quality. If the Bid being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Bidder is encouraged to provide information in narrative indicating the anticipated air quality impact. All Bidders are expected to meet all mandated state and federal air quality standards.

4.37 ENTIRE AGREEMENT

The Contract and any Ensuing Agreement(s) shall supersede all prior Agreements, written or oral between the Successful Bidder and the County and shall constitute the entire Agreement and understanding between the parties with respect to the services and/or goods to be provided. Each of the provisions herein shall be binding upon the parties and may not be waived, modified, amended or altered, except by writing signed by the Successful Bidder and the County.

4.38 PAYMENT

The County's payment for goods and services shall be governed by the Texas Government Code, Chapter 2251. An invoice shall be deemed overdue the thirty-first (31st) day after the later of the following:

A. The date the County receives the goods under the Contract;
B. The date the performance of the service under the Contract is completed; or
C. The date the Williamson County Auditor receives an invoice for the goods or services.

Interest charges for any overdue payments shall be paid by the County in accordance with Texas Government Code, Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of the County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one (1) percent, and the prime rate published in the Wall Street Journal on the first (1st) day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by the Successful Bidder, the County shall notify the Successful Bidder of the error not later than the twenty-first (21st) day after the date the County receives the invoice. If the error is resolved in favor of the Successful Bidder, the Successful Bidder shall be entitled to receive interest on the unpaid balance of the invoice submitted by the Successful Bidder beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, the Successful Bidder shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by the Texas Government Code, Chapter 2251, if the corrected invoice is not paid by the appropriate date.

As a minimum, invoices shall include:

A. Name, address, and telephone number of the Successful Bidder and similar information in the event the payment is to be made to a different address.

B. The County Contract, Purchase Order.

C. Identification of items or service as outlined in the Contract.

D. Quantity or quantities, applicable unit prices, total prices and total amount.

E. Any additional payment information which may be called for by the Contract.

Payment inquiries should be directed to the following address:

Williamson County Auditor's Office, Accounts Payable Department
Email: accountspayable@wilco.org
Phone: 512-943-1500

4.39 CONTRACTUAL FORMATION AND ENSUING AGREEMENT

The IFB and the Bidder's Bid, when properly accepted by the Commissioners Court, shall constitute a Contract equally binding between the Successful Bidder and the County.

If an Ensuing Agreement is required by this IFB, that information will be provided in Special Provisions section of this IFB. The Successful Bidder shall be required to execute the Agreement at the Williamson County Purchasing Department approximately ten (10) calendar days after the Successful Bidder is notified of award. The Ensuing Agreement shall be in the same form as the Agreement which is attached to the end of this IFB. The only anticipated changes in the Ensuing Agreement will be to include additional exhibits, to fill in blanks to identify the Successful Bidder, and terms relating to the compensation, or to revise the Agreement to accommodate corrections, changes in the scope of services, or changes pursuant to Addenda issued. **Bidders should raise any questions regarding the terms of the Agreement in the form of written questions or submittals as described in the Public Announcement and General Information portion of this IFB.** Because the signed Ensuing Agreement will be substantively and substantially derived from the attached Agreement, each Bidder is urged to seek independent legal counsel as to any questions about the terms, conditions or provisions contained in the Agreement *before* submitting a Bid. Again, the attached Agreement, if applicable, contains important legal provisions and is considered part and parcel of this IFB. Failure or refusal to sign aforesaid Agreement shall be grounds for the County to revoke any award which has been issued, forfeit Bid security, if applicable, and select another Bidder.

4.40 COOPERATIVE PURCHASING PROGRAM

During the term of the Contract resulting from this IFB, the County would like to afford the same prices, terms and conditions to other political subdivisions or public entities. Another entity's participation in the Contract resulting from this IFB is subject to a properly authorized Purchasing Cooperative Inter-local Agreement with the County. Any liability created by purchase orders issued against the Contract shall be the sole responsibility of the governmental agency placing the order.

4.41 INSURANCE REQUIREMENTS

To the extent applicable Insurance information will appear in the Additional Stipulations section that is in this IFB Package.

4.42 BIDDERS BOND, WARRANTY BOND, PERFORMANCE AND PAYMENT BONDS

To the extent applicable Bond information will appear in the Additional Stipulations section that is in this IFB Package.

4.43 LEGAL LIABILITY INFORMATION

The Successful Bidder shall disclose all legal liability information by listing any pending litigation anticipated litigation that your firm is involved in including, but not limited to, potential or actual legal matters with private parties and any local, state, federal or international governmental entities. The County reserves the right to consider legal liability information in the recommendation of any proposed

contract to the Commissioners Court.

4.44 INCLEMENT WEATHER

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a Bid submission deadline, the Bid closing will automatically be postponed until the next business day the County is open. If inclement weather conditions or any other unforeseen event causes delays in carrier service operations, the County may issue an Addendum to all known Bidders interested in the project to extend the deadline. It will be the responsibility of the Bidder to notify the County of their interest in the project if these conditions are impacting their ability to turn in a submission within the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

4.45 CONFIDENTIALITY

The Bidder expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

GENERAL NOTES AND TECHNICAL SPECIFICATIONS

General Information

Williamson County is seeking to purchase Type I/II Portland Cement, from qualified companies and conforming to Texas Department of Transportation Departmental Materials Specifications DMS-4600 "Hydraulic Cement", Effective date: June 2011 (Formerly DMS-4600 the Hydraulic Cement Quality Monitoring Program, or HCQMP).

The cement must be bid as Item Picked Up and Item Delivered separately for both bulk supply and bags. Location is an important factor in evaluation of Bids, due to transportation costs which must be taken into consideration. **It is expected that the bagged cement will be picked up at plant site by Williamson County and bulk cement shall be delivered to the project site.** However, there will be times when the County may require bagged material to be delivered. For this reason, the County is requesting separate Bids for each item.

The County is not obligated to purchase any minimum amount and the County may purchase any reasonable amount for the same unit price. Items will be ordered on an "As Needed" basis.

Williamson County reserves the right to award the bid in whole to one vendor or to award a contract on each separate item or combination of items as may be most advantageous to the County. A primary, secondary, tertiary, and/or subsequent award may be made for this bid by the County.

It is expressly understood and agreed that in case Williamson County should need any item(s) not available within the time frame needed from the successful vendor(s) during the term of this contract, the County reserves the right to purchase the item(s) from vendors other than the successful vendor(s) and shall not be in violation of any terms or conditions of said contract.

Provide three (3) references where like services have been performed by your firm. Include name of firm, address, telephone number and name of representative.

Definition of Terms

County: Williamson County acting by and through Williamson County Road and Bridge Division

Vendor: Successful bidder(s) of the attached invitation to bid

Engineer: Director of Road and Bridge Division

Inspector: Employee of Williamson County supplied part time or full time to the vendor's crew for the selection, prosecution, and quality control of the materials. Should the work, as well as the geographical location allow, the County may supply one foreman for multiple crews.

Specifications: Texas Department of Transportation Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges 2014 and most recent corresponding Special Provisions and Department Material Specifications.

DMS – 4600: The Texas Department of Transportation Departmental Materials Specification for Hydraulic Cement (Formerly DMS-4600 the Hydraulic Cement Quality Monitoring Program, or HCQMP).

ASTM C 150: American Society for Testing and Materials Standard Specification for Portland Cement

AASHTO M 85: American Association of State Highway and Transportation Officials Standard Specification for Portland Cement.

MPL: Material Producer List established and maintained by the CST/M&P of all materials conforming to the requirements of this Specification. Materials appearing on the MPL, entitled “Hydraulic Cement,” require no further testing, unless deemed necessary by the Engineer or CST/M&P.

Department: Road and Bridge Division of Williamson County

Control of Materials

Source Control. Use only materials that meet Contract requirements. Unless otherwise specified or approved, use new materials for the items. Secure the Engineer’s approval of the proposed source of materials to be used before their pick up or delivery. Materials can be approved at a supply source or staging area but may be re-inspected.

Material Quality. Correct or remove materials that fail to meet the contract requirements, pay for cost incurred if additional sampling and testing is required by a change of source.
Materials not meeting Contract requirements will be rejected, unless the Engineer approves corrective actions. Upon rejection, immediately remove and replace rejected materials.
If the Vendor does not comply with this Article, the County may remove and replace defective material. The cost of testing, removal, and replacement will be deducted from invoice.

Manufacturer Warranties. Transfer to the County warranties and guarantees required by the Vendor or received as part of normal trade practice.

Plant Inspection and Testing. The Engineer or Inspector may, but is not obligated to, inspect materials at the acquisition or manufacturing source. Material samples may be obtained and tested for compliance with quality requirements. Materials produced under County inspection are for County use only unless released in writing by the Engineer.

If inspection is at the plant, Vendor must meet the following conditions unless otherwise specified:

- Cooperate fully and assist the Engineer or Inspector during the inspection
- Ensure the Engineer has full access to all parts of the plant used to manufacture or produce materials
- In accordance with pertinent items and the Contract, provide a facility at the plant for use by the Engineer or Inspector as an office or laboratory.
- Provide and maintain adequate safety measures and restroom facilities.
- Furnish and calibrate scales, measuring devices, and other necessary equipment.

The Engineer or Inspector may provide inspection for periods other than daylight hours if:

- Continuous production of materials for County use is necessary due to the production volume being handled at the plant and
- The lighting is adequate to allow satisfactory inspection.

General Notes

All products furnished under the provision of the Contract shall comply with requirements which pertain to the various items of work included herein as *Standard Specifications for Construction of Highways, Streets and Bridges* of the Texas Department of Transportation, adopted November, 2014, and as amended and/or updated through special provisions, which is incorporated herein by

reference for all purposes. In the event that any requirement provided herein conflicts with the referenced Specifications, the requirements herein shall control and govern.

Cement shall be stored in closed, weatherproof containers.

Cement will be measured by the ton (dry weight) or cubic foot when applicable. When cement is furnished in trucks, the weight of cement will be determined on certified scales, or the Vendor must provide a set of standard platform truck scales at a location approved by the Engineer. Scales must conform to the requirements of Item 520, “Weighing and Measuring Equipment” of the Specifications.

When cement is furnished in bags, indicate the manufacturer’s certified weight. Bags varying more than 5% from that weight may be rejected. The average weight of bags in any shipment, as determined by weighing 10 bags taken at random, must be at least the manufacturer’s certified weight.

Cement will be paid for at the unit price bid for “Portland Type I/II Cement”. This price is full compensation for materials, delivery, equipment, labor, tools, and incidentals, unless otherwise noted.

Vendor shall comply with insurance requirements dictated within this contract.

ITEM 275 – Cement Treatment (Road Mixed)

ITEM 276 – Cement Treatment (Plant Mixed)

ITEM 421 – Hydraulic Cement Concrete

Vendor shall comply with all requirements pertaining to cement, in the above items. At the time this document was created, no Special Provisions were provided by the Texas Department of Transportation.

WILLIAMSON COUNTY

CEMENT FOR WILLIAMSON COUNTY UNIFIED ROAD AND BRIDGE SYSTEM

NAME OF Vendor: _____

Mailing Address: _____

City: _____ State: _____ Zip:_____

Email Address: _____

Telephone: (_____) _____ Fax: (_____) _____ _____

Mobile Phone: (_____) _____

ITEM #	DESCRIPTION	UNIT	EXPECTED QUANTITY	UNIT PRICING – DELIVERED TO CENTRAL MAINTENANCE FACILITY[1]	UNIT PRICING DELIVERED TO PROJECT SITE WITHIN WILCO AND SPREAD	UNIT PRICING - PICKED UP
1	Portland Cement Type I/II	Ton	3,500			
2	Portland Cement Type I/II	Bag[2]	200			

Note 1: Wilco Central Maintenance Facility, Road and Bridge, 3151 SE Inner Loop, Georgetown, TX 78627
Note 2: Bag size shall be 94 lb.

_____ Date: _____
Signature of Person Authorized to Sign

Printed Name and Title of Signer: _____

BID AFFIDAVIT

This form must be completed, signed, notarized and returned with Bid package

The undersigned attests that the company named below, under the provisions of Subtitle F, Title 10, Texas Government Code Chapter 2270:

1. Does not boycott Israel currently; and
2. Will not boycott Israel during the term of the contract.

Pursuant to Section 2270.001, Texas Government Code:

1. "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and
2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.

The undersigned certifies that the IFB and the Bidder's Bid have been carefully reviewed and are submitted as correct and final. Bidder further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Bid, and upon the conditions contained in the IFB.

I hereby certify that the foregoing Bid has not been prepared in collusion with any other Bidder or other person or persons engaged in the same line of business prior to the official opening of this Bid. Further, I certify that the Bidder is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Bid on, or to influence any person or persons to submit a Bid or not to submit a Bid thereon."

Name of Bidder:	
Address of Bidder:	
Email:	
Telephone:	
Printed Name of Person Submitting Affidavit:	
Signature of Person Submitting Affidavit:	

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Bid will in no way have a negative impact on the County's evaluation of the Bid.

☐	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Bidder agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared _____ (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, _____, (*Name of Signer*) am a duly authorized officer of/agent for _____ (*Name of Bidder*) and have been duly authorized to execute the foregoing on behalf of the said _____ (*Name of Bidder*).

SUBSCRIBED AND SWORN to before me by the above-named _____

on this the _____ day of _____, 20_____.

_____

Notary Public in and for

The State of _____

The County of _____

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

This questionnaire is being filed in accordance with chapter 176 of the Local Government Code by a person doing business with the governmental entity.

By law this questionnaire must be filed with the records administrator of the local government not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1 **Name of person doing business with local governmental entity.**

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.**

(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than September 1 of the year for which an activity described in Section 176.006(a), Local Government Code, is pending and not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)

3 **Describe each affiliation or business relationship with an employee or contractor of the local governmental entity who makes recommendations to a local government officer of the local governmental entity with respect to expenditure of money.**

4 **Describe each affiliation or business relationship with a person who is a local government officer and who appoints or employs a local government officer of the local governmental entity that is the subject of this questionnaire.**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ
Page 2

5 **Name of local government officer with whom filer has affiliation or business relationship.**
(Complete this section only if the answer to A, B, or C is YES.)

This section, item 5 including subparts A, B, C & D, must be completed for each officer with whom the filer has affiliation or other relationship. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer named in this section receiving or likely to receive taxable income from the filer of the questionnaire?

☐ Yes ☐ No

B. Is the filer of the questionnaire receiving or likely to receive taxable income from or at the direction of the local government officer named in this section AND the taxable income is not from the local governmental entity?

☐ Yes ☐ No

C. Is the filer of this questionnaire affiliated with a corporation or other business entity that the local government officer serves as an officer or director, or holds an ownership of 10 percent or more?

☐ Yes ☐ No

D. Describe each affiliation or business relationship.

6. Describe any other affiliation or business relationship that might cause conflict of interest:

7

Signature of person doing business with the governmental entity	Date

Signature not required if completing in BIDSYNC electronically.

Bidder References

List the last (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this IFB package, were recently provided by Bidder.

Reference 1

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Reference 2

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Reference 3

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Question and Answers for Bid #1710-195 - Portland Cement

Overall Bid Questions
There are no questions associated with this bid.

Commissioners Court - Regular Session **41.**

Meeting Date: 10/17/2017

Advertisement Approval IFB 1710-196 Crushed Granite Base

Submitted For: Randy Barker **Submitted By:** Thomas Skiles, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take appropriate action on authorizing the Purchasing Agent to advertise and receive sealed bids for Crushed Granite Base under IFB # 1710-196.

Background

Williamson County is seeking qualified companies to provide Crushed Granite Base, picked up at plant site or delivered to Williamson County Central Maintenance Facility in Georgetown, TX.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Bid Packet

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	10/11/2017 04:14 PM
County Judge Exec Asst.	Wendy Coco	10/11/2017 04:31 PM
Form Started By: Thomas Skiles		Started On: 10/11/2017 09:35 AM
Final Approval Date: 10/11/2017		

Solicitation 1710-196

Crushed Granite Base

Bid Designation: Public

Williamson County, Texas

Bid 1710-196
Crushed Granite Base

Bid Number	1710-196
Bid Title	Crushed Granite Base
Bid Start Date	In Held
Bid End Date	Nov 8, 2017 3:30:00 PM CST
Question & Answer End Date	Nov 3, 2017 5:00:00 PM CDT
Bid Contact	Blake Skiles Purchasing Specialist III 512-**943**-1478 blake.skiles@wilco.org
Contract Duration	**1 year**
Contract Renewal	2 annual renewals
Prices Good for	**1 year**
Bid Comments	**Williamson County is seeking qualified companies to provide for the purchase of Crushed Granite Base, picked up at plant site or delivered to Williamson County Central Maintenance Facility in Georgetown, TX.**

Item Response Form

Item	**1710-196-01-01** - Please Attach All Documents To This Line
Quantity	**1 each**

Prices are not requested for this item.

Delivery Location **Williamson County, Texas**

No Location Specified

Qty 1

Description
Please Attach All Documents To This Line

PUBLIC ANNOUNCEMENT AND GENERAL INFORMATION

WILLIAMSON COUNTY PURCHASING DEPARTMENT
SOLICITATION 1710-196
Crushed Granite Base

BIDS MUST BE RECEIVED ON OR BEFORE:
Nov 8, 2017 3:30:00 PM CST

BIDS WILL BE PUBLICLY OPENED:
Nov 8, 2017 3:30:00 PM CST

Notice is hereby given that sealed Bids for the above-mentioned goods and/or services will be accepted by the Williamson County Purchasing Department. Williamson County uses BidSync to distribute and receive bids. Specifications for this IFB may be obtained by registering at www.bidsync.com.

Williamson County prefers and requests electronic submittal of this Bid.

All electronic bids must be submitted via: www.bidsync.com

Electronic bids are requested, however paper bids will currently still be received, until further notice and may be mailed or delivered to the address listed below.

Bidders are strongly encouraged to carefully read this entire IFB.

All interested Bidders are invited to submit a Bid in accordance with the Instructions and General Requirements, Bid Format, Bid Specifications, and Definitions, Terms and Conditions stated in this IFB.

Please note that a complete package must be submitted choosing one of the above two methods. Split packages submitted will be considered "unresponsive" and will not be accepted or evaluated.

Williamson County will not accept any Bids received after the submittal deadline, and shall return such Bids unopened to the Bidder.

General Information:

- If mailed or delivered in person, Bids and Bid addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed above for this IFB, to:

  Williamson County Purchasing Department
  Attn: **BID NAME AND NUMBER**
  901 South Austin Avenue
  Georgetown, Texas 78626

  - Bidders should list the Bid Number, Bid Name, Name and Address of Bidder, and the Date of the Bid opening on the outside of the box or envelope and note "Sealed Bid Enclosed."
  - Bidder should submit one (1) original.
  - Williamson County will NOT be responsible for unmarked or improperly marked envelopes.
  - Williamson County will not accept any responsibility for Bids being delivered by third party carriers.
  - Facsimile transmittals will NOT be accepted.

- Bids will be opened publicly in a manner; however, to avoid public disclosure of contents only the names and of Bidders and prices will be read aloud.

- All submitted questions with their answers will be posted and updated on www.bidsync.com.

- It is the Bidder's responsibility to review all documents in BidSync, including any Addenda that may have been added after the document packet was originally released and posted.

  - Any Addenda and/or other information relevant to the IFB will be posted on www.bidsync.com.

  - The Williamson County Purchasing Department takes no responsibility to ensure any interested Bidder has obtained any outstanding addenda or additional information.

Williamson County – Invitation for Bid (IFB)

SECTION 1 - DEFINITIONS

Addendum/Addenda – means any written or graphic instruments issued by the County prior to the consideration of Bids which modify or interpret the Bid Documents by additions, deletions, clarifications, or corrections.

Agreement/Ensuing Agreement(s) – means the Successful Bidder may be required by the County to sign an additional Agreement containing terms necessary to ensure compliance with the IFB and the Bidder's Bid. Such Ensuing Agreement(s) shall contain the Bid specifications, terms and conditions that are derived from the IFB.

Bid Documents – means the Legal Notice, IFB including attachments, and any Addenda issued by the County prior to the consideration of any Bids.

Bid – means the completed and signed bid form, (sometimes referred to as the Price Sheet), and ALL required forms and documentation listed in the IFB package which have been submitted in accordance with the terms and conditions described in the IFB package. A Bid submitted in accordance with this IFB is irrevocable during the specified period for evaluation and acceptance of Bids unless a waiver is obtained from the Williamson County Purchasing Agent.

Bidder – means a person or entity who submits a Bid in response to this IFB.

Contract – means this IFB and the Bid of the Successful Bidder shall become a Contract between the Successful Bidder and the County once the Successful Bidder's Bid is properly accepted by the Williamson County Commissioners Court.

Commissioner's Court – means the Williamson County Commissioners Court.

County – means Williamson County, a political subdivision of the State of Texas.

Invitation for Bid (IFB) – means this document, together with the attachments thereto and any future Addenda issued by the County.

Successful Bidder – means the liable Bidder to whom the County intends to award the Contract.

SECTION 2 - BID FORMAT AND SUBMISSION

2.1 ORGANIZATION OF BID CONTENTS FOR SUBMITTAL

Each Bid should be organized and items submitted in the order described below:

A. Transmittal Letter. Please see Section 2.3, Transmittal Letter, for more information.

B. Price Sheet.

C. Conflict of Interest Questionnaire. Please see Section 2.2, Conflict of Interest, for more information in regards to this. Please note that even if you deem there to be no Conflict of Interest, this signed questionnaire must be included in your package.

D. References. Please see Section 3.15, References, for more information.

E. Bid Affidavit.

F. Form 1295. Please see Section 2.4, Certificate of Interested Parties – Form 1295.

2.2 CONFLICT OF INTEREST

No public official shall have interest in a Contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code, Title 5, Subtitle C, Chapter 171, as amended.

As of January 1, 2006, all Bidders are responsible for complying with Local Government Code, Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County's website at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en US/Default.aspx

Each Bidder must disclose any existing or potential conflict of interest relative to the performance of the requirements of this IFB. **Examples of potential conflicts of interest may include an existing business or personal relationship between the Bidder, its principal, or any affiliate or subcontractor with the County or any other entity or person involved in any way with the project that is subject to this IFB**. Similarly, any personal or business relationship between the Bidder, the principals, or any affiliate or subcontractor with any employee, or official of the County or its suppliers must be disclosed. Any such relationship that might be perceived or represented as a conflict must be disclosed. Failure to disclose any such relationship or reveal personal relationships with the County employees or officials may be cause for termination.

The County will decide if an actual or perceived conflict should result in Bid disqualification.

By submitting a Bid in response to this IFB, all Bidders affirm they have not given, nor intend to give, at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a the County public servant or any employee, official or representative of same, in connection with this procurement.

Each Bidder must provide a Conflict of Interest Statement with their Bid Package. Package may be deemed incomplete without this form.

2.3 TRANSMITTAL LETTER

The Bidder should submit a Transmittal Letter that provides the following information:

A. Name and address of individual or business entity submitting the Bid.

B. Name, physical address, email address, business and fax number of the Bidder's principal contact person regarding all contractual matters relating to this IFB.

C. The Bid's Federal Employer Identification Number.

D. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.36, Air Quality for more information.

2.4 CERTIFICATE OF INTERESTED PARTIES – FORM 1295

As of January 1, 2016, all Successful Bidders are responsible for complying with the Texas Government Code, Section 2252.908. The law states that the County may not enter into certain contracts with a Bidder unless the Bidder submits a disclosure of interested parties to the County at the time the Bidder submits the signed Contract. The law applies only to a Contract of the County on or after January 1, 2016 that either:

A. Requires an action or vote by the Commissioners Court before the Contract may be signed (all contracts that fall under the jurisdiction of the Commissioners Court approval, such as contracts resulting from an Initiation for Bid (IFB), RFP, Request for Qualifications (RFQ), etc., excluding, but not limited to, certain Juvenile Service contracts, contracts funded with Sheriff's seized fun monies, etc.); or
B. Has a value of at least $1,000,000.

By January 1, 2016, the Texas Ethics Commission will make available on its website, a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

A Respondent must:

A. Use the online application to process the required information on Form 1295.

B. Print a copy of the form which will contain a unique certification number.

C. An authorized agent of the Bidder must sign the printed copy of the form.

D. Have the form notarized.

E. File the completed Form 1295 and certification of filing (scanning and emailing form is sufficient) with Williamson County Purchasing Agent at the time the signed Contract is submitted for approval.

After the Commissioners Court award of the Contract, the County shall notify the Texas Ethics Commission, using the Texas Ethics Commission's filing application, of the receipt of the filed Form 1295 and certification of filing not later than the 30th day after the date the Contract binds all parties to the Contract. The Texas Ethics Commission will post the completed Form 1295 to its website within seven business days after receiving notice from the County.

2.5 ETHICS

The Bidder shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official or agent of the County.

2.6 BID SUBMITTAL DEADLINE

The Bid is due no later than the submittal date and time set forth in the Public Announcement and General Information listed in this IFB package. Contents of each Bid shall be submitted in accordance with this IFB.

2.7 DELIVERY OF BIDS

The County uses BidSync to distribute and receive Bids and proposals. It is preferred that Bids submitted electronically through BidSync; however, Bidders can submit a hard copy.

Refer to www.bidsync.com for further information on how to submit electronically.

If mailed or delivered in person, Bids and Bid Addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed in this IFB package, to:

Williamson County Purchasing Department
Attn: **Bid Name and Number**
901 South Austin Avenue
Georgetown, Texas 78626

Also, all Bidders should list their Name and Address, and the Date of the Bid opening on the outside the box or envelope and note "Sealed Bid Enclosed." The County will not accept any Bids received after the submittal deadline, and shall return such Bids unopened to the Bidder. The County will not accept any responsibility for Bids being delivered by third party carriers.

Bids will be opened publically and the names of Bidders and pricing will be read aloud.

SECTION 3 - INSTRUCTIONS AND GENERAL REQUIREMENTS

3.1 INSTRUCTIONS

Read this document carefully, and follow all instructions and requirements. All Bidders are responsible for fulfilling all requirements and specifications. Be sure to have a clear understanding of this IFB.

General requirements apply to all advertised IFBs; however, these may be superseded, in whole or in part, by the bid specifications, Addenda and modifications issued as a part of this IFB. Be sure your Bid package is complete.

3.2 AMBIGUITY, CONFLICT, OR OTHER ERRORS IN THIS IFB

If a Bidder discovers any ambiguity, conflict, discrepancy, omission or other error in this IFB, the Bidder shall immediately notify the County Purchasing Department of such error in writing and request modification or clarification of the document.

Modifications will be made by issuing Addenda. If the Bidder fails to notify the County prior to the date and time fixed for submission of Bids of an error or ambiguity in the IFB known to the Bidder, or an error or ambiguity that reasonably should have been known to the Bidder, then the Bidder shall be deemed to have waived the error or ambiguity or its later resolution.

The County may also modify the IFB, no later than forty-eight (48) hours prior to the date and time fixed for submission of Bids, by issuance of an Addendum. All Addenda will be numbered consecutively, beginning with one (1).

3.3 NOTIFICATION OF MOST CURRENT ADDRESS

All Bidders in receipt of this IFB shall notify the Williamson County Purchasing Department of any address changes, contact person changes, and/or telephone number changes no later than forty-eight (48) hours prior to the date and time fixed for submission of Bids.

3.4 SIGNATURE OF BIDDER

A. If the Bidder is a Corporation or Limited Liability Company, the legal name of the Corporation Limited Liability Company shall be provided together with the signature of the officer or officers authorized to sign on behalf of such entity.

B. If the Bidder is a General Partnership, the true name of the firm shall be provided with the signature of each partner authorized to sign.

C. If the Bidder is a Limited Partnership, the name of the Limited Partner's General Partner shall provided with the signature of the officer authorized to sign on behalf of the General Partner.

D. If the Bidder is a Sole Proprietor(s) (individual), each Sole Proprietor(s) shall sign.

E. If signature is by an agent, other than the Sole Proprietor(s) or an officer of a Corporation, Limited Liability Company, General Partner or a member of a General Partnership, a power of attorney equivalent document must be submitted to the Williamson County Purchasing Department.

3.5 ASSUMED BUSINESS NAME

If the Bidder operates business under an Assumed Business Name, the Bidder must have on file with the

Williamson County Clerk a current Assumed Name Certificate and provide a file marked copy of same.

3.6 BID OBLIGATION

The contents of the IFB, Bid, and any clarification thereof submitted by the Successful Bidder shall become part of the contractual obligation and incorporated by reference into the Contract and any Ensuing Agreement(s).

3.7 COMPLIANCE WITH IFB SPECIFICATIONS

It is intended that this IFB describe the requirements and the Bid format in sufficient detail to secure comparable Bids. Failure to comply with all provisions of the IFB may, at the sole discretion of the County, result in disqualification.

3.8 WITHDRAWAL OF BID

The Bidder may withdraw its Bid by submitting a written request with the company letterhead and the signature of an authorized individual, as described in Section 3.4, Signature of Bidder, to the Williamson County Purchasing Department any time prior to the submission deadline.

The Bidder may submit a new Bid prior to the deadline. Alterations of the Bid in any manner will not be considered if submitted after the deadline. Withdrawal of a Bid after the deadline will be subject to written approval of the Williamson County Purchasing Agent.

3.9 EVALUATION AND AWARD

The County reserves the right to use all pertinent information (also learned from sources other than disclosed in the Bid process) that might affect the County's judgment as to the appropriateness of award to the lowest and best evaluated Bid. This information may be appended to the Bid evaluation process results. Information on a Bidder from reliable sources, and not within the Bidder's Bid, may also be noted and made part of the evaluation file. The County shall have sole discretion for determining the reliability of the source.

To ensure the proper and fair evaluation of a solicitation, the County prohibits unsolicited communication initiated by the Bidder to the County Official or Employee evaluating or considering the Bids prior to the time an award has been made. Unsolicited communication may be ground for disqualifying the offending Bidder from consideration or award of the solicitation, or any future solicitation.

Communication between the Bidder and the County will be initiated by the appropriate County Official Employee in order to obtain information or clarification needed to develop a proper and accurate evaluation of the solicitation.

The County intends to award a Contract to the most responsible and responsive Bidder whose Bid will be most advantageous to the County. In accordance with Texas Government Code and Local Government Code, the County may consider, to the extent allowed by law, the following:

A. Price;
B. The Bidder's experience and reputation;
C. Quality of the Bidder's goods and/or services;
D. The Bidder's safety record;
E. The Bidder's proposed personnel;
F. The Bidder's financial capabilities; and
G. Any other relevant factors specifically listed in this IFB or authorized by law.

3.10 CONDISERATION OF LOCATION OF PRINCIPAL OFFICE

Pursuant to Texas Local Government Code, Section 271.905, in purchasing any real property or personal property that is not affixed to real property, if the County receives one or more Bids from a Bidder whose principal place of business is in Williamson County and whose Bid is within three (3) percent of the lowest Bid price received by the County from a Bidder who is not a resident of Williamson County, the County may enter into a contract with:

A. The lowest Bidder; or the Bidder whose principal place of business is in Williamson County if the Commissioners Court determines, in writing, that the local Bidder offers the County the best combination of contract price and additional economic development opportunities Williamson County created by the contract award, including the employment of residents Williamson County and increased tax revenues to Williamson County.

It is understood that the Commissioners Court of Williamson County, Texas, reserves the right to accept or reject any and/or all Bids for any or all goods and/or services covered in this IFB, and to waive informalities or defects in the Bid or to accept such Bid, if it shall deem to be in the best interest of the County.

Awards should be made approximately sixty (60) business days after the Bid opening date. Results may be obtained by viewing the Williamson County vendor portal at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/SearchforaPastBid/tabid/5213/language/en-US/Default.aspx

3.11 RESPONSIBILITY

It is expected that a prospective Bidder will be able to affirmatively demonstrate responsibility. A prospective Bidder should be able to meet the following requirements:

A. Have adequate financial resources, or the ability to obtain such resources as required;
B. Be able to comply with the required or proposed delivery schedule;
C. Have a satisfactory record of performance that can be determined thru references provided; and
D. Be otherwise qualified and eligible to receive an award.

The County may request representation and other information sufficient to determine the Bidder's ability to meet these minimum standards listed above.

3.12 FIRM PRICING

For unit price items, all of the items listed are to be on a "per unit" basis, stating a firm price per unit or unit quantity of each item. The Bidder must submit a firm price that must be good from the date of Bid opening for the fixed period of time set out in this IFB. Unless the IFB expressly states otherwise, this period shall be until the end of the Initial Contract Period.

Bids which do not state a fixed price, or which are subject to change without notice, will not be considered. The Court may award a Contract for the period implied or expressly stated in the lowest and best Bid.

3.13 PURCHASE ORDERS

If required by the Williamson County Purchasing Department, a purchase order(s) may be generated to the Successful Bidder for goods and/or services. If a purchase order is issued, the purchase order number must appear on all itemized invoices and/or requests for payment.

3.14 SILENCE OF SPECIFICATIONS

The apparent silence of these specifications as to any detail or to the apparent omission from it of a

detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

3.15 REFERENCES

The County may require the Bidder to supply a list of at least three (3) references where like services and/or goods have been supplied by their firm within the past five (5) years, to include names, titles, phone numbers and email addresses of key personnel, and dates of performance.

The County may contact some or all of the references in order to determine the Respondent performance record on work similar to that described in this RFP. The County reserves the right to contact references other than those provided in the response and to use the information gained from them in the evaluation process.

References, if requested, should be provided in accordance with this IFB. Bid may not be deemed complete without the inclusion of requested references.

SECTION 4 - TERMS AND CONDITIONS

4.1 VENUE AND GOVERNING LAW

The Bidder hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this IFB, the Contract and any Ensuing Agreement(s), shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this IFB, the Contract and any Ensuing Agreement(s) is governed by the laws of the United States, this IFB, the Contract and any Ensuing Agreement(s) shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

4.2 INCORPORATION BY REFERENCE AND PRECEDENCE

A. The Contract shall be derived from the IFB and its Addenda (if applicable), and the Bidder's Bid. In the event of a dispute under the Contract, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The IFB and its Addenda (if applicable); and

   2. The Bidder's Bid.

B. In the event the County requires that an Ensuing Agreement be executed following award and a dispute arises between the terms and conditions of the Ensuing Agreement, the IFB and its Addenda (if applicable), and the Bidder's Bid, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. Terms and conditions of the Ensuing Agreement;

   2. The IFB its Addenda; and

   3. The Bidder's Bid.

4.3 OWNERSHIP OF BID

Each Bid shall become the property of the County upon submittal and will not be returned to Bidders unless received after the submittal deadline.

4.4 DISQUALIFICATION OF BIDDER

Upon signing and submittal of the Bid, a Bidder offering to sell supplies, materials, services, or equipment to the County, certifies that the Bidder has not violated the antitrust laws of the State of Texas codified in Business & Commerce Code, Section 15.01, or the Federal Antitrust Laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged in such line of business. Any or all Bids may be rejected if the County believes that collusion exists among the Bidders.

4.5 FUNDING

The County intends to budget and make sufficient funds available and authorize funds for expenditure to finance the costs of the Contract. All Bidders understand and agree that the County's payment of amounts under the Contract shall be contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to make payments under this Contract.

4.6 ASSIGNMENT, SUCCESSORS AND ASSIGNS

The Successful Bidder may not assign, sell, or otherwise transfer the Contract or any other rights or interests obtained under the Contract without written permission of the Commissioners Court. The Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the contracting parties hereto and their respective successors and permitted assigns.

4.7 IMPLIED REQUIREMENTS

Products or services not specifically described or required in the IFB, but are necessary to provide the functional capabilities described by the Bidder, shall be implied and deemed to be included in the Bid.

4.8 TERMINATION

A. **Termination for Cause:** The County reserves the right to terminate the Contract and/or any Ensuing Agreement(s) for default if the Successful Bidder breaches any of the Bid specifications, terms and conditions, including warranties of the Bidder, if any, or if the Successful Bidder becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies the County may have at law or in equity or as may otherwise provided hereunder. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all other requirements to the County's satisfaction, and/or to meet all other obligations and requirements.

B. **Termination for Convenience:** The County may terminate the Contract and/or any Ensuing Agreement(s) for convenience and without cause or further liability, upon no less than thirty (30) calendar days written notice to the Successful Bidder. The County reserves the right to extend this period if it is in the best interest of the County. In the event the County exercises its right to terminate without cause, it is understood and agreed that only the amounts due to the Successful Bidder for goods, commodities and/or services provided and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for the County termination for convenience.

4.9 NON-PERFORMANCE

It is the objective of the County to obtain complete and satisfactory performance of the requirements set forth herein. In addition to any other remedies available at law, in equity or that may be set out herein, failure to perform may result in a deduction of payment equal to the amount of the goods and/or services that were not provided and/or performed to the County's satisfaction.

In the event of such non-performance, the County shall have the right, but shall not be obligated, to complete the services itself or by others and/or purchase the goods from other sources. If the County elects to acquire the goods or perform the services itself or by others, pursuant to the foregoing, the Successful Bidder shall reimburse the County, within ten (10) calendar days of demand, for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting the nonperformance which the Successful Bidder fails to meet pursuant to the requirements set out herein. In the event the Successful Bidder refuses to reimburse the County as set out in this provision, the County shall have the right to deduct such reimbursement amounts from any amounts that may be then owing or that may become owing in the future to the Successful Bidder.

4.10 PROPRIETARY INFORMATION AND THE TEXAS PUBLIC INFORMATION ACT

All material submitted to the County shall become public property and subject to the Texas Public Information Act upon receipt. If a Bidder does not desire proprietary information in the Bid to be

disclosed, each page must be clearly identified and marked proprietary at time of submittal or, more preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary. Failure to clearly identify and mark information as being proprietary as set forth under this provision will result in all unmarked information being deemed non-proprietary and available to the public. For all information that has not been clearly identified and marked as proprietary by the Bidder, the County may choose to place such information on the County's website and/or a similar public database without obtaining any type of prior consent from the Bidder.

The County will, to the extent allowed by law, endeavor to protect from public disclosure the information that has been identified and marked as proprietary. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General.

To the extent, if any, that any provision in this IFB or in the Bidder's Bid is in conflict with Texas Government Code, Chapter 552, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood, and agreed, that the County, and its officers and employees, may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to the County as to whether or not the same are available to the public. It is further understood that the County, and its officers and employees, shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that the County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to the County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

4.11 RIGHT TO AUDIT

The Successful Bidder agrees that the County or its duly authorized representatives shall, until the expiration of three (3) years after termination or expiration of the services to be performed, have access to and the right to examine and photocopy any and all books, documents, papers and records of the Successful Bidder, which are directly pertinent to the services to be performed or goods to be delivered for the purposes of making audits, examinations, excerpts and transcriptions. The Successful Bidder agrees that the County shall have access during normal working hours to all necessary facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give the Successful Bidder reasonable advance notice of intended audits.

4.12 TESTING AND INSPECTIONS

The County reserves the right to inspect and test equipment, supplies, materials and goods for quality and compliance with this IFB, and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the County can deem the Bidder to be in breach and terminate the Contract and/or any Ensuing Agreement(s).

4.13 BID PREPARATION COSTS

The cost of developing Bids is the sole responsibility of the Bidders and shall not be charged to the County. There is no expressed or implied obligation for the County to reimburse the Bidders for any expense incurred in preparing a Bid in response to this IFB and the County will not reimburse the Bidders for such expenses.

4.14 INDEMNIFICATION

The Successful Bidder shall indemnify, defend and save harmless, the County, its officials, employees, agents and agent's employees from, and against, all claims, liability, and expenses including reasonable attorneys' fees, arising from activities of the Bidder, its agents, servants or employees, performed

hereunder that result from the negligent act, error, or omission of the Bidder or any of the Bidder agents, servants or employees, as well as all claims of loss or damage to the Bidder's and the County property, equipment, and/or supplies.

Furthermore, the County, its officials, employees, agents and agents' employees shall not be liable for damages to the Successful Bidder arising from any act of any third party, including, but not limited to, theft. The Successful Bidder further agrees to indemnify, defend and save harmless, the County from its officials, employee, agents and agents' employees against all claims of whatever nature arising from any accident, injury, or damage whatsoever, caused to any person, or the property of any person, occurring in relation to the Successful Bidder's performance of any services requested hereunder during the term of the Contract and/or any Ensuing Agreement(s).

The Successful Bidder shall timely report all claims, demands, suits, actions, proceedings, liens or judgements to the County and shall, upon the receipt of any claim, demand, suit, action, proceeding, lien or judgement, not later than the fifteenth (15th) day of each month; provide the County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of the County required by the Successful Bidder in the defense of each matter. The Successful Bidder's duty to defend, indemnify and hold the County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of the Contract and/or any Ensuing Agreement(s), unless otherwise agreed by the County in writing. The provisions of this section shall survive the termination of the Contract and shall remain in full force and effect with respect to all such matters no matter when they arise.

In the event of any dispute between the parties, as to whether a claim, demand, suit, action, proceeding, lien or judgement, that appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of the County, the Bidder shall nevertheless fully defend such claim, demand, suit or action, proceeding, lien or judgement, until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of the Bidder are not an issue in the matter.

The Successful Bidder's indemnification shall cover, and the Successful Bidder agrees to, indemnify the County, in the event the County is found to have been negligent for having selected the Successful Bidder to perform the work described in this request. The provision by the Successful Bidder of insurance shall not limit the liability of the Successful Bidder under the Contract and/or any Ensuing Agreement(s).

4.15 WAIVER OF SUBROGATION

The Successful Bidder and the Successful Bidder's insurance carrier waive any and all rights whatsoever with regard to subrogation against the County as an indirect party to any suit arising out of personal or property damages resulting from the Bidder's performance under this Contract and any Ensuing Agreement(s).

4.16 RELATIONSHIP OF THE PARTIES

The Successful Bidder shall be an independent contractor and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions herein which may appear to give the County the right to direct the Successful Bidder as to details of doing work herein covered, or to exercise a measure of control over the work, shall be deemed to mean that the Successful Bidder shall follow the desires of the County in the results of the work only. The County shall not retain or have the right to control the Successful Bidder's means, methods or details pertaining to the Successful Bidder's performance of the work. The County and the Successful Bidder hereby agree and declare that the Successful Bidder is an independent contractor and as such meets the qualifications of an "Independent Contractor" under Texas Workers Compensation Act, Texas Labor Code, Section 406.141, that the Successful Bidder is not an employee of the County, and that the Successful Bidder and its employees, agents and subcontractors shall not be entitled to workers compensation coverage or any other type of insurance coverage held by the County.

4.17 SOLE PROVIDER

The Successful Bidder agrees and acknowledges that it shall not be considered a sole provider of the goods and/or services described herein and that the County may contract with other providers of such goods and/or services if the County deems, at its sole discretion, that multiple providers of the same goods and/or services will serve the best interest of the County.

4.18 FORCE MAJEURE

If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

4.19 SEVERABILITY

If any provision of this IFB, the Contract or any Ensuing Agreement(s) shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision thereof, but rather the entire IFB, Contract or any Ensuing Agreement (s) will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this IFB, the Contract or any Ensuing Agreement(s) is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this IFB, the Contract or any Ensuing Agreement(s) and be deemed to be validated and enforceable.

4.20 EQUAL OPPORTUNITY

Neither party shall discriminate against any employee or applicant for employment because of race, color, sex, religion or national origin.

4.21 NOTICE

Any notice to be given shall be in writing and may be distributed by personal delivery, or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

The County: Williamson County Purchasing Department
Attn: Purchasing Agent
901 South Austin Avenue
Georgetown, Texas 78626

The Bidder: Address set out in Bidder's Transmittal Letter.

Notices given in accordance with this provision shall be effective upon (1) receipt by the party to which notice is given, or (2) on the third (3rd) calendar day following mailing, whichever occurs first.

4.22 SALES AND USE TAX EXEMPTION

The County is a body, corporate and politic, under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code, Section 151.309, as amended, and the services and/or goods subject hereof are being secured for use by the County.

4.23 COMPLIANCE WITH LAWS

The County and the Successful Bidder shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any Ensuing Agreement(s), including, without limitation, Workers' Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the Successful Bidder shall furnish the County with certification of compliance with said laws, statues, ordinances, rules, regulations, orders, and decrees above specified.

4.24 INCORPORATION OF EXHIBITS, APPENDICES AND ATTACHMENTS

All of the Exhibits, Appendices and Attachments referred to herein are incorporated by reference as if set forth verbatim herein. Any conflicting terms in the Contract documents will be resolved at the sole discretion of the Commissioners Court.

4.25 NO WAIVER OF IMMUNITIES

Nothing herein shall be deemed to waive, modify or amend any legal defense available at law or in equity to the County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. The County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

4.26 NO WAIVER

The failure or delay of any party to enforce at any time or any period of time any of the provisions of this IFB, the Contract or any Ensuing Agreement(s) shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

4.27 CURRENT REVENUES

The obligations of the parties under the Contract and any Ensuing Agreement(s) do not constitute a general obligation or indebtedness of the County for which the County is obligated to levy, pledge, or collect any of taxation. It is understood and agreed that the County shall have the right to terminate the Contract and any Ensuing Agreement(s) at the end of any the County fiscal year if the governing body of the County does not appropriate sufficient funds as determined by the County's budget for the fiscal year in question. The County may effect such termination by giving written notice of termination to the Successful Bidder at the end of its then-current fiscal year.

4.28 FOB DESTINATION

To the extent applicable to this IFB, all of the items listed are to be Free On Board to final destination (FOB Destination) with all transportation charges if applicable to be included in the Bid, unless otherwise specified in the Invitation for Bids. The title and risk of loss of the goods shall not pass to the County until receipt and acceptance takes place at the FOB Destination point.

4.29 BINDING EFFECT

This Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the parties

and their respective permitted assigns and successors.

4.30 ASSIGNMENT

The Successful Bidder's interest and duties hereunder may not be assigned or delegated to a third party without the express written consent of the County.

4.31 SAFETY

The Successful Bidder is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with any services to be provided hereunder. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

4.32 GENERAL OBLIGATIONS AND RELIANCE

The Successful Bidder shall perform all services and/or provide all goods, as well as those reasonably inferable and necessary for completion and provision of services and/or goods required hereunder. The Successful Bidder shall keep the County informed of the progress and quality of the services. The Successful Bidder agrees and acknowledges that the County is relying on the Successful Bidder's represented expertise and ability to provide the goods and/or services described herein. The Successful Bidder agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of the County accordance with the County's requirements and procedures. The Successful Bidder's duties, set forth herein, shall at no time be in any way diminished by reason of any approval by the County, n shall the Successful Bidder be released from any liability by reason of such approval by the County, it being understood that the County at all times is ultimately relying upon the Successful Bidder's skill and knowledge in performing the services and providing any goods required hereunder.

4.33 ESTIMATED QUANTITIES

To the extent applicable to this IFB, the estimated quantity of each item listed in this IFB is only estimate; the actual quantity to be purchased may be more or less. The County is not obligated purchase any minimum amount, and the County may purchase any reasonable amount greater than t estimate for the same unit price. Any limit on quantities available must be stated expressly in the Bid.

4.34 CONTRACTUAL DEVELOPMENT

The contents of the IFB and the Successful Bidder's Bid will become an integral part of the Contract, but may be modified, at the County's sole discretion, by provisions of an Ensuing Agreement. Therefore, the Bidder must agree to an inclusion of an Ensuing Agreement of the Bid specifications, terms and conditions of this IFB. If an Ensuing Agreement is required under this IFB, information relative to t Agreement will be located in the Special Provisions Section of this IFB.

4.35 SURVIVABILITY

All applicable agreements that were entered into between the Successful Bidder and the County, under the terms and conditions of the Contract and/or any Ensuing Agreement(s), shall survive the expiration or termination thereof for ninety (90) days unless a new contract has been awarded.

The County may exercise, by written notice to the Successful Bidder no later than ten (10) calendar days of the Contract expiration, this clause for emergencies only.

4.36 AIR QUALITY

In determining the overall best Bid, the County may, to the extent applicable, exercise the option granted to local governments under the Texas Local Government Code, Section 271.907.

This option allows the County to evaluate Bids and give preference to goods and/or services of a Bidder that demonstrates that the Bidder meets or exceeds any and all state or federal environmental standards, including voluntary standards, relating to air quality. If the Bid being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Bidder is encouraged to provide information in narrative indicating the anticipated air quality impact. All Bidders are expected to meet all mandated state and federal air quality standards.

4.37 ENTIRE AGREEMENT

The Contract and any Ensuing Agreement(s) shall supersede all prior Agreements, written or oral between the Successful Bidder and the County and shall constitute the entire Agreement and understanding between the parties with respect to the services and/or goods to be provided. Each of the provisions herein shall be binding upon the parties and may not be waived, modified, amended or altered, except by writing signed by the Successful Bidder and the County.

4.38 PAYMENT

The County's payment for goods and services shall be governed by the Texas Government Code, Chapter 2251. An invoice shall be deemed overdue the thirty-first (31st) day after the later of the following:

A. The date the County receives the goods under the Contract;
B. The date the performance of the service under the Contract is completed; or
C. The date the Williamson County Auditor receives an invoice for the goods or services.

Interest charges for any overdue payments shall be paid by the County in accordance with Texas Government Code, Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of the County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one (1) percent, and the prime rate published in the Wall Street Journal on the first (1st) day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by the Successful Bidder, the County shall notify the Successful Bidder of the error not later than the twenty-first (21st) day after the date the County receives the invoice. If the error is resolved in favor of the Successful Bidder, the Successful Bidder shall be entitled to receive interest on the unpaid balance of the invoice submitted by the Successful Bidder beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, the Successful Bidder shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by the Texas Government Code, Chapter 2251, if the corrected invoice is not paid by the appropriate date.

As a minimum, invoices shall include:

A. Name, address, and telephone number of the Successful Bidder and similar information in the event the payment is to be made to a different address.

B. The County Contract, Purchase Order.

C. Identification of items or service as outlined in the Contract.

D. Quantity or quantities, applicable unit prices, total prices and total amount.

E. Any additional payment information which may be called for by the Contract.

Payment inquiries should be directed to the following address:

Williamson County Auditor's Office, Accounts Payable Department
Email: accountspayable@wilco.org
Phone: 512-943-1500

4.39 CONTRACTUAL FORMATION AND ENSUING AGREEMENT

The IFB and the Bidder's Bid, when properly accepted by the Commissioners Court, shall constitute a Contract equally binding between the Successful Bidder and the County.

If an Ensuing Agreement is required by this IFB, that information will be provided in Special Provisions section of this IFB. The Successful Bidder shall be required to execute the Agreement at the Williamson County Purchasing Department approximately ten (10) calendar days after the Successful Bidder is notified of award. The Ensuing Agreement shall be in the same form as the Agreement which is attached to the end of this IFB. The only anticipated changes in the Ensuing Agreement will be to include additional exhibits, to fill in blanks to identify the Successful Bidder, and terms relating to the compensation, or to revise the Agreement to accommodate corrections, changes in the scope of services, or changes pursuant to Addenda issued. **Bidders should raise any questions regarding the terms of the Agreement in the form of written questions or submittals as described in the Public Announcement and General Information portion of this IFB.** Because the signed Ensuing Agreement will be substantively and substantially derived from the attached Agreement, each Bidder is urged to seek independent legal counsel as to any questions about the terms, conditions or provisions contained in the Agreement *before* submitting a Bid. Again, the attached Agreement, if applicable, contains important legal provisions and is considered part and parcel of this IFB. Failure or refusal to sign aforesaid Agreement shall be grounds for the County to revoke any award which has been issued, forfeit Bid security, if applicable, and select another Bidder.

4.40 COOPERATIVE PURCHASING PROGRAM

During the term of the Contract resulting from this IFB, the County would like to afford the same prices, terms and conditions to other political subdivisions or public entities. Another entity's participation in the Contract resulting from this IFB is subject to a properly authorized Purchasing Cooperative Inter-local Agreement with the County. Any liability created by purchase orders issued against the Contract shall be the sole responsibility of the governmental agency placing the order.

4.41 INSURANCE REQUIREMENTS

To the extent applicable Insurance information will appear in the Additional Stipulations section that is in this IFB Package.

4.42 BIDDERS BOND, WARRANTY BOND, PERFORMANCE AND PAYMENT BONDS

To the extent applicable Bond information will appear in the Additional Stipulations section that is in this IFB Package.

4.43 LEGAL LIABILITY INFORMATION

The Successful Bidder shall disclose all legal liability information by listing any pending litigation anticipated litigation that your firm is involved in including, but not limited to, potential or actual legal matters with private parties and any local, state, federal or international governmental entities. The County reserves the right to consider legal liability information in the recommendation of any proposed

contract to the Commissioners Court.

4.44 INCLEMENT WEATHER

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a Bid submission deadline, the Bid closing will automatically be postponed until the next business day the County is open. If inclement weather conditions or any other unforeseen event causes delays in carrier service operations, the County may issue an Addendum to all known Bidders interested in the project to extend the deadline. It will be the responsibility of the Bidder to notify the County of their interest in the project if these conditions are impacting their ability to turn in a submission within the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

4.45 CONFIDENTIALITY

The Bidder expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

General Notes and Technical Specifications

CRUSHED GRANITE BASE

General Information

Williamson County is seeking qualified companies to provide for the purchase of Crushed Granite Base, picked up at plant site or delivered to Williamson County Central Maintenance Facility in Georgetown, TX.

Material must be bid separately as Item picked up or Item delivered to Williamson County. Fuel surcharge and Sales Tax of Item delivered price shall be included in bid. Sales Tax of Item picked up shall be included in bid.

Williamson County reserves the right to award the bid in whole to one vendor or to award a contract on each separate item or combination of items as may be most advantageous to the County. A primary, secondary, tertiary, and/or subsequent award may be made for this bid by the County. A vendor will not be disqualified for a “no bid” on items they cannot provide.

The County is not obligated to purchase any minimum amount and the County may purchase any reasonable amount for the same unit price. Items will be ordered on an “As Needed” basis.

It is expressly understood and agreed that in case Williamson County should need any item(s) not available within the time frame needed from the successful vendor(s) during the term of this contract, the County reserves the right to purchase the item(s) from vendors other than the successful vendor(s) and shall not be in violation of any terms or conditions of said contract.

Invoiced tonnage shall be based on certified scale weights at the time of shipment.

Location is an important factor in evaluation of bids, due to transportation costs which must be taken into consideration. Williamson County reserves the right to evaluate the bids based on estimated County transportation costs.

It is expressly understood and agreed that in case Williamson County should need any item(s) not available within the time frame needed from the successful vendor(s) during the term of this contract, the County reserves the right to purchase the item(s) vendors from other than the successful vendor(s) and shall not be in violation of any terms or conditions of said contract.

Definition of Terms

County: Williamson County Road and Bridge Division

Vendor: Successful bidder of the attached invitation to bid.

Engineer: Director of Road and Bridge Division

Inspector: Employee of Williamson County supplied full time to the contractor's crew for the selection, prosecution, and quality control of the work. Should the work, as well as the geographical location, allow, the County may supply one foreman for multiple crews.

Specifications: Texas Department of Transportation Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges 2014.

Department: Road and Bridge Division

Control of Materials

Source Control. Use only materials that meet Contract requirements. Unless otherwise specified or approved, use new materials for the work. Secure the Engineer's approval of the proposed source of materials to be used before their delivery. Materials can be approved at a supply source or staging area but may be re-inspected.

Material Quality. Successful Bidder shall correct or remove materials that fail to meet the contract requirements, and pay for cost incurred if additional sampling and testing is required by a change of source. Materials not meeting Contract requirements will be rejected, unless the Engineer approves corrective actions. Upon rejection, immediately remove and replace rejected materials. If the Successful Bidder does not comply with this Article, the County may remove and replace defective material. The cost of testing, removal, and replacement will be deducted from invoice.

Manufacturer Warranties. Transfer to the County warranties and guarantees required by the Contract or received as part of normal trade practice.

Sampling, Testing, and Inspection. Testing may be performed at the request of the County any time during the length of the contract through an independent testing laboratory. Testing may be requested by the County on any and/or all items on this contract. If the results determine the item did not meet specifications, then the cost of the testing will be borne by the Vendor. If the results of the test determine that the item did meet specifications, the cost of the testing will be borne by the County.

Sieve Analysis and Atterberg Limits test reports shall be from an approved independent testing laboratory, providing the proposed materials compliance and adequacy shown below in Tables 1 and 2.

Table 1. Sieve Analysis Specifications

Sieve Analysis			
Sieve Size	Specification Limit		
	TYPE A	TYPE B	TYPE C
	% Retained Required		
1-3/4	0-15	0-10	0
7/8"	0-35	0-20	0
3/8"	30-75	15-40	0-10
No. 4	45-85	30-50	5-15
No. 40	65-95	70-90	70-85
No. 200	95-100	80-95	83-90

Table 2: Atterberg Limits Specifications

Atterberg Limits			
	Specification Limit		
	TYPE A	TYPE B	TYPE C
PI	5-20	5-20	5-20

The material requirements and standard test methods in effect at the time the proposed Contract is advertised, govern. Additional testing may be requested by the County on any and/or all items on this contract.

Material which that has been tested and approved at a supply source or staging area may be re-inspected or tested before or during incorporation into the work, and rejected if it does not meet Contract requirements. Copies of test results are available upon request. Do not use material that, after approval, becomes unfit for use.

Plant Inspection and Testing. The Engineer may but is not obligated to inspect materials at the acquisition or manufacturing source. Material samples will be obtained and tested for compliance with quality requirements. Materials produced under County inspection are for County use only unless released in writing by the Engineer.

If inspection is at the plant, meet the following conditions unless otherwise specified:

- Cooperate fully and assist the Engineer during the inspection
- Ensure the Engineer has full access to all parts of the plant used to manufacture or produce materials.
- In accordance with pertinent items and the Contract, provide a facility at the plant for use by the Engineer as an office or laboratory.
- Provide and maintain adequate safety measures and restroom facilities.
- Furnish and calibrate scales, measuring devices, and other necessary equipment.

The Engineer may provide inspection for periods other than daylight hours if:

- Continuous production of materials for County use is necessary due to the production volume being handled at the plant and
- The lighting is adequate to allow satisfactory inspection.

General Notes

All products furnished under the provision of the Contract shall comply with requirements which pertain to the various items of work included herein as *Standard Specifications for Construction of Highways, Streets and Bridges* of the Texas Department of Transportation, adopted November, 2014, and as amended and/or updated, which is incorporated herein by reference for all purposes.

In the event that any specification set out herein conflicts with the said TxDOT specifications, the specification set out herein shall control and govern.

Delivery or Pick Up. Delivery or Pick Up will be stated on the Williamson County purchase order.

Measurement. Crushed Granite Base will be measured by the ton (dry weight). When material is furnished in trucks, the weight of the material will be determined on certified scales, or the vendor must provide a set of standard platform truck scales at a location approved by the Engineer.

WILLIAMSON COUNTY BID FORM

CRUSHED GRANITE BASE FOR WILLIAMSON COUNTY UNIFIED ROAD AND BRIDGE SYSTEM

NAME OF BIDDER: _____

Mailing Address: _____

City: _____ State: _____ Zip:_____

Email Address: _____

Telephone: (_____) _____ Fax: (_____) _____ _____

Mobile Phone: (_____) _____

ITEM #	DESCRIPTION	UNIT	UNIT PRICING PICKED UP	UNIT PRICING - DELIVERED TO WILCO CENTRAL MAINTENANCE FACILITY IN GEORGETOWN[1]
1	CRUSHED GRANITE BASE TYPE A	TON		
2	CRUSHED GRANITE BASE TYPE B	TON		
3	CRUSHED GRANITE BASE TYPE C	TON		

Note 1: Wilco Central Maintenance Facility, Road and Bridge, 3151 SE Inner Loop, Georgetown, TX 78627

_____ Date of Bid: _____
Signature of Person Authorized to Sign Bid

Printed Name and Title of Signer: _____

DO NOT SIGN OR SUBMIT WITHOUT READING ENTIRE DOCUMENT THIS FORM MUST BE COMPLETED, SIGNED, AND RETURNED WITH BID

BID AFFIDAVIT

This form must be completed, signed, notarized and returned with Bid package

The undersigned attests that the company named below, under the provisions of Subtitle F, Title 10, Texas Government Code Chapter 2270:

1. Does not boycott Israel currently; and
2. Will not boycott Israel during the term of the contract.

Pursuant to Section 2270.001, Texas Government Code:

1. "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and
2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.

The undersigned certifies that the IFB and the Bidder's Bid have been carefully reviewed and are submitted as correct and final. Bidder further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Bid, and upon the conditions contained in the IFB.

I hereby certify that the foregoing Bid has not been prepared in collusion with any other Bidder or other person or persons engaged in the same line of business prior to the official opening of this Bid. Further, I certify that the Bidder is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Bid on, or to influence any person or persons to submit a Bid or not to submit a Bid thereon."

Name of Bidder:	
Address of Bidder:	
Email:	
Telephone:	
Printed Name of Person Submitting Affidavit:	
Signature of Person Submitting Affidavit:	

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Bid will in no way have a negative impact on the County's evaluation of the Bid.

☐	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Bidder agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared _____ (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, _____, (*Name of Signer*) am a duly authorized officer of/agent for _____ (*Name of Bidder*) and have been duly authorized to execute the foregoing on behalf of the said _____ (*Name of Bidder*).

SUBSCRIBED AND SWORN to before me by the above-named _____

on this the _____ day of _____, 20_____.

_____

Notary Public in and for

The State of _____

The County of _____

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ

This questionnaire is being filed in accordance with chapter 176 of the Local Government Code by a person doing business with the governmental entity.

By law this questionnaire must be filed with the records administrator of the local government not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1 **Name of person doing business with local governmental entity.**

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.**

(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than September 1 of the year for which an activity described in Section 176.006(a), Local Government Code, is pending and not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)

3 **Describe each affiliation or business relationship with an employee or contractor of the local governmental entity who makes recommendations to a local government officer of the local governmental entity with respect to expenditure of money.**

4 **Describe each affiliation or business relationship with a person who is a local government officer and who appoints or employs a local government officer of the local governmental entity that is the subject of this questionnaire.**

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local governmental entity

Form CIQ
Page 2

5 **Name of local government officer with whom filer has affiliation or business relationship.**
(Complete this section only if the answer to A, B, or C is YES.)

This section, item 5 including subparts A, B, C & D, must be completed for each officer with whom the filer has affiliation or other relationship. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer named in this section receiving or likely to receive taxable income from the filer of the questionnaire?

☐ Yes ☐ No

B. Is the filer of the questionnaire receiving or likely to receive taxable income from or at the direction of the local government officer named in this section AND the taxable income is not from the local governmental entity?

☐ Yes ☐ No

C. Is the filer of this questionnaire affiliated with a corporation or other business entity that the local government officer serves as an officer or director, or holds an ownership of 10 percent or more?

☐ Yes ☐ No

D. Describe each affiliation or business relationship.

6. Describe any other affiliation or business relationship that might cause conflict of interest:

7

Signature of person doing business with the governmental entity	Date

Signature not required if completing in BIDSYNC electronically.

Bidder References

List the last (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this IFB package, were recently provided by Bidder.

Reference 1

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Reference 2

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Reference 3

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Question and Answers for Bid #1710-196 - Crushed Granite Base

Overall Bid Questions
There are no questions associated with this bid.

Commissioners Court - Regular Session **42.**

Meeting Date: 10/17/2017

Asphalt Mixes renewal 1509-010

Submitted For: Randy Barker **Submitted By:** Dianne West, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take appropriate action on authorizing the extension of Asphalt Mixes, contract #1509-010, for the same pricing, terms and conditions as the existing Contract for the term of November 3, 2017 - November 2, 2018, with Austin Materials, LLC.

Background

This is the second of two (2) possible, one (1) year renewal options. Road and Bridge, the user department, submitted a vendor performance report stating Austin Materials, LLC met all contract requirements and recommended renewal.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Asphalt Mixes

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	10/11/2017 04:17 PM
County Judge Exec Asst.	Wendy Coco	10/11/2017 04:31 PM
Form Started By: Dianne West		Started On: 10/11/2017 09:49 AM
Final Approval Date: 10/11/2017		

WILLIAMSON COUNTY
1848

Summary Agreement for Renewal of Williamson County Contract

Purchase/Contract Type:	Commodity	**Department:**	Road and Bridge
Vendor Name:	Austin Materials, LLC		
Vendor Address:	9020 N Capital of Texas Hwy, Ste 250 Bldg II, Austin, TX 78759		
Purpose/Intended Use of Product or Service (summary):			
Asphalt Mixes			
P.O./Contract Number:	1509-010	**Effective Date:**	11/03/2017
Purchaser/Contract Specialist:	Dianne West	**Expiration Date:**	11/02/2018
Requested By:	Terron Evertson, Director		

Detailed description of renewal of product and/or service.

- **Williamson County wishes to extend this bid for the same pricing, terms and conditions as the existing contract.**
- **Extend Contract for the second of two, one (1) year renewal option periods:**

Renewal Option Period 2	November 3, 2017 – November 2, 2018
Renewal Option Period 1	November 3, 2016 – November 2, 2017
Initial Contract Period	November 3, 2015 – November 2, 2016

BY SIGNING BELOW, THE PARTIES AGREE TO THE TERMS OF EXTENSION SET OUT HEREIN

Vendor Industrial Asphalt LLC.

Name Robert Sutton

Title Sales Manager

Signature

Date 10/3/2017

Williamson County, 710 Main St., Georgetown, TX 78626

Dan A. Gattis

Williamson County Judge

Signature _____

Date _____

Two (2) Signed Originals & One (1) photocopy must be submitted

Commissioners Court - Regular Session **43.**

Meeting Date: 10/17/2017

Economic Development

Submitted For: Charlie Crossfield **Submitted By:** Charlie Crossfield, Road Bond

Department: Road Bond

Agenda Category: Executive Session

Information

Agenda Item

Discussion regarding economic development negotiations pursuant to Texas Government Code, Section 551.087:
a) Business prospect(s) that may locate or expand within Williamson County.
b) Discuss Pearson Road District.
c) Discuss North Woods Road District.
d) Project Columbus Balbo
e) Mega Site
f) Texas State Gold Depository
g) Project New World
h) Coop District Development
i) Project Amazon

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Charlie Crossfield		Started On: 10/12/2017 09:37 AM
Final Approval Date: 10/12/2017		

Commissioners Court - Regular Session **44.**

Meeting Date: 10/17/2017

Executive Session

Submitted For: Charlie Crossfield **Submitted By:** Charlie Crossfield, Road Bond

Department: Road Bond

Agenda Category: Executive Session

Information

Agenda Item

Discuss real estate matters (EXECUTIVE SESSION as per VTCA Govt. Code sec. 551.072 Deliberation Regarding Real Estate Property if deliberation in an open meeting would have a detrimental effect on the position of the governmental body in negotiations with third person.)

A. Real Estate Owned by Third Parties

1. Preliminary discussions relating to proposed or potential purchase or lease of property owned by third parties

a) Discuss the acquisition of real property for right-of-way for N. Mays St. Extension

b) Discuss the acquisition of real property for SW 183 and SH 29 Loop.

c) Discuss the acquisition of real property for CR 176 at RM 2243

d) Discuss the acquisition of real property with endangered species for mitigation purposes.

e) Discuss the acquisition of real property: CR 101

f) Discuss the acquisition of real property: CR 111

g) Discuss the acquisition of real property for CR 278 at Bagdad Rd.

h) Discuss the acquisition of real property for proposed CR 110 project. (All sections)

i) Discuss the acquisition of real property for County Facilities.

j) Discuss the acquisition of Easement interests for the Brushy Creek Trail Project.

k) Discuss acquisition of property located at NEC of Toll 130 and Gattis School Rd.

l) Discuss the acquisition of a drainage easement for CR 108.

m) Discuss easement acquisitions from San Gabriel River Ranch Subdivision.

n) Discuss the acquisition of real property for CR 278 @ Bagdad Rd.

o) Discuss the acquisition of real property for Seward Junction SE Loop.

p) Discuss the acquisition of real property for US 183.

q) Discuss the acquisition of real property for Hairy Man Rd.

r) Discuss the acquisition of real property for SW Bypass.

s) Discuss the acquisition of real property for Crossroad Acres.

t) Discuss proposed acquisition of real property on CR 138.

u) Discuss proposed acquisition of real property at Highland Springs Lane.

v) Discuss Somerset Road Districts No. 3 & 4 reimbursements for acquisition & construction of Reagan Blvd.

w) Discuss Cedar Hollow low water crossings and Lost River.

x) Discuss the acquisition of real property- Condra Funeral Home- Taylor, Texas

y) Discuss the acquisition of real property- S&D Plumbing- Taylor, Texas

z) Discuss the acquistiion of Real Estate for Tower Site.

B. Property or Real Estate owned by Williamson County

1). Preliminary discussions relating to proposed or potential sale or lease of property owned by the County

a) Discuss County owned real estate containing underground water rights and interests.

b) Discuss possible sale of 183 A excess right of way

c) Discuss proposed sale of real estate of Blue Springs Blvd

d) Discuss transfer of right of way for Westinghouse Rd. to the City of Georgetown.

e) Discuss wastewater easements in Berry Springs Park

f) Discuss Development Agreement with Ashby Capital Investments, LLC

g) Discuss sale of County property on Ronald Reagan Blvd.

h) Discuss abandonment of County property on CR 123.

i) Discuss possible sale or exchange of property at 350 Exchange Boulevard, Hutto, Texas

j) Discuss possible sale of +/- 10 acres located on Chandler Road near the County Sheriff's Office Training Facility

k) Discuss possible sale/disposition of a portion of CR 117.

l) Discuss possible sale or exchange of property to LCRA.

m) Discuss sale of property adjacent to Blue Springs Boulevard, Georgetown, Texas.

C. Consider intervention in lawsuit regarding de-listing of Bone Cave harvestman.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	10/12/2017 09:51 AM
Form Started By: Charlie Crossfield		Started On: 10/12/2017 09:36 AM
Final Approval Date: 10/12/2017		