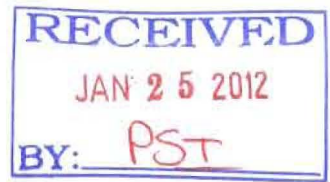


WILLIAMSON COUNTY, TEXAS  
CHANGE ORDER NUMBER: 12



1. CONTRACTOR: J.D. Ramming Paving Co., LTD.
2. Change Order Work Limits: Sta. 617+12 to Sta. 766+27
3. Type of Change (on federal-aid non-exempt projects): Minor (Major/Minor)
4. Reasons: 3H (3 Max. - In order of importance - Primary first)

Project: 10WC817  
Roadway: US 79 Section 3  
CSJ Number: 0204-02-027, etc

5. Describe the work being revised:

**3H: County Convenience. Cost saving opportunity discovered during construction.** As a result of replacing the original SMA paving with PFC (see Change Order No. 5), the originally specified shoulder texturing is no longer feasible due to the 1.5" depth of the PFC. This Change Order compensates the Contractor to install a reflectorized profile marking in lieu of the shoulder texturing. Although this Change Order is positive, the overall cost of the change to PFC pavement results in a cost savings to the County.

6. Work to be performed in accordance with Items: SS 8020
7. New or revised plan sheet(s) are attached and numbered: N/A
8. New Special Provisions to the contract are attached: ☐ Yes ☒ No
9. New Special Prov. to Item N/A No. N/A, Special Spec. Item 8020 is attached.

Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

<p><i>The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.</i></p> <p>THE CONTRACTOR Date <u>1-18-2012</u></p> <p>By <u>[Signature]</u></p> <p>Typed/Printed Name <u>ROD PERKINNEY</u></p> <p>Typed/Printed Title <u>GM</u></p>	<p><b>The following information must be provided</b></p> <p>Time Ext. #: <u>N/A</u> Days added on this CO: <u>N/A</u></p> <p>Amount added by this change order: <u>\$33,296.12</u></p>
--	--

RECOMMENDED FOR EXECUTION:

[Signature] P.E. 1/20/12  
Project Manager Date

N/A  
Design Engineer Date

[Signature] 1/25/2012  
Program Manager Date

Design Engineer's Seal:

N/A

County Commissioner Precinct 1 Date  
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 2 Date  
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 3 Date  
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 4 Date  
☐ APPROVED ☐ REQUEST APPROVAL

[Signature] 01-23-12  
County Judge Date  
☒ APPROVED

**WILLIAMSON COUNTY, TEXAS**CHANGE ORDER NUMBER: 12

Project # 10WC817

**TABLE A: Force Account Work and Materials Placed into Stock**[illegible]**TABLE B: Contract Items**

				ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
533-2001	SHOULDER TEXTURING (MILLED)	STA	\$60.00	222.00	\$13,320.00	(222.00)	0.00	\$0.00	(\$13,320.00)
666-2011	REFL PAV MRK TY I (W) 4" (SLD) (090MIL)	LF	\$0.26	55,518.00	\$14,434.68	(29,834.00)	25,684.00	\$6,677.84	(\$7,756.84)
666-2110	REFL PAV MRK TY I (Y) 4" (SLD) (090MIL)	LF	\$0.26	57,557.00	\$14,964.82	(29,182.00)	28,375.00	\$7,377.50	(\$7,587.32)
666-2145	REFL PAV MRK TY II (W) 4" (SLD)	LF	\$0.08	55,518.00	\$4,441.44	(29,834.00)	25,684.00	\$2,054.72	(\$2,386.72)
666-2178	REFL PAV MRK TY II (Y) 4" (SLD)	LF	\$0.08	57,557.00	\$4,604.56	(29,182.00)	28,375.00	\$2,270.00	(\$2,334.56)
8020-2002	REF PROF PAV MRK TY I (W) 4" (SLD)(90ML)	LF	\$1.12	0.00	\$0.00	29,834.00	29,834.00	\$33,414.08	\$33,414.08
8020-2007	REF PROF PAV MRK TY I (Y) 4" (SLD)(90ML)	LF	\$1.14	0.00	\$0.00	29,182.00	29,182.00	\$33,267.48	\$33,267.48
<b>TOTALS</b>					<b>\$51,765.50</b>		<b>167,134.00</b>	<b>\$85,061.62</b>	<b>\$33,296.12</b>

## CHANGE ORDER REASON(S) CODE CHART

1. Design Error or Omission	1A. Incorrect PS&E 1B. Other
2. Differing Site Conditions (unforeseeable)	2A. Dispute resolution (expense caused by conditions and/or resulting delay) 2B. Unavailable material 2C. New development (conditions changing after PS&E completed) 2D. Environmental remediation 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9) 2F. Site conditions altered by an act of nature 2G. Unadjusted utility (unforeseeable) 2H. Unacquired Right-of-Way (unforeseeable) 2I. Additional safety needs (unforeseeable) 2J. Other
3. County Convenience	3A. Dispute resolution (not resulting from error in plans or differing site conditions) 3B. Public relations improvement 3C. Implementation of a Value Engineering finding 3D. Achievement of an early project completion 3E. Reduction of future maintenance 3F. Additional work desired by the County 3G. Compliance requirements of new laws and/or policies 3H. Cost savings opportunity discovered during construction 3I. Implementation of improved technology or better process 3J. Price adjustment on finished work (price reduced in exchange for acceptance) 3K. Addition of stock account or material supplied by state provision 3L. Revising safety work/measures desired by the County 3M. Other
4. Third Party Accommodation	4A. Failure of a third party to meet commitment 4B. Third party requested work 4C. Compliance requirements of new laws and/or policies (impacting third party) 4D. Other
5. Contractor Convenience	5A. Contractor exercises option to change the traffic control plan 5B. Contractor requested change in the sequence and/or method of work 5C. Payment for Partnering workshop 5D. Additional safety work/measures desired by the contractor 5E. Other
6. Untimely ROW/Utilities	6A. Right-of-Way not clear (third party responsibility for ROW) 6B. Right-of-Way not clear (County responsibility for ROW) 6C. Utilities not clear 6D. Other

**Williamson County Road Bond Program**

**US 79 Section 3  
Williamson County Project No. 10WC817**

**Change Order No. 12**

**Reason for Change**

This Change Order compensates the Contractor for providing reflectorized profile pavement markings in lieu of the shoulder texturing as originally established in the plans. Previous Change Order #5 replaced the final surface pavement of SMA with a PFC pavement. The depth of the PFC will not adequately support shoulder texturing. Therefore, the reflectorized profile pavement markings are more appropriate for use and are needed to improve safety for the traveling public. Although this Change Order is positive, the overall cost of the change to PFC pavement results in a cost savings in the amount of \$127,818.88 to the County (Change Order #5 plus Change Order #12).

Following is a summary of the new items required for this Change Order:

ITEM	DESCRIPTION	QTY	UNIT
8020-2002	REF PROF PAV MRK TY I (W) 4" (SLD)(90ML)	29,834	EA
8020-2007	REF PROF PAV MRK TY I (Y) 4" (SLD)(90ML)	29,182	EA

This Change Order results in a net increase of \$33,296.12 to the Contract amount, for an adjusted Contract amount of \$11,719,165.19. The original Contract amount was \$11,740,098.95. As a result of this and all Change Orders to date, \$218,618.16 has been added to the Contract, resulting in a 1.9% net increase in the Contract Cost. No additional days will be added to or deducted from the Contract as a result of this Change Order.

**RABA-KISTNER INFRASTRUCTURE**

Ron Seal, P.E.

## SPECIAL SPECIFICATION

### 8020

#### Reflectorized Profile Pavement Markings

1. **Description.** Furnish and place reflectorized profile pavement markings of the type, color, shape, size, width, and thickness shown on the plans.
2. **Materials.**

- A. **Type I Profile Marking Materials.** Type I profile markings are thermoplastic type materials that require heating to elevated temperatures for application. Type I marking materials must conform to departmental materials specification DMS 8220, "Hot Applied Thermoplastic." Clearly mark each container of Type I marking material to indicate the color, weight, type of material, manufacturer's name, and the lot/batch number.

In addition to the above requirements, the thermoplastic type material must contain a minimum of 35.0% intermix glass beads.

- B. **Type II Profile Marking Materials.** Type II profile markings are paint-type materials that are applied at ambient or slightly elevated temperatures.

Type II paint-type profile markings must be a catalyzed methacrylate or other catalyzed material approved by the Construction Division and must contain a minimum of 20.0% intermix glass beads conforming to DMS 8290, "Glass Traffic Beads" and meet the color requirements for each color, white and yellow, as specified in DMS 8220.

3. **Equipment Requirements.** Equipment used to place pavement markings must:
  - A. Be maintained in satisfactory operating condition.
  - B. Be considered in satisfactory operating condition if it has an average placement rate of 5,000 linear ft. per hour of acceptable 4 in. solid or broken lines over any 5 consecutive working days.
  - C. Meet or exceed the material handling at elevated temperatures requirements of the National Board of Fire Underwriters and the Texas Railroad Commission.
  - D. Be capable of placing a minimum of 40,000 linear ft. of 4 in. solid or broken markings per working day.
  - E. Have the same production capabilities as 4 in. marking equipment, and must be capable of placing linear markings up to 8 in. in width in a single pass.

- F. Production capabilities for the placement of markings other than solid or broken lines must be approved by the Engineer.
- G. Be capable of placing a centerline and no-passing barrier-line configuration consisting of 1 broken line and 2 solid lines at the same time to the alignment and spacing shown on the plans.
- H. Be capable of placing solid and broken lines simultaneously.
- I. Be capable of placing lines with clean edges and of uniform cross-section. All lines must have a tolerance of  $\pm 1/8$  in. per 4 in. width.
- J. Have an automatic cut-off device with manual operating capabilities to provide clean, square marking ends, and to provide a method of applying broken line in a stripe-to-gap ratio of 10 to 30. The length of the stripe must not be less than 10 ft. or more than 10.5 ft. The total length of any stripe-gap cycle must not be less than 39.5 ft. or more than 40.5 ft.
- K. Provide continuous mixing and agitation of the pavement marking material. The use of pans, aprons, or similar appliances which the die overruns will not be permitted for longitudinal striping applications.
- L. Apply beads by an automatic bead dispenser attached to the pavement marking equipment in such a manner that the beads are dispensed uniformly and almost instantly upon the marking as the marking is being applied to the road surface. The bead dispenser must have an automatic cut-off control, synchronized with the cut-off of the pavement marking equipment.
- M. Be capable of producing the types and shapes of profiles as specified under Article 4 "Construction," Section C & D.

#### **4. Construction.**

- A. **General.** When required, review the sequence of work to be followed and the estimated progress schedule with the Engineer.

Markings may be placed on roadways either free of traffic or open to traffic. On roadways open to traffic, place the markings under traffic conditions that exist with a minimum of interference to the operation of the facility. Traffic control must be as shown on the plans, or as approved by the Engineer in writing. All markings placed under open traffic conditions must be protected from traffic damage and disfigurement.

Guides to mark the lateral location of pavement markings must be established as shown on the plans or as directed by the Engineer. Establish the pavement marking guides for verification.

Place markings in proper alignment with the guides. The deviation rate in alignment must not exceed 1 in. per 200 ft. of roadway. The maximum deviation must not exceed 2 in. nor must any deviation be abrupt.

Markings must essentially have a uniform cross section. The density and quality of markings must be uniform throughout their thickness. The applied markings must have no more than 5%, by area, of holes or voids, and must be free of blisters.

Type I markings, in place on the roadway, must be reflectorized both internally and externally. Apply glass beads to the material at a uniform rate sufficient to achieve uniform and distinctive retroreflective characteristics when observed in accordance with Test Method, TEX-828-b.

Markings placed that are not in alignment or sequence, as shown on the plans or as stated in this Item, must be removed by the contractor at the contractor's expense. Remove in accordance with Item 677, "Eliminating Existing Pavement Markings and Markers," except for measurement and payment. Guides placed on the roadway for alignment purposes must not establish a permanent marking on the roadway.

When Type I markings are to be placed, use a hand-held thermometer. The thermometer must be capable of measuring the temperature of the pavement marking material to be placed.

- B. Surface Preparation.** Portland cement concrete surfaces must be cleaned in accordance with Item 678, "Pavement Surface Preparation for Markings," to remove curing membrane, dirt, grease, old markings, and other forms of contamination.

Pavement to which material is to be applied must be completely dry. Pavements will be considered dry if, on a sunny day after observation for 15 minutes, no condensation occurs on the underside of a 1 ft. square piece of clear plastic that has been placed on the pavement and weighted on the edges.

- C. Application of Type I Profile Pavement Markings.** Portland cement concrete surfaces and asphaltic surfaces 3 years old or older must be further prepared for Type I profile markings, after cleaning, by placing a Type II marking as a sealer in accordance with Item 666, "Reflectorized Pavement Markings." Type II markings must be placed a minimum of 2 and a maximum of 30 calendar days in advance of placing Type I profile markings. Type II markings which become dirty due to inclement weather or road conditions must be cleaned by washing, brushing, compressed air, or other means approved by the Engineer, prior to application of Type I profile markings. If washing is used, the surface of Type II markings must become completely dry before placing Type I profile markings. Color, location, and configuration of Type II markings must be the same as that of Type I profile markings.

Apply Type I profile pavement marking material within temperature limits recommended by the material manufacturer. Apply Type I profile pavement markings on clean, dry pavement having a surface temperature above 50°F. Measure pavement temperature in accordance with Test Method TEX-829-b.

When Type I profile pavement marking application is by spray, and operations cease for 5 minutes or more, the spray head must be flushed by spraying pavement marking material into a pan or similar container until the pavement marking material being sprayed is at the proper temperature for application.



Unless otherwise directed, do not place Type I profile pavement marking materials on roadways between September 30 and March 1, subject to temperature and moisture limitations specified herein.

Type I profile markings must have a minimum thickness of 0.060 in. (60 mil) for edge line markings and 0.090 in. (90 mil) for gore and centerline/no-passing barrier line markings. In addition, at a longitudinal spacing indicated on the plans, the markings must be profiled in a vertical manner such that the profile is transverse to the longitudinal marking direction. The profile must not be less than 0.30 in. (300 mil) nor greater than 0.50 in. (500 mil) in height when measured above the normal top surface plane of the roadway. The transverse width of the profile must not be less than 3.25 in., and the longitudinal width not less than 1 in., when measured at the top surface plane of the profile bar. The profile may be either a 1 or 2 transverse bar profile. When the 2 transverse bar profile is utilized, the spacing between the bases of the profile bars must not exceed 0.50 in. The above transverse bar width is for each 4 in. of line width.

- D. Application of Type II Profile Pavement Markings.** The application of Type II profile marking materials must be done only on surfaces with a minimum surface temperature of 50°F.

Prior to applying Type II profile pavement markings, the pavement surface must be prepared by placing a Type II pavement marking in accordance with Item 666, "Reflectorized Pavement Markings," as a sealer.

In not less than 2 nor more than 30 calendar days after placement of the Type II pavement markings specified above, the Type II profile pavement markings must be placed. The Type II profile pavement markings must consist of a series of transverse dots a minimum of 0.50 in. in base diameter and 0.20 in. (200 mil) in height or transverse bars a minimum of 0.50 in. in base width and 0.20 in. (200 mil) in height with a longitudinal spacing and pattern as indicated on the plans. When the dot profile pattern is utilized, the number of dots utilized to define the line width must be 1 more than the line width in inches (example: for a 4 in. wide line, 5 dots must be used). When the bar profile is utilized, the bar's transverse length must be plus or minus 0.125 in. per 4 in. of line width.

- 5. Performance Period for Profile Pavement Markings.** Profile pavement markings must meet all requirements of this specification for a minimum of 15 calendar days after installation. Pavement markings that fail to meet all requirements of this specification must be removed and replaced by the contractor at the contractor's expense. Replace all pavement markings failing the requirements of this item within 30 calendar days following notification of such failing. All replacement markings must also meet all requirements of this item for a minimum of 15 calendar days after installation.
- 6. Measurement.** This Item will be measured by the foot of marking .

Where multiple stripes are placed, each stripe will be measured separately for payment.

This is a plans quantity measurement Item. The quantity to be paid is the quantity shown in the proposal, unless modified by Article 9.2, "Plans Quantity Measurement." Additional measurements or calculations will be made if adjustments of quantities are required.

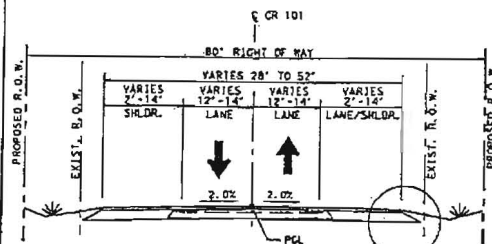


7. **Payment.** The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Reflectorized Profile Pavement Markings" of the various types, colors, shapes, sizes and widths specified. This price is full compensation for furnishing all materials; for application of pavement markings; and for equipment, labor, tools and incidentals.

Work-zone pavement markings (Type II paint and beads) used as a sealer for Type I profile markings (thermoplastic and beads) will be paid for under Item 662, "Work Zone Pavement Markings."

Surface preparation, when shown on the plans, will be paid for under Item 678, "Pavement Surface Preparation for Markings."

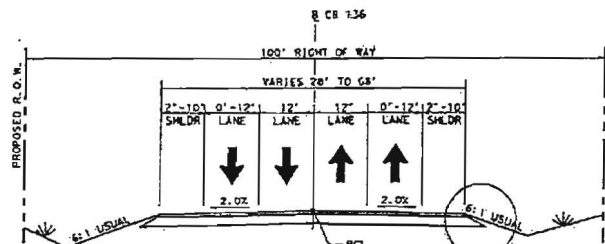
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CR 101 PROPOSED TYPICAL SECTION

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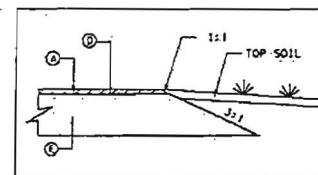
SEE DETAIL A



CR 136 PROPOSED TYPICAL SECTION

STA 102+00.00 TO STA 115+68.47 (US 79)

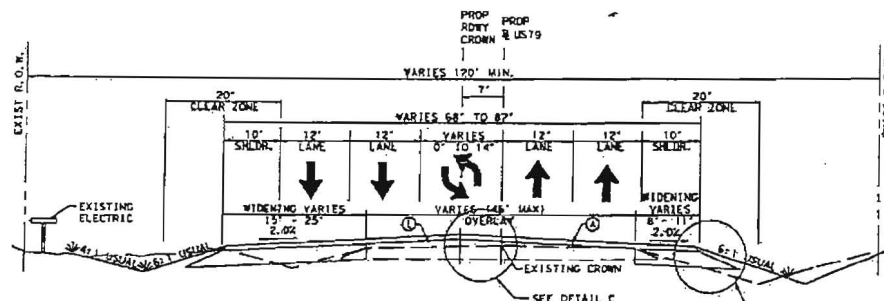
SEE DETAIL A



DETAIL A

LEGEND

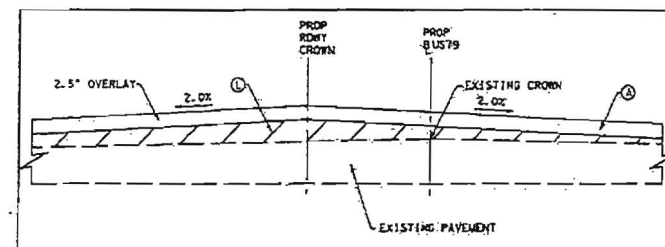
- ① 2.5" D-GR HMA (100A) TY-C SMA-A
- ② 2" D-GR HMA (100A) TY-C PG70-22
- ③ 3.5" D-GR HMA (100A) TY-B PG64-22
- ④ PRIME COAT (WC-30 OR AE-2)
- ⑤ 18" FL BS (CMP IN PLC) (TY A OR S)
- ⑥ (FINAL POS) (3-6" LIFTS)
- ⑦ 8" LINE TRT (EXST MATL)
- ⑧ 8" D-GR HMA (100A) TY-A PG64-22
- ⑨ VAR. DEPTH D-GR HMA (100A) TY-B PG64-22
- ⑩ SHOULDER TEXTURING (MILLED)
- ⑪ D-GR HMA (100A) TY-C PG64-22 (LEVEL-UP)



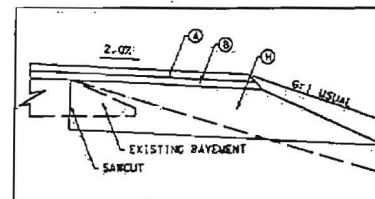
US 79 PROPOSED TYPICAL SECTION

STA 537+93.45 TO STA 573+53.50 (US 79)

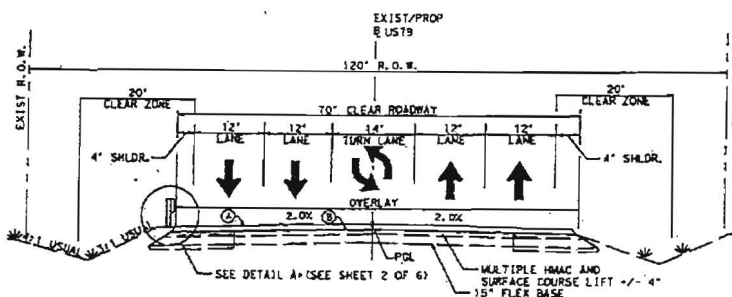
SEE DETAIL B



DETAIL C

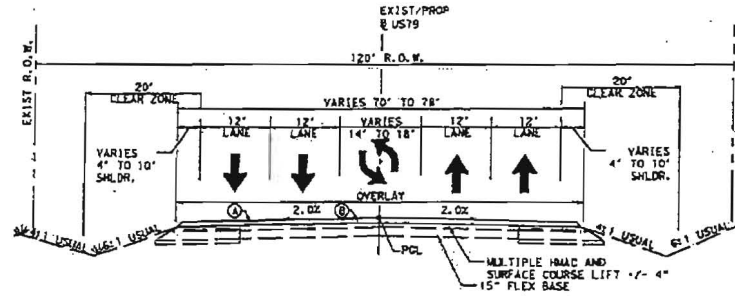


DETAIL B



US 79 PROPOSED TYPICAL SECTION (OVERLAY ONLY)

STA 573+53.50 TO STA 590+00.00 (US 79)  
STA 607+86.53 TO STA 610+55.46 (US 79)  
STA 585+46.20 TO STA 590+00.00 (US 79)



US 79 PROPOSED TYPICAL SECTION (OVERLAY ONLY)

STA 610+55.46 TO STA 617+10.57 (US 79)

SCALE: N.T.S.



▲ SPEC ITEMS, GENERAL NOTES & HMA

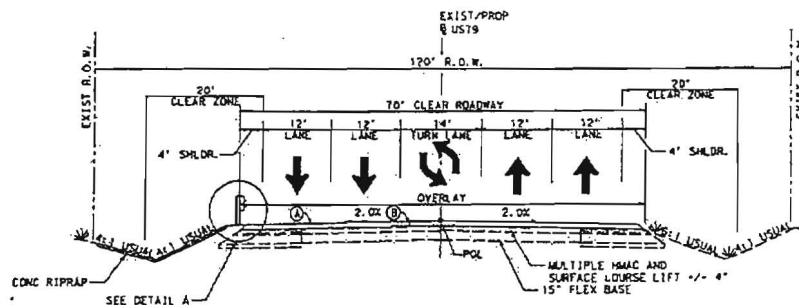
klotz associates  
Texas PE Firm Reg. # F-929

Texas Department of Transportation  
2010 TxDOT

US 79 SECTION 3  
PROPOSED  
TYPICAL SECTIONS

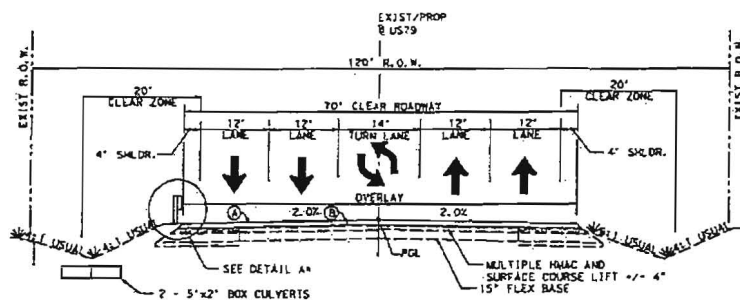
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STATE	COUNTY	
TEXAS	AUSTIN	WILLIAMSON
CONTRACT NO.	SECTION	JOB
0204	02	027, ETC.
		US 79

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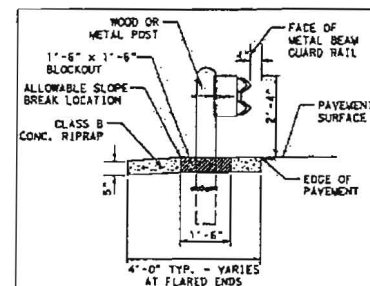
US 79 PROPOSED TYPICAL SECTION (OVERLAY ONLY)

STA 590+00.00 TO STA 593+90.88 (E US 79)



US 79 PROPOSED TYPICAL SECTION (OVERLAY ONLY)

STA 593+90.88 TO STA 607+86.53 (E US 79)  
\*STA 593+90.88 TO STA 595+37.29 (E US 79)



DETAIL A

SCALE: N.T.S.

# LEGEND

- (A) 2.5" D-CR HMA (10COA) TY-C SMA-A PG76-22 (SURF)
- (B) 2" D-CR HMA (10COA) TY-C PG70-22
- (C) 3.5" D-CR HMA (10COA) TY-B PG64-22
- (D) PRIME COAT (MC-30 OR AE-P)
- (E) 16" FL BS (CMP IN PLCTY A OR S) (FINAL POS) (3-6" LIFTS)
- (F) 8" LINE TRT (EXT MATL)
- (G) 8" D-CR HMA (10COA) TY-B PG64-22 (12" LIFTS)
- (H) YARL. DEPTH D-CR HMA (10COA) TY-B PG64-22
- (I) SHOULDER TEXTURING (MILLED)
- (J) D-CR HMA (10COA) TY-C PG64-22 (LEVEL-UP)



- △ SPEC ITEMS, GENERAL NOTES & HMA
- △ GENERAL NOTES & QUANTITIES

klotz associates  
TEXAS PE FIRM REG. # F-929

Texas Department of Transportation  
2010 TMDOT

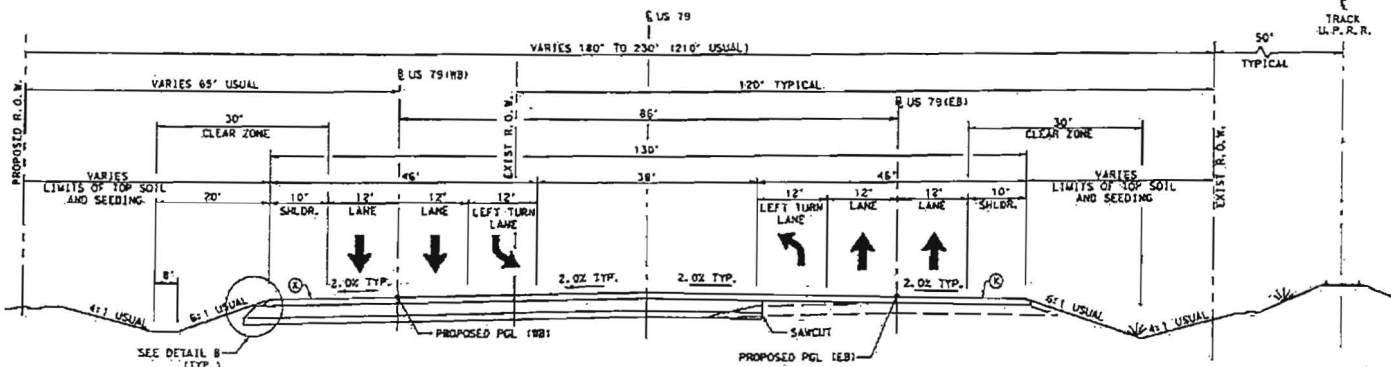
## US 79 SECTION 3 PROPOSED TYPICAL SECTIONS

SHEET 2 OF 6

STATE	PROJECT NO.	SHEET
TX	05W000X	2
COUNTY		
CONTRACT	WILLIAMSON	
SECTION	027, ETC.	US 79



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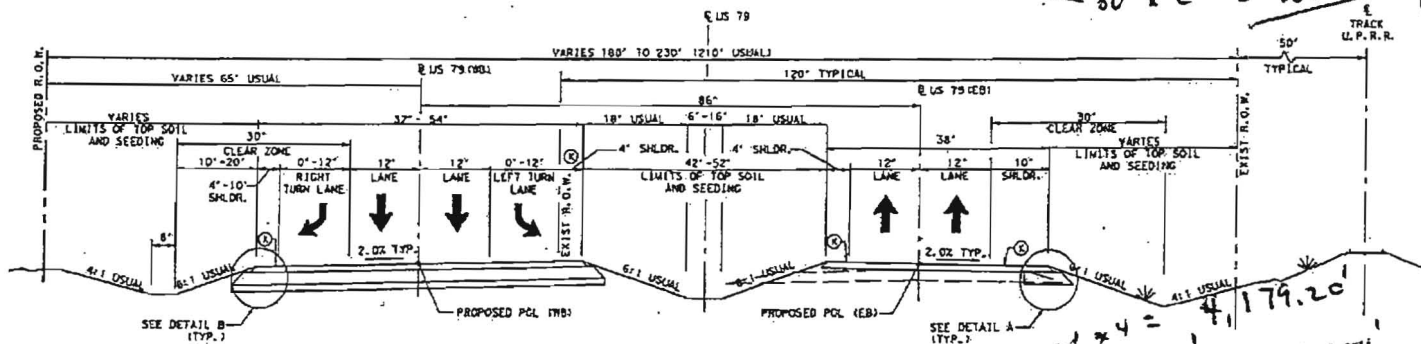


### US 79 PROPOSED MEDIAN CROSS-OVER TYPICAL SECTION

STA 636+55.34 TO STA 637+41.34 (E US 79)  
STA 676+49.86 TO STA 677+29.86 (E US 79)  
STA 716+17.02 TO STA 716+97.02 (E US 79)  
STA 741+78.33 TO STA 742+58.33 (E US 79)

$$\begin{aligned} 86' \times 2 &= 172' \\ 80' \times 2 &= 160' \\ 80' \times 2 &= 160' \\ 80' \times 2 &= 160' \end{aligned}$$

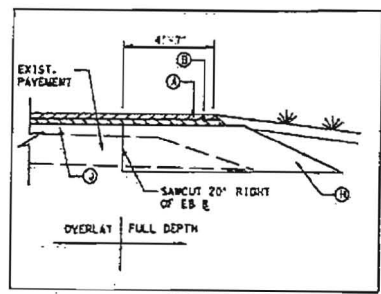
652'



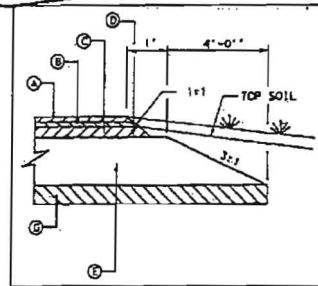
### US 79 PROPOSED TYPICAL SECTION

STA 637+41.34 TO STA 647+86.14 (E US 79)  
STA 716+97.02 TO STA 727+98.02 (E US 79)

$$\begin{aligned} 1044.80' \times 4 &= 4,179.20' \\ 1101.00' \times 4 &= 4,404' \end{aligned}$$



DETAIL A



DETAIL B

SCALE: N.T.S.

### LEGEND

- 1. 2.5" D-CR HMA (100CA) TY-C SMA-A PG76-22 (SURF)
- 2. 2" D-CR HMA (100CA) TY-C PG70-22
- 3. 3.5" D-CR HMA (100CA) TY-B PG64-22
- 4. PRIME COAT (MC-30 OR AE-P)
- 5. 16" FL BS (C&P IN PLC) (TY-A OR S) (FINAL POS) (3'-6" LIFTS)
- 6. 8" LIME TRT (EXT MATL)
- 7. 8" D-CR HMA (100CA) TY-A PG64-22 (12 LIFTS)
- 8. VAR. DEPTH D-CR HMA (100CA) TY-B PG64-22 SHOULDER TEXTURING UNILLED
- 9. D-CR HMA (100CA) TY-C PG64-22 (LEVEL-UP)



*David Wymore*  
6-24-10

△ SPEC ITEMS, GENERAL NOTES & HMA

klotz associates  
TEXAS PE FIRM REG. # F-929

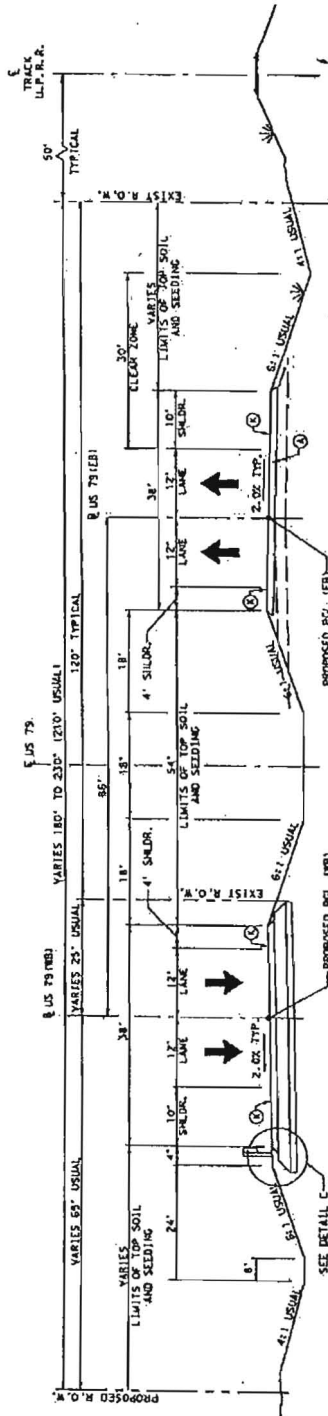
Texas Department of Transportation  
2010 T&B  
US 79 SECTION 3  
PROPOSED  
TYPICAL SECTIONS

SHEET 4 OF 6	PROJECT NO.	SHEET NO.
6	09W0000	10
STATE	DIST.	COUNTY
TEXAS	AUSTIN	WILLIAMSON
CDL	SECT.	HWY
0204	02	1027.67C
		US 79

SUB TOTAL: 2,797.60'  
9,235.20'

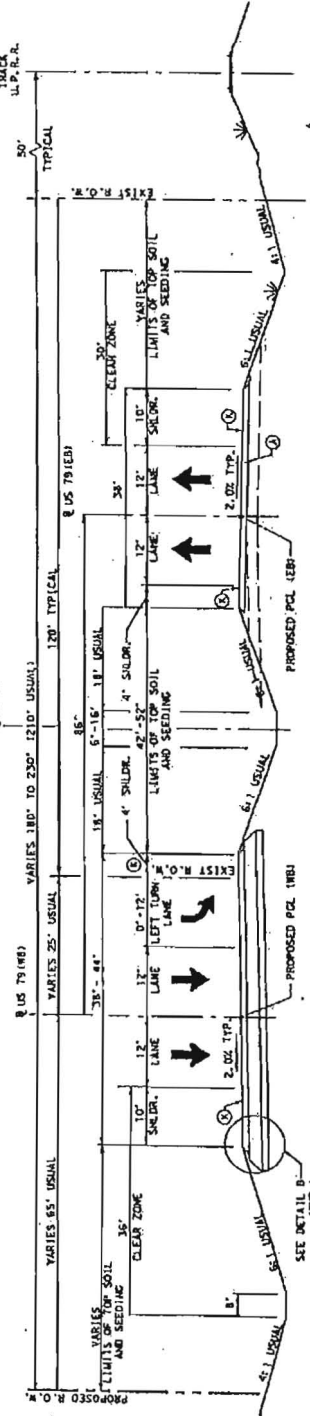
**LEGEND**

- 2.5" D-OR HMA (OCOA) TY-C SMA-A
- 2" D-OR HMA (OCOA) TY-C PG70-22
- 3.5" D-OR HMA (OCOA) TY-B PG64-22
- PRIME COAT MC-30 OR AE-3
- 1" D-OR HMA (OCOA) TY-A PG64-22
- 1" D-OR HMA (OCOA) TY-B PG64-22
- 2" LINE TEST (TEST WILL)
- 2" D-OR HMA (OCOA) TY-A PG64-22
- VAR. DEPTH D-OR HMA (OCOA) TY-B PG64-22
- SHOULDER TEXTURING (MILLED)
- D-OR HMA (OCOA) TY-C PG64-22 (LEVEL-UP)



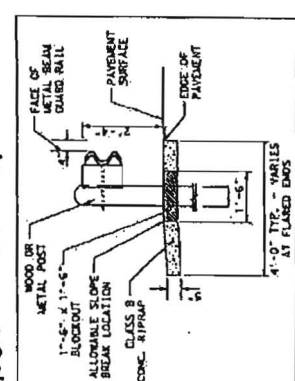
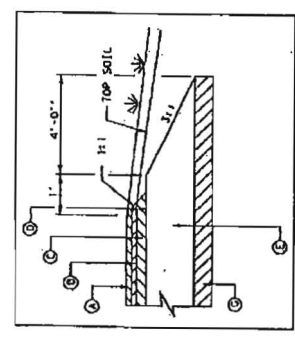
1812.52' X 4 = 7,250.08'  
 1660.16' X 4 = 6,640.64'  
 329.35' X 4 = 1,317.20'  
 300.67' X 4 = 1,202.68'

**US 79 PROPOSED TYPICAL SECTION**  
 STA 647+86.14 TO STA 665+98.66 (E US 79)  
 STA 687+81.06 TO STA 704+41.22 (E US 79)  
 STA 727+98.02 TO STA 731+27.32 (E US 79)  
 STA 753+09.33 TO STA 756+10.00 (E US 79)



1051.20' X 4 = 4,204.80'  
 1051.00' X 4 = 4,204.00'

**US 79 PROPOSED TYPICAL SECTION**  
 STA 677+29.96 TO STA 687+81.06 (E US 79)  
 STA 742+58.33 TO STA 753+09.33 (E US 79)



David Williams  
 6-24-10

A SPEC ITEMS, GENERAL NOTES & NMAC

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 Texas Department of Transportation  
 2010 14007

US 79 SECTION 3

PROPOSED

TYPICAL SECTIONS

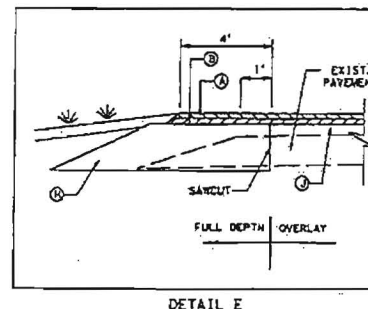
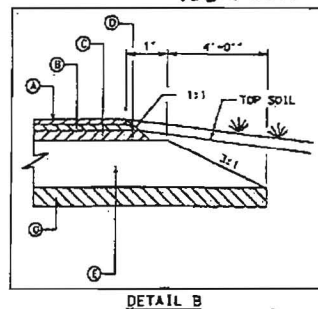
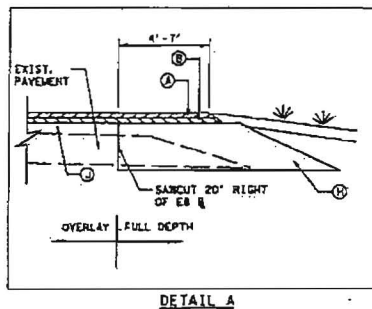
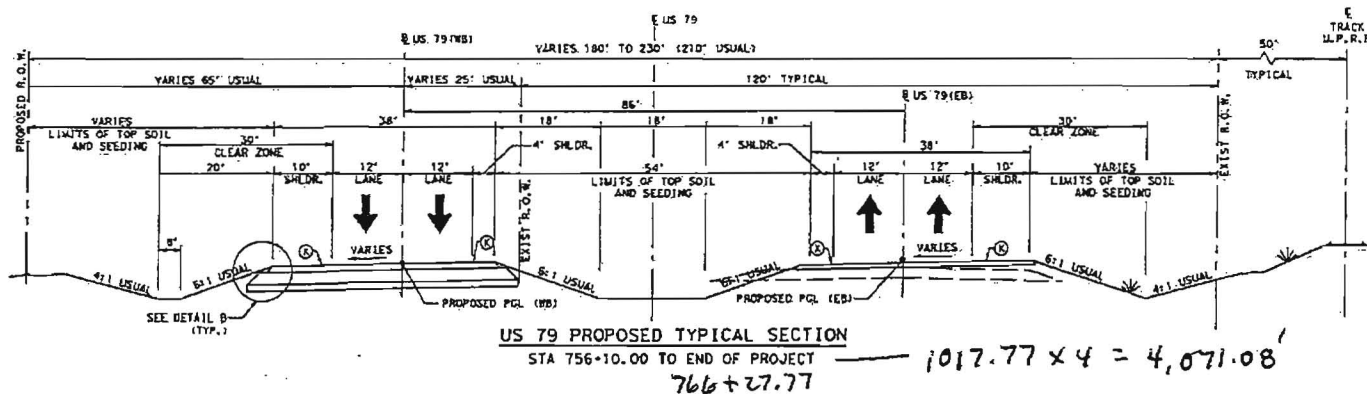
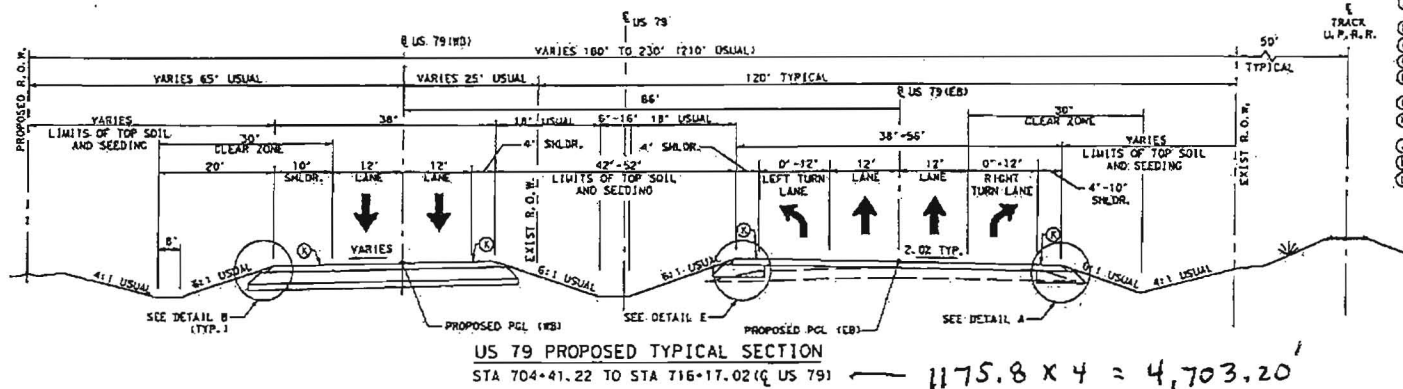
SHEET 5 OF 6	PROJECT NO.	DATE
US 79	08000000	11
TYPE	CONTRACT	WILLIAMSON
TEXAS	AUSTIN	WILLIAMSON
CONTRACT	NO.	11
SECTION	OF	11
DATE	OF	11

SCALE: N.T.S.

Sub TOTAL: 24,819.40'



FILE: #1.0510.004.000107.00 CADD\DWG\1041\1041TYP06.dwg  
DATE: 6/24/2010 4:18:21 PM



- LEGEND**
- ① 2.5" D-CR HMA (100CA) TY-C SMA-A PG78-22 (SURF)
  - ② 2" D-CR HMA (100CA) TY-C PG70-22
  - ③ 3.5" D-CR HMA (100CA) TY-B PG64-22
  - ④ PRIME COAT (MC-30 OR AE-P)
  - ⑤ 18" FL BS (CVP IN PLICITY A OR S1 (FALL POS) (3'-6" LIFTS)
  - ⑥ 8" LIME TST (EXST. MATL)
  - ⑦ 8" D-CR HMA (100CA) TY-A PG64-22 (2'-12" LIFTS)
  - ⑧ VAR. DEPTH D-CR HMA (100CA) TY-B PG64-22
  - ⑨ SHOULDER TEXTURING (WILLED)
  - ⑩ D-CR HMA (100CA) TY-C PG64-22 (LEVEL-UP)



*David Wymore*  
6-24-10

△ SPEC ITEMS, GENERAL NOTES & HMA-C

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Texas PE Firm Reg. # F-829

Texas Department of Transportation  
2010 T&B

US 79 SECTION 3  
PROPOSED  
TYPICAL SECTIONS

SHEET 6 OF 6	PROJECT NO.	SHEET 12
FILE NO.	09BCKX	
STATE	DIST.	COUNTY
TEXAS	AUSTIN	WILLIAMSON
CONTRACT NO.	SECTION	JOB
0204	02	K27, ETC.
		US 79

WHITE =  $29,834.38'$   
YELLOW =  $29,834.38' - 652' = 29,182.38'$

SUB TOTAL:  $8,774.28'$

### ESTIMATE SUMMARY

ITEM NO.	DESC.	SP NO.	DESCRIPTION	UNIT	TOTAL	
					EST.	FINAL
100	2002		PREPARING ROW	STA	254	
103	2001		DISPOSAL OF WATER WELLS	EA	3	
104	2006		REMOVING CONC (RIPRAP)	SY	2,595	
104	2017		REMOVING CONC (DRIVEWAY)	SY	421	
105	2011		REMOVING STAB BASE AND ASPH PAY (2'-6")	SY	1,783	
105	2016		REMOVING STAB BASE AND ASPH PAY (16")	SY	20,390	
106	2002		DEWATERING ABANDONED ROAD	SY	812	
110	2001		EXCAVATION (ROADWAY)	CY	57,222.2	
110	2002		EXCAVATION (CHANNEL)	CY	5,405	
132	2003		EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	108,414.2	
160	200X		FURNISHING AND PLACING TOPSOIL (5")	SY	215,101	
164	2035		DRILL SEEDING (PERM) (RURAL) (CLAY)	SY	219,101	
164	2041		DRILL SEEDING (TEMP) (RURAL)	SY	109,551	
164	2043		DRILL SEEDING (TEMP) (CDD)	SY	109,551	
169	2003		SOIL RETENTION BLANKETS (CL 1) (TY C)	SY	5,000.2	
247	2366		FL BS (COMP IN PLD) (TY A OR S) (FINAL POS)	CY	43,515	
250	2002		LIME HYDRATED LIME (SLURRY)	TON	1,455	
250	2007		LIME TRT (EXT MATL) (BT)	SY	86,345	
310	2005		PRIME COAT (AC-30 OR AC-1)	GA	42,721	
341	2004		D-GR HMA (LOCAL) TY-C PG 64-22	TON	29,577	
341	2011		D-GR HMA (LOCAL) TY-B PG 64-22	TON	30,194	
341	2050		D-GR HMA (LOCAL) TY-C PG 70-22	TON	25,688	
341	2253		D-GR HMA (LOCAL) TY-C PG 64-22 (LEVEL-UP)	TON	1,605	
402	2001		TRENCH EXCAVATION PROTECTION	LF	6,517	
430	2071		CL C CONC FOR EXT STRU (HMA)	CY	30	
430	2124		CL C CONC FOR EXT STRU (CLAY) (3'-6" X 4")	LF	22	
432	2019		RIPRAP (STONE PROTECTION) (12 IN)	CY	60	
432	2040		RIPRAP (MONSTRIP) (5 IN)	CY	93	
432	2065		RIPRAP (CONC) (CL B)	CY	143	
462	2001		CONC BOX CULV (3 FT X 2 FT)	LF	30	
462	2003		CONC BOX CULV (4 FT X 2 FT)	LF	246.25	
462	2004		CONC BOX CULV (4 FT X 3 FT)	LF	414	
462	2006		CONC BOX CULV (5 FT X 2 FT)	LF	2,480.25	
462	2007		CONC BOX CULV (5 FT X 3 FT)	LF	122	
462	2013		CONC BOX CULV (6 FT X 6 FT)	LF	815	
462	2019		CONC BOX CULV (8 FT X 4 FT)	LF	338	
462	2038		CONC BOX CULV (6 FT X 2 FT)	LF	50	
464	2003		RC PIPE (CL 1) (18 IN)	LF	425	
464	2006		RC PIPE (CL 1) (24 IN)	LF	522	
464	2021		RC PIPE (CL 1) (18 IN)	LF	50	
464	2022		RC PIPE (CL 1) (24 IN)	LF	50	
464	2027		RC PIPE (CL 1) (42 IN)	LF	360	
465	2164		INLET (STAGE 1) (TY A)	EA	3	
465	2169		INLET (COMPL) (DROPS) (TY 1)	EA	3	
465	2174		INLET (COMPL) (DROPS) (TY 1) (1 GRATE)	EA	3	
466	2047		WINGWALL (PR) (HW-3 FT)	EA	1	
466	2050		WINGWALL (PR) (HW-6 FT)	EA	3	
466	2051		WINGWALL (PR) (HW-7 FT)	EA	1	
466	2052		WINGWALL (PR) (HW-8 FT)	EA	1	
467	2127		SET (TY 1) (5'-4 FT) (HW-3 FT) (6'-1) (P)	EA	4	
467	2202		SET (TY 1) (5'-5 FT) (HW-2 FT) (6'-1) (P)	EA	4	
467	2182		SET (TY 1) (5'-5 FT) (HW-3 FT) (6'-1) (P)	EA	2	
467	2202		SET (TY 1) (5'-5 FT) (HW-2 FT) (6'-1) (P)	EA	4	
467	2236		SET (TY 1) (24 IN) (RCP) (6'-1) (C)	EA	3	
467	2286		SET (TY 1) (18 IN) (RCP) (6'-1) (P)	EA	23	
467	2288		SET (TY 1) (24 IN) (RCP) (6'-1) (P)	EA	12	
467	2293		SET (TY 1) (42 IN) (RCP) (6'-1) (P)	EA	6	
467	2351		SET (TY 1) (5'-4 FT) (HW-2 FT) (6'-1) (P)	EA	4	
496	2004		REMOV STR (SET)	EA	26	
496	2005		REMOV STR (WINGWALL)	EA	17	
496	2006		REMOV STR (HEADWALL)	EA	17	
496	2007		REMOV STR (PIPE)	LF	1,835	
496	2008		REMOV STR (BOX CULVERT)	LF	527	
500	2001		MOBILIZATION	LS	1	
502	2001		BARRICADES, SIGNS AND TRAF HANDLING	MO	45.25	
506	2002		ROCK FILTER DAMS (INSTALL) (TY 2)	LF	902	
506	2009		ROCK FILTER DAMS (REMOVE)	LF	902	
506	2016		CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	1,092	
506	2019		CONSTRUCTION EXITS (REMOVE)	SY	1,092	
506	2024		BACKHOE WORK (EROSION & SEDN CONT)	HR	60.25	

### ESTIMATE SUMMARY

ITEM NO.	DESC.	SP NO.	DESCRIPTION	UNIT	TOTAL	
					EST.	FINAL
506	2034		TEMPORARY SEDIMENT CONTROL FENCE	LF	18,698	
512	2048		PORT CTS (FUR & INST) (F-SHAPE) (TY 1)	LF	5,880	
512	2052		PORT CTS (REMOVE) (F-SHAPE) (TY 1)	LF	5,880	
530	2010		DRIVERWAYS (CONC)	SY	338	
530	2011		DRIVERWAYS (ACP)	SY	3,463	
535	2001		SHOULDER TEXTURING (GULLED)	STA	222	
540	2001		UTL W-BEAM-GD FEN YTH POST	LF	1,450	
540	2005		TERMINAL ANCHOR SECTION	EA	3	
540	2013		UTL BEAM-GD FEN TRANS (T101)	EA	2	
542	2001		REMOVING METAL BEAM GUARD FENCE	LF	2,335	
542	2002		REMOVING TERMINAL ANCHOR SECTION	EA	7	
544	2003		GUARDRAIL END TREATMENT (REMOVE)	EA	2	
544	2004		GUARDRAIL END TRT (INST) (WOOD POST) (TY 1)	EA	5	
545	2028		CRASH CUSH ATTEN (INSTALL) (QUAD) (IN)	EA	18	
545	2030		CRASH CUSH ATTEN (REMOVE) (QUAD) (IN)	EA	18	
560	2004		NAILBOX INSTALL-S (RC-POST) TY 3 FMO	EA	5	
644	2001		INS SH RD SN SUPPLY TY 10BNG (1) S&P	EA	119	
644	2004		INS SH RD SN SUPPLY TY 10BNG (1) S&P	EA	10	
644	2060		REMOVE SN SH SUP 4" (DOT) (OSOMIL)	EA	26	
658	2215		INSTR DEL ASSM 10-SB 52.2 (WC) GND	EA	40	
658	2315		INSTR ON ASSM (CM-27) (WC) GND	EA	30	
662	2001		WRK ZN PAV MRKR NON-REMOV (W) 4" (BRK)	LF	2,780	
662	2004		WRK ZN PAV MRKR NON-REMOV (W) 4" (SLD)	LF	23,660	
662	2012		WRK ZN PAV MRKR NON-REMOV (W) 8" (SLD)	LF	450	
662	2016		WRK ZN PAV MRKR NON-REMOV (W) 24" (SLD)	LF	69	
662	2017		WRK ZN PAV MRKR NON-REMOV (W) (ARROW)	EA	6	
662	2027		WRK ZN PAV MRKR NON-REMOV (W) (RORD)	EA	6	
662	2030		WRK ZN PAV MRKR NON-REMOV (TY 4" (BRK))	LF	6,790	
662	2032		WRK ZN PAV MRKR NON-REMOV (TY 4" (SLD))	LF	31,070	
662	2039		WRK ZN PAV MRKR NON-REMOV (TY 24" (SLD))	LF	410	
662	2064		WRK ZN PAV MRKR REMOV (W) 4" (BRK)	LF	206	
662	2067		WRK ZN PAV MRKR REMOV (W) 4" (SLD)	LF	3,224	
662	2084		WRK ZN PAV MRKR REMOV (W) (ARROW)	EA	31	
662	2097		WRK ZN PAV MRKR REMOV (TY 4" (BRK))	LF	1,280	
662	2098		WRK ZN PAV MRKR REMOV (TY 4" (SLD))	LF	5,080	
662	2106		WRK ZN PAV MRKR REMOV (TY 24" (SLD))	LF	745	
662	2113		WRK ZN PAV MRK SHI TERM (TAB) TY Y	EA	100	
662	2114		WRK ZN PAV MRK SHI TERM (TAB) TY Y	EA	100	
666	2002		REFL PAV MRK TY 1 (W) 4" (BRK) (OSOMIL)	LF	12,646	
666	2005		REFL PAV MRK TY 1 (W) 4" (DOT) (OSOMIL)	LF	713	
666	2011		REFL PAV MRK TY 1 (W) 4" (SLD) (OSOMIL)	LF	55,518	
666	2035		REFL PAV MRK TY 1 (W) 8" (SLD) (OSOMIL)	LF	12,968	
666	2047		REFL PAV MRK TY 1 (W) 24" (SLD) (OSOMIL)	LF	523	
666	2053		REFL PAV MRK TY 1 (W) (ARROW) (OSOMIL)	EA	60	
666	2095		REFL PAV MRK TY 1 (W) (WORD) (OSOMIL)	EA	49	
666	2104		REFL PAV MRK TY 1 (TY 4" (BRK) (OSOMIL)	LF	3,610	
666	2110		REFL PAV MRK TY 1 (TY 4" (SLD) (OSOMIL)	LF	57,557	
666	2131		REFL PAV MRK TY 1 (TY 24" (SLD) (OSOMIL)	LF	660	
666	2142		REFL PAV MRK TY 1 (W) 4" (BRK)	LF	12,646	
666	2143		REFL PAV MRK TY 1 (W) 4" (DOT)	LF	715	
666	2145		REFL PAV MRK TY 1 (W) 4" (SLD)	LF	55,518	
666	2153		REFL PAV MRK TY 1 (W) 8" (SLD)	LF	12,968	
666	2157		REFL PAV MRK TY 1 (W) 24" (SLD)	EA	523	
666	2160		REFL PAV MRK TY 1 (W) (ARROW)	EA	49	
666	2173		REFL PAV MRK TY 1 (W) (WORD)	EA	49	
666	2176		REFL PAV MRK TY 1 (W) 4" (BRK)	LF	2,610	
666	2178		REFL PAV MRK TY 1 (TY 4" (SLD)	LF	57,557	
666	2185		REFL PAV MRK TY 1 (TY 24" (SLD)	LF	660	
672	2012		REFL PAV MRK TY 1 - C	EA	1,485	
672	2015		REFL PAV MRK TY 1 - A-A	EA	994	
672	2017		REFL PAV MRK TY 1 - C-R	EA	286	
677	2001		ELIM EXT PAV MRK & MOCS (4")	LF	52,338	
5289	2007		MANHOLES (SANITARY SEWER) (TY 1)	EA	10	
5289	2017		SANITARY SEWER (WPC) (SDR-26) (TY 1)	LF	3,504	
5289	XXXX		SERVICE CONNECTION (SANITARY SEWER)	EA	1	
5289	XXXX		REMOVE MANHOLE	EA	6	

#0.26/LF

#0.26/LF

#0.08/LF

#0.08/LF

△ SPEC ITEMS, GENERAL NOTES & INAC  
△ GENERAL NOTES & QUANTITIES

klotz associates  
Texas PE Firm Reg. # F-929

SHEET 1 OF 1

PROJECT NO.	09W000	DATE	14
STATE	TEXAS	COUNTY	WILLIAMSON
DIST.	0204	SECTION	02
JOB	027, ETC.	REMARKS	US 79

US 79 SECTION 3  
E & Q SHEETS

✱

	644 2001 INS SH RD SH SUPBANK TY 10BNG (1) SA (P)	644 2004 INS SH RD SH SUPBANK TY 10BNG (1) SA (P)	644 2006 REMOVE SH RD SUPBANK TY 10BNG (1) SA (P)	658 2255 INSTL DEL ASSN SH RD ID 2 (W) END	658 2315 INSTL ON ASSN KON-2Y3 (W) END	664 2002 REFL PAV MRK TY 1 (W) 4" (BRK) (090 MTL)	666 2005 REFL PAV MRK TY 1 (W) 4" (DOT) (090 MTL)	666 2011 REFL PAV MRK TY 1 (W) 4" (SLD) (090 MTL)	666 2035 REFL PAV MRK TY 1 (W) 8" (SLD) (090 MTL)	666 2047 REFL PAV MRK TY 1 (W) 24" (SLD) (090 MTL)	666 2053 REFL PAV MRK TY 1 (W) 24" (SLD) (090 MTL)	666 2095 REFL PAV MRK TY 1 (W) 24" (SLD) (090 MTL)	666 2104 REFL PAV MRK TY 1 (W) 24" (SLD) (090 MTL)	666 2110 REFL PAV MRK TY 1 (W) 24" (SLD) (090 MTL)	666 2131 REFL PAV MRK TY 1 (W) 24" (SLD) (090 MTL)	666 2142 REFL PAV MRK TY 1 (W) 24" (SLD) (090 MTL)	666 2143 REFL PAV MRK TY 1 (W) 24" (SLD) (090 MTL)	
STA TO STA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA
US 79																		
BEGINNING TO STA. 532+00						460	1,907	113						260	2,480	115	460	
STA. 532+00 TO STA. 544+00	2		3			600	2,400							90	2,430	130	600	
STA. 544+00 TO STA. 556+00	4	3			3	600	2,550			50	2			600	2,630		600	
STA. 556+00 TO STA. 568+00						600	2,400				2			600	2,400		600	
STA. 568+00 TO STA. 580+00	5	1	5			530	2,735			45	2			530	2,400		530	
STA. 580+00 TO STA. 592+00	1	1	2			600	2,400				2			600	2,400		600	
STA. 592+00 TO STA. 604+00	1			8	5	600	2,400				2			600	2,400		600	
STA. 604+00 TO STA. 616+00	3			4		600	2,400				2			330	3,490	360	600	
STA. 616+00 TO STA. 628+00	5				4	600	100	2,400	450		2		2	2,660	65	600	100	
STA. 628+00 TO STA. 640+00	1					600	150	2,400	65				1	2,405		600	150	
STA. 640+00 TO STA. 652+00	13		1		3	600	2,400	1,300	100	7	5		5	2,400		600		
STA. 652+00 TO STA. 664+00	4	1	3		3	600	300	2,400	1,360	4	4		4	2,400		600	300	
STA. 664+00 TO STA. 676+00	4					600	15	2,400	851	2	3		3	2,400		600	15	
STA. 676+00 TO STA. 688+00	11					570	15	2,400	860	90	4		3	2,210		570	15	
STA. 688+00 TO STA. 700+00	4	1	2			600	2,400							2,400		600		
STA. 700+00 TO STA. 712+00	4	2	5	12	4	600	30	2,400	1,045		3		4	2,400		600	30	
STA. 712+00 TO STA. 724+00	23	2	10	10	3	560	2,574	2,350	130	8	7		7	2,466		560		
STA. 724+00 TO STA. 736+00	3	1	3			600	43	2,400	704	3	3		3	2,400		600	43	
STA. 736+00 TO STA. 748+00	12			1	5	570	2,400	1,078	90	4	4		4	2,208		570		
STA. 748+00 TO STA. 760+00	1			2		600	35	2,400	359	1	7		7	2,400		600	35	
STA. 760+00 TO STA. 770+00	5	1				415	15	1,850	1,655					1,655		415	15	
STA. 770+00 TO END	1					151	10	602	508	2	2		2	603		151	10	
SUB TOTAL	107	10	36	40	30	12,256	715	50,818	12,828	505	59	46	3,610	52,607	660	12,256	715	
CR 136																		
BEGINNING TO END	6					350	2,650		18		1			2,700		350		
SUB TOTAL	6					350	2,650	0	18	0	1			2,700	0	350		
CR 101 & FM 3349																		
BEGINNING TO END	6					40	2,250	140		1	2			2,250		40		
SUB TOTAL	6					40	2,250	140		1	2			2,250		40		
TOTAL	119	10	36	40	30	12,646	715	55,518	12,968	523	60	49	3,610	57,557	660	12,646	715	

	666 2153 REFL PAV MRK	666 2153 REFL PAV MRK	666 2157 REFL PAV MRK	666 2173 REFL PAV MRK	666 2176 REFL PAV MRK	666 2178 REFL PAV MRK	666 2145 REFL PAV MRK	672 2012 REFL PAV MRK	672 2015 REFL PAV MRK	672 2017 REFL PAV MRK
	TY 11 (W) 4" (SLD)	TY 11 (W) B" (SLD)	TY 11 (W) 24" (SLD)	TY 11 (W) LARRON)	TY 11 (W) WOPD)	TY 11 (Y) 4" (BRK)	TY 11 (Y) 4" (SLD)	TY 11 (Y) 24" (SLD)	TY 11 A-A	TY 11 C-R
	LF	LF	LF	EA	EA	LF	LF	LF	EA	EA
US 78										
STA. 532-00 TO STA. 532-00	1,907	113				260	2,480	115	38	120
STA. 532-00 TO STA. 544-00	2,400					90	3,400	130	30	100
STA. 544-00 TO STA. 556-00	2,350		50	2		600	2,630		42	60
STA. 556-00 TO STA. 568-00	2,400			2		600	2,400		30	60
STA. 568-00 TO STA. 580-00	2,733		45	2		530	2,400		26	60
STA. 580-00 TO STA. 592-00	2,400			2		600	2,400		30	60
STA. 592-00 TO STA. 604-00	2,400			2		600	2,400		30	60
STA. 604-00 TO STA. 616-00	2,400			2		330	3,490	350	30	70
STA. 616-00 TO STA. 628-00	2,400	450		2	2		2,660	65	24	12
STA. 628-00 TO STA. 640-00	2,400	65			1		2,405			30
STA. 640-00 TO STA. 652-00	2,400	1,500	100	7	5		2,400		150	4
STA. 652-00 TO STA. 664-00	2,400	1,360		4	4		2,400		136	30
STA. 664-00 TO STA. 676-00	2,400	851		2	3		2,400		85	30
STA. 676-00 TO STA. 688-00	2,400	880	90	4	3		2,210		91	28
STA. 688-00 TO STA. 700-00	2,400						2,400			30
STA. 700-00 TO STA. 712-00	2,400	1,045		3	4		2,400		105	30
STA. 712-00 TO STA. 724-00	2,574	2,350	130	8	7		2,466		219	6
STA. 724-00 TO STA. 736-00	2,400	704		3	3		2,400			30
STA. 736-00 TO STA. 748-00	2,400	1,078	90	4	4		2,708		107	30
STA. 748-00 TO STA. 760-00	2,400	369		1	1		2,400		36	36
STA. 760-00 TO STA. 770-00	2,850	1,565		7	7		1,655		156	22
STA. 770-00 TO END	602	508		2	2		603		51	8
SUB TOTAL	50,618	12,829	505	53	46	3,610	52,607	660	1,486	612
CR 136										
BEGINNING TO END	2,650		18		1		2,700			270
SUB TOTAL	2,650	0	18	0	1		2,700	0	0	270
CR 101 & PM 3349										
BEGINNING TO END	2,250	140		1	2		2,250		12	112
SUB TOTAL	2,250	140		1	2		2,250		12	112
TOTAL	55,518	12,969	523	60	48	3,610	57,557	660	1,498	624

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DATE: 1/26/2010 10:37:42 AM

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klotz  associates  
TEXAS PE FIRM REG. # F-929



Texas Department of Transportation  
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US 79 SECTION 3  
SUMMARY OF QUANTITIES  
SIGNING, STRIPING &  
DELINEATION

SHEET 3 OF 7

FILE NO.	PROJECT NO.	SPCL NO.
6	09WPC00X	17
STATE	CITY	COUNTY
TEXAS	AUSTIN	WILLIAMSON
CONTRACT	SECTION	WARRANTY NO.
0206	02 027 ETC	115 79