

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 4

1. CONTRACTOR: James Construction Group
2. Change Order Work Limits: Sta. 10+35.82 to Sta. 12+32.41
3. Type of Change (on federal-aid non-exempt projects): Minor (Major/Minor)
4. Reasons: 4D (3 Max. - In order of importance - Primary first)

Project: 22IFB139

Roadway: FM 3349

CSJ Number: Williamson Co

5. Describe the work being revised:

3. County Convenience. 4D Other "Deletion of work requested by the City of Hutto": This Change Order eliminates City of Hutto 16-inch water main line relocations project and 50 LF of 16-inch water line relocation under City of Hutto water line casing project from the original scope of work. The omission of work was requested by the City of Hutto. The cost for restocking of the ordered material and any other related fee is 100% reimbursable by the City of Hutto.

6. Work to be performed in accordance with Items: See Attached
7. New or revised plan sheet(s) are attached and numbered: C-002, C-100, C-401, C-201, C-202
8. New Special Provisions/Specifications to the contract are attached: ☐ Yes ☒ No
9. New Special Provisions to Item N/A No. N/A, Special Specification Item N/A are attached.
- Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

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.	The following information must be provided Time Ext. #: _____ Days added on this CO: _____ Amount added by this change order: <u>(\$472,492.20)</u>
THE CONTRACTOR Date <u>7-25-23</u> By <u>[Signature]</u> Typed/Printed Name <u>Joseph Williams</u> Typed/Printed Title <u>Division Manager</u>	

RECOMMENDED FOR EXECUTION:

[Signature] 7/25/2023
Project Manager Date

N/A
Design Engineer Date

Christen Echberger 7/27/2023
Program Manager Date

[Signature] 8/1/2023
City of Hutto Engineer Date

Design Engineer's Seal:

County Commissioner Precinct 1 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 2 Date
☐ APPROVED ☐ REQUEST APPROVAL

Valerie Covey Aug 8, 2023

County Commissioner Precinct 3 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 4 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Judge Date
☐ APPROVED

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 4

Project # 22IFB139

TABLE A: Force Account Work and Materials Placed into Stock

	LABOR	HOURLY RATE		HOURLY RATE

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
CIP11.06.B	Trench Excavation Safety Protection Systems (All Depths)	LF	\$3.50	953.00	\$3,335.50	(953.00)	0.00	\$0.00	(\$3,335.50)
G1.05.A	Furnish, Install, and Maintain Traffic Control Plan and Traffic Control Devices along waterline route with signage, safety barriers, appurtenances, in accordance with Texas Manual on Uniform Traffic Control Devices (Latest Edition); Complete in Place	LS	\$50,000.00	1.00	\$50,000.00	(1.00)	0.00	\$0.00	(\$50,000.00)
W1.17.A	Restrained Pipe, 16" Dia. DI CL-250, Complete in Place, Including Excavation and Backfill	LF	\$195.00	257.00	\$50,115.00	(257.00)	0.00	\$0.00	(\$50,115.00)
SP.W1.17.F	Ductile Iron Fittings (C-153 Weight Schedule)	TON	\$62,297.00	1.10	\$68,526.70	(1.10)	0.00	\$0.00	(\$68,526.70)
SP.W2.10.D16	Restrain Existing PVC Pipe. 16" Dia.	EA	\$6,302.00	1.00	\$6,302.00	(1.00)	0.00	\$0.00	(\$6,302.00)
SP.W2.10.E	Demolition shown on drawing 01C-01, including but not limited to removal of 70 LF of abandoned 16" waterline; Complete in Place	LS	\$9,311.00	1.00	\$9,311.00	(1.00)	0.00	\$0.00	(\$9,311.00)
SP.W2.10.G16	16" Wet Connection	EA	\$10,313.00	1.00	\$10,313.00	(1.00)	0.00	\$0.00	(\$10,313.00)
SP.W3.21.H	Line Stop, 16" Dia.	EA	\$30,885.00	1.00	\$30,885.00	(1.00)	0.00	\$0.00	(\$30,885.00)
SP.W3.21.I	Pressure Tap, 16"x16"	EA	\$54,428.00	2.00	\$108,856.00	(2.00)	0.00	\$0.00	(\$108,856.00)
SP.W3.21.J	Valves, Insertion, 16" Dia., Hydra-Stop Insta-Valve 250 Patriot Series or other approved equal, Including cost of installation on active water line, use of concrete thrust blocks and Megalugs, Complete in Place	EA	\$69,279.00	1.00	\$69,279.00	(1.00)	0.00	\$0.00	(\$69,279.00)
501S-30	Jacking or Boring, 30" Steel Pipe, ASTM A134	LF	\$1,746.00	20.00	\$34,920.00	(20.00)	0.00	\$0.00	(\$34,920.00)
SP.W3.21.F	Relocation of approximately 50 LF of 16" waterline as shown on sheet 01C-03 including but not limited to furnishing and installing 16" C900 DR 21 pipe, fittings, gate valves, and fire hydrant with appurtenances. Complete in place	LS	\$44,313.00	1.00	\$44,313.00	(1.00)	0.00	\$0.00	(\$44,313.00)
COH-16WL-RF	Restocking fees associated with the delivered materials	LS	\$13,664.00	0.00	\$0.00	1.00	1.00	\$13,664.00	\$13,664.00
TOTALS					\$486,156.20			\$0.00	(\$472,492.20)

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

FM3349 at US 79

Williamson County Project No. 22IFB139

Change Order No. 4

Reason for Change

This Change Order removes the City of Hutto 16-inch water main line relocations project and 50 LF of 16-inch water line relocation materials under City of Hutto water line casing project from the original scope of work. The deletion of work was requested by the City of Hutto. The cost for restocking of any ordered materials and any other work already performed as of the date of the change is 100% reimbursable by the City of Hutto. Please see the attached Change Order for additional details.

This Change Order results in a net decrease of \$472,492.20 to the Contract amount, for an adjusted Contract total of \$82,671,203.15. The original Contract amount was \$81,941,038.13. As a result of this and all Change Orders to-date, \$730,165.02 has been added to the Contract, resulting in an 0.89% 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.

HNTB Corporation

Oscar Salazar-Bueno, P.E.

DATE: 7/6/2023



RE:
FM3349
ASIF MIRZAZADA
22IFB139

[illegible]



Patin Construction LLC

3800 W. Second Street

Taylor, TX 76574

Phone: (512) 269-1071

Fax: (512) 269-1072

CHANGE ORDER

May 23, 2023

JAMES CONSTRUCTION GROUP

Email: Hector Garcia, Kyle Oldham

Project Name: FM 3349 at US 79- Water Line scope

Item No.	Qty.	Unit	Description		Unit Price	Total
303	-1	LS	Trench Safety System Plan	\$	2,500.00	(2,500.00)
304	-953	LF	Trench Excavation Safety Protection Systems (All Depths)	\$	3.00	(2,859.00)
305	-1	LS	Furnish, Install, and Maintain Traffic Control Plan and Traffic Control Devices along waterline route with signage, safety barriers, appurtenances, in accordance with Texas Manual on Uniform Traffic Control Devices (Latest Edition); Complete in Place	\$	10,000.00	(10,000.00)
306	-257	LF	Restrained Pipe, 16" Dia. DI CL-250, Complete in Place, Including Excavation and Backfill	\$	190.00	(48,830.00)
311	-1.1	TON	Ductile Iron Fittings (C-153 Weight Schedule)	\$	9,500.00	(10,450.00)
312	-1	EA	Restrained Existing PVC Pipe, 16" Dia.	\$	15,500.00	(15,500.00)
313	-1	LS	Demolition shown on drawing 01C-01, including but not limited to removal of 70 LF of abandoned 16" waterline; Complete in Place	\$	14,250.00	(14,250.00)
314	-1	EA	16" Wet Connection	\$	14,250.00	(14,250.00)
315	-1	LS	Relocation of approximately 50 LF of 16" waterline as shown on sheet 01C-03 including but not limited to furnishing and installing 16" C900 DR 21 pipe, fittings, gate valves, and fire hydrant with appurtenances.	\$	57,000.00	(57,000.00)
316	-1	EA	Complete in place	\$	33,250.00	(33,250.00)
317	-2	EA	Line Stop, 16" Dia.	\$	76,000.00	(152,000.00)
318	-1	EA	Pressure Tap, 16"x16"	\$		
320	-20	LF	Valves, Insertion, 16" Dia., Hydra-Stop Insta-Valve 250 Patriot Series or other approved equal, Including cost of installation on active water line, use of concrete thrust blocks and Megalugs, Complete in Place	\$	71,250.00	(71,250.00)
1	1	LS	Jacking or Boring, 30" Steel Pipe, ASTM A134	\$	1,710.00	(34,200.00)
			Restock fees associated with removing materials from scope that had already been ordered	\$	13,664.00	13,664.00
Hutto Water Subtotal						(452,675.00)

TOTAL CHANGE ORDER #6 \$ (452,675.00)

*Hutto Water Plan Changes, 5-16-2023

Subcontractor:

BY: Jeff Birkhead

Patin Construction, LLC

General Contractor

BY:

James Construction

From: Wiley Webb <wwebb@DCS-ENGINEERING.COM>
Sent: Thursday, May 11, 2023 4:34 PM
To: Oscar Salazar-Bueno; Matt Rector; Asif Mirzazada; Todd Meaker
Cc: 61272_FM3349AtUS79; Steven Shull; David Thornhill; Darren Strozewski; Brandon Psencik; Jessica Purcell
Subject: RE: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE
Attachments: Plans-DCS.pdf; 16-Inch WL Relocation Bid Items-DCS.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Oscar,

Please see attached markups of the plans and bid items for all 16" WL Relocation work to be deleted from the scope of the SE Loop project. Let me know if you need anything else.

Thanks,



Wiley Webb
Project Manager
Class A W & WW Operator
1101 S. Capital of Texas Hwy, Building G-100
Austin, Texas 78746
Main: 512.614.6171
Cell: 512.736.0278
<http://www.DCS-Engineering.com>



From: Oscar Salazar-Bueno <osalazarbueno@HNTB.com>
Sent: Wednesday, May 10, 2023 3:20 PM
To: Wiley Webb <wwebb@DCS-ENGINEERING.COM>; Matt Rector <Matt.Rector@HuttoTX.gov>; Asif Mirzazada <amirzazada@hntb.com>; Todd Meaker <Todd.Meaker@HuttoTX.gov>
Cc: 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>; Steven Shull <sshull@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Darren Strozewski <DStrozewski@DCS-ENGINEERING.COM>; Brandon Psencik <BPscnik@DCS-ENGINEERING.COM>; Jessica Purcell <jpurcell@dc-engineering.com>
Subject: RE: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE

Wiley,

The Change Orders do not start with the contractor. If the COH wants to delete scope from our project, please provide revised plan sheets showing the modifications ASAP. We need to communicate to the contractor what materials will not be needed. Otherwise the City will be responsible for re-stocking fees.

Thanks,

Oscar Salazar-Bueno, PE
Sr. Resident Engineer
Williamson County Road Bond Program
Tel (512) 527-6734 Mobile (737) 237-3581 Email osalazarbueno@hntb.com

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From: Wiley Webb <wwebb@DCS-ENGINEERING.COM>
Sent: Thursday, May 4, 2023 6:41 PM
To: Matt Rector <Matt.Rector@HuttoTX.gov>; Asif Mirzazada <amirzazada@hntb.com>; Todd Meaker <Todd.Meaker@HuttoTX.gov>
Cc: 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>; Steven Shull <sshull@HNTB.com>; Oscar Salazar-Bueno <osalazarbueno@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Darren Strozewski <DStrozewski@DCS-ENGINEERING.COM>; Brandon Psencik <BPscnik@DCS-ENGINEERING.COM>; Jessica Purcell <jpurcell@dc-engineering.com>
Subject: RE: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE

Asif,

- We have no objections to moving the casing pipe by 2 ft as marked up on the attached. Please proceed forward. Redline the plans as needed for the SE Loop contractor to make the change.
- DCS will issue a Field Order to the Contractor building the Frameswitch Pumping Station to notify them of the 2 ft adjustment to the south and provide 2 ft longer spool piece on the pipe they will be installing as part of their project for the City.
- DCS will notify the design engineer (STV) of the 2 ft adjustment to the south for their plans to connect to the 36" pipes on the west side of the SE Loop right of way.
- Per attached email, please direct the contractor to provide a Change Order to remove the 16" WL Relocation work from the SE Loop project. The City will be relocating the 16" WL as part of the Frameswitch Pump Station project. We understand that the SE Loop contractor has not ordered or acquired the materials for this work.

Let me know if you have any questions or need anything else on these two items.

Thanks,



Wiley Webb
Project Manager
Class A W & WW Operator
1101 S. Capital of Texas Hwy, Building G-100
Austin, Texas 78746
Main: 512.614.6171
Cell: 512.736.0278
<http://www.DCS-Engineering.com>



From: Matt Rector <Matt.Rector@HuttoTX.gov>
Sent: Thursday, April 20, 2023 2:26 PM
To: Asif Mirzazada <amirzazada@hntb.com>; Todd Meaker <Todd.Meaker@HuttoTX.gov>
Cc: 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>; Steven Shull <sshull@HNTB.com>; Oscar Salazar-Bueno <osalazarbueno@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Wiley Webb <webb@DCS-ENGINEERING.COM>; Darren Strozewski <DStrozewski@DCS-ENGINEERING.COM>
Subject: RE: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE

Asif,

I just got off of call with Wiley and Darren from DCS. I believe Wiley will be reaching out to discuss.

Thank you,

Matt Rector
City Engineer
Engineering | City of Hutto

From: Asif Mirzazada <amirzazada@hntb.com>
Sent: Thursday, April 20, 2023 2:24 PM
To: Todd Meaker <Todd.Meaker@HuttoTX.gov>; Matt Rector <Matt.Rector@HuttoTX.gov>
Cc: 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>; Steven Shull <sshull@HNTB.com>; Oscar Salazar-Bueno <osalazarbueno@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Wiley Webb <webb@DCS-ENGINEERING.COM>
Subject: RE: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE

Todd,

Contractor is proposing to move the WL 2 feet from originally planned location first and then 16-inch WL can be abandoned later. This change on sequence of work will allow contractor to install proposed 36-inc WL sooner.

We can redline the drawings if this 2 ft offset request is acceptable and will not negatively impact the design.

Thank you,

Asif Mirzazada
Sr. Field Engineer
Williamson County Road Bond Program
Mobile (512) 987-9179 Email amirzazada@hntb.com

From: Todd Meaker <Todd.Meaker@HuttoTX.gov>
Sent: Thursday, April 20, 2023 1:27 PM
To: Asif Mirzazada <amirzazada@hntb.com>; Matt Rector <Matt.Rector@HuttoTX.gov>
Cc: 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>; Steven Shull <sshull@HNTB.com>; Oscar Salazar-Bueno <osalazarbueno@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Wiley Webb <webb@DCS-ENGINEERING.COM>
Subject: RE: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE

Matt,

This is the 16" Hutto waterline that we already discussed this morning.

Asif,

I have had multiple discussions this morning after the discussion in the field. This 16" waterline is proposed to be moved in this plan set. If we cannot move the waterline first per plan then you will need DCS to review their design to insure that this will not negatively affect the other portions of this design.



Todd Meaker
Senior Construction Inspector
Engineering & Public Works

T: (512) 639-8840
E: todd.meaker@huttotx.gov
W: www.huttotx.gov

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From: Asif Mirzazada <amirzazada@hntb.com>
Sent: Thursday, April 20, 2023 12:51 PM
To: Matt Rector <Matt.Rector@HuttoTX.gov>; Todd Meaker <Todd.Meaker@HuttoTX.gov>
Cc: 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>; Steven Shull <sshull@HNTB.com>; Oscar Salazar-Bueno <osalazarbueno@HNTB.com>; David Thornhill <dthornhill@HNTB.com>; Wiley Webb <webb@DCS-ENGINEERING.COM>
Subject: FW: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE

Good afternoon Matt,
Please see attached RFI for your review.

Contractor have identified an existing 12-inch WL that is in conflict with the proposed southern 36-inch WL at FM 3349. This issue has been discussed with Todd on the field and the Contractor is requesting to offset the southern WL 2 feet to the south from the line originally planned location to avoid this conflict.

Please let me know if you have any questions.

Thank you.

Asif Mirzazada
Sr. Field Engineer
Williamson County Road Bond Program
Mobile (512) 987-9179 Email amirzazada@hntb.com

From: Hector Garcia <hector.garcia@prim.com>
Sent: Thursday, April 20, 2023 12:32 PM
To: David Garza <David.Garza@patincon.com>; Asif Mirzazada <amirzazada@hntb.com>
Cc: Jeff Birkhead <jeff@patincon.com>; Kyle Oldham <koldham@prim.com>; Dalimar Rosario <drosario@prim.com>; Gary Couch <gcouch@prim.com>; 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>
Subject: RE: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE

Asif,

Marked up document is attached. Per our discussions in the owners' meeting today, the move to the South was discussed and ok'd by Hutto water this morning

From: David Garza <David.Garza@patincon.com>
Sent: Wednesday, April 19, 2023 8:12 AM
To: Asif Mirzazada <amirzazada@hntb.com>; Hector Garcia <hector.garcia@prim.com>
Cc: Jeff Birkhead <jeff@patincon.com>; Kyle Oldham <koldham@prim.com>; Dalimar Rosario <drosario@prim.com>; Gary Couch <gcouch@prim.com>; 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>
Subject: RE: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you have verified the sender and know the content is safe. If this message is suspicious, please use the Report Phish button to notify IT.

Good morning Asif,

I apologize for the delayed response; I was in meetings yesterday afternoon. Bryant and Frey uncovered a 20" to 24" casing with a 12" white pipe inside. We would like to move south 2 ft to avoid this conflict so we can continue working. Please let us know as soon as you can.

Thank you.

David Garza
Project Manager // Patin Construction
o: 512-640-4213 // c: 512-426-6916
<https://patinconstruction.com/>

From: Asif Mirzazada <amirzazada@hntb.com>
Sent: Tuesday, April 18, 2023 2:55 PM
To: Hector Garcia <hector.garcia@prim.com>
Cc: David Garza <David.Garza@patincon.com>; Jeff Birkhead <jeff@patincon.com>; Kyle Oldham <koldham@prim.com>; Dalimar Rosario <drosario@prim.com>; Gary Couch <gcouch@prim.com>; 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>
Subject: RE: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE

Hector,
What utility is in conflict with proposed water line? Please clarify the confliction.

Thank you.

Asif Mirzazada
Sr. Field Engineer
Williamson County Road Bond Program
Mobile (512) 987-9179 Email amirzazada@hntb.com

From: Hector Garcia <hector.garcia@prim.com>
Sent: Tuesday, April 18, 2023 2:33 PM
To: Asif Mirzazada <amirzazada@hntb.com>
Cc: David Garza <David.Garza@patincon.com>; Jeff Birkhead <jeff@patincon.com>; Kyle Oldham <koldham@prim.com>; Dalimar Rosario <drosario@prim.com>; Gary Couch <gcouch@prim.com>; 61272_FM3349AtUS79 <61272_FM3349AtUS79@HNTB.com>
Subject: 3486-01-008 - RFI #10906-021 - HUTTO 48IN CASING BORE

Asif,

Attached is RFI #10906-021 regarding a utility conflict with the proposed southern bore for the 48in casing. Please review and expedite if at all possible so that Bryant & Frey can continue.

Thanks!

Hector Garcia
Project Engineer
PSC – James Construction Group

Cell: 254-370-2064
hector.garcia@prim.com

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**BID FORM
WILLIAMSON COUNTY, TEXAS**

BID FORM (FROM ADDENDUM 2)						
BID ITEM	TECH SPEC ¹	DESCRIPTION	BID QUANTITY	UNIT MEASURE	JCG BID UNIT PRICE	AMOUNT BID
284	J106-33	Connect New 12" to Existing 12", Installed	4	EA	19,084.00	\$ 76,336.00
285	J106-34	Temporary Connection of New 6" to Existing 6", Installed	1	EA	3,541.00	\$ 3,541.00
286	J106-35	Connect New 4" to Existing 4", Installed	1	EA	2,110.00	\$ 2,110.00
287	J106-36	Connect New 4" to Existing 3", Installed	1	EA	1,719.00	\$ 1,719.00
288	J106-37	Connect New 3" to Existing 3", Installed	1	EA	1,522.00	\$ 1,522.00
289	J106-38	Connect New 2" to Existing 2", Installed	2	EA	1,446.00	\$ 2,892.00
290	J106-39	24" Plug; Installed	3	EA	9,066.00	\$ 27,198.00
291	J106-40	New Fire Hydrants Assembly; Complete and Installed	9	EA	8,456.00	\$ 76,104.00
292	J106-41	8" Pressure Reducing Valve, Vault and Assembly, Installed	1	EA	49,068.00	\$ 49,068.00
293	J106-42	Water Service; 5/8" X 3/4" W/ 1" Service Tap; Complete and Installed	1	EA	4,072.00	\$ 4,072.00
294	J106-43	Relocate and Reconnect Water Service; To Include New Service lines, Fittings, Boxes, and Lids; Complete and Installed	5	EA	2,037.00	\$ 10,185.00
295	J106-44	Remove Existing Gate Valve	3	EA	675.00	\$ 2,025.00
296	J106-45	Cap and Grout Fill Abandoned Various Size Waterlines within TxDOT/R.R. R.O.W.; Complete, to Include Required Caps, Materials, Equipment, and Labor	2,330	LF	19.00	\$ 44,270.00
297	J106-46	Remove and Replace Existing Reinforced Concrete Drive, to Saw Cutting and Compacted Gravel Trench Backfill; Complete	73	SF	182.62	\$ 13,331.26
298	J106-47	Compacted Gravel Drive Replacement, to Include Compacted Gravel Trench Backfill; Installed	537	SF	4.29	\$ 2,303.73
299	J106-48	Hydro-Mulch Seeding Project; Complete	1	SF	1.00	\$ 1.00
300	J106-49	Trench Safety System Design and Implementation	18,671	LF	3.50	\$ 65,348.50
301	J106-50	Traffic Control Plan Development and Implementation	1	LS	25,000.00	\$ 25,000.00
302	J106-51	SWPPP Design and Implementation	1	LS	20,000.00	\$ 20,000.00
		CITY OF HUTTO WATERLINE - 16" WATER MAIN RELOCATION				
303	GP14-06.A	Trench Safety System Plan	1	LS	1,695.00	\$ 1,695.00
304	GP14-06.B	Trench Excavation Safety Protection Systems (All Depths)	063	LF	3.60	\$ 2,268.00
305	G4-06.A	Furnish, Install, and Maintain Traffic Control Plan and Traffic Control Devices along waterline route with signage, safety barriers, appurtenances, in accordance with Texas Manual on Uniform Traffic Control Devices (latest Edition); Complete in Place	1	LS	50,000.00	\$ 50,000.00
306	W4-17.A	Restrained Pipe, 16" Dia. DI-CL 260, Complete in Place, Including Excavation and Backfill	352	LF	105.00	\$ 36,960.00
311	GP-W4-17.F	Ductile Iron Fittings (C-153 Weight Schedule)	1.10	TON	82,297.00	\$ 90,526.70
312	GP-W2-10-B46	Restrain Existing PVC Pipe, 16" Dia.	1	EA	5,982.00	\$ 5,982.00
313	GP-W2-10-E	Demolition shown on drawing G4G-04, including but not limited to removal of 70 LF of abandoned 16" waterline; Complete in Place	1	LS	9,311.00	\$ 9,311.00
314	GP-W3-10-G46	16" Wet Connection	1	EA	10,313.00	\$ 10,313.00
316	GP-W3-21.H	Line Stop, 16" Dia.	1	EA	39,895.00	\$ 39,895.00
317	GP-W3-21.I	Pressure Tap, 16"x16"	2	EA	54,428.00	\$ 108,856.00

FM 3349 WIDENING (North of CR 404) Thru New Interchange at US 79 Includes JSUD Utility Relo		US 79 Widening		CR 101 (North of 'Jughandle' Intersection) & Other Utilities	
CSJ: 3486-01-008		CSJ: 0204-02-034		Williamson County	
QUANTITY	COST	QUANTITY	COST	QUANTITY	COST
4.00	\$ 76,336.00		\$ -		\$ -
1.00	\$ 3,541.00		\$ -		\$ -
1.00	\$ 2,110.00		\$ -		\$ -
1.00	\$ 1,719.00		\$ -		\$ -
1.00	\$ 1,522.00		\$ -		\$ -
2.00	\$ 2,892.00		\$ -		\$ -
3.00	\$ 27,198.00		\$ -		\$ -
9.00	\$ 76,104.00		\$ -		\$ -
1.00	\$ 49,068.00		\$ -		\$ -
1.00	\$ 4,072.00		\$ -		\$ -
5.00	\$ 10,185.00		\$ -		\$ -
3.00	\$ 2,025.00		\$ -		\$ -
2,330.00	\$ 44,270.00		\$ -		\$ -
73.00	\$ 13,331.26		\$ -		\$ -
537.00	\$ 2,303.73		\$ -		\$ -
1.00	\$ 1.00		\$ -		\$ -
18,671.00	\$ 65,348.50		\$ -		\$ -
1.00	\$ 25,000.00		\$ -		\$ -
1.00	\$ 20,000.00		\$ -		\$ -
	\$ -		\$ -	1.00	\$ 1,000.00
	\$ -		\$ -	053.00	\$ 3,936.60
	\$ -		\$ -	1.00	\$ 60,000.00
	\$ -		\$ -	257.00	\$ 50,145.00
	\$ -		\$ -	1.10	\$ 60,626.70
	\$ -		\$ -	1.00	\$ 6,902.00
	\$ -		\$ -	1.00	\$ 9,011.00
	\$ -		\$ -	1.00	\$ 10,343.00
	\$ -		\$ -	1.00	\$ 30,686.00
	\$ -		\$ -	2.00	\$ 100,650.00

¹Refer to the Technical Specifications section for a description of the specific reference number.

BID FORM
WILLIAMSON COUNTY, TEXAS

BID FORM (FROM ADDENDUM 2)						
BID ITEM	TECH SPEC ¹	DESCRIPTION	BID QUANTITY	UNIT MEASURE	JCG BID UNIT PRICE	AMOUNT BID
318	SP.W3.21.J	Valve Insertion 16" (or, Wye) Step into 16" (or 24") Street Casing or 16" (or 24") Street Casing, including cost of installation on active water line, use of concrete thrust blocks and Megalug, Complete in Place	1	EA	60,370.00	\$ 60,370.00
320	E01S-30	Jacking or Boring, 30" Steel Pipe, ASTM A131	20	LF	1,746.00	\$ 34,920.00
CITY OF HUTTO WATERLINE- CASINGS PROJECT						
307	W1.17.G	Furnish and install 36" Ductile Iron Pipe Carrier Pipe (Class 200 psi) including excavation, ground and surface water dewatering, embedment, backfill, metallic underground warning tape, adaptors, couplings, joint restraints, polyethylene wrap, surface restoration, disposal of excess material, incidental work not covered by other bid items, 3/8" F bedding and backfill, and appurtenances, Complete in Place	964	LF	586.00	\$ 564,904.00
308	W1.17.H	Furnish and install 36" Ductile Iron restrained M.J. Plug (Class 200 psi) per AWWA C153, Complete in Place	4	EA	12,110.00	\$ 48,440.00
309	W4.05.A	Furnish and install 48-inch steel casing pipe by open cut, not including 36" carrier pipe, with appurtenances, Complete in Place	672	LF	751.00	\$ 504,672.00
310	SP.W1.17.I	Furnish and install 36" Ductile Iron restrained M.J. 90 degree bend (Class 200 psi) per AWWA C153, Complete in Place	4	EA	19,622.00	\$ 78,488.00
315	SP.W3.21.J	Relocation of approximately 60 LF of 16" waterline as shown on sheet 01C-03 including but not limited to furnishing and installing 16" Class 200 DR-21 pipe, fittings, gate valves, and fire hydrant with appurtenances, Complete in place	1	LD	44,319.00	\$ 44,319.00
319	E01S-48	Jacking or Boring, 36" steel pipe, ASTM A131	268	LF	1,407.00	\$ 377,076.00
UPRR SPECIFICATION ITEMS						
321	UPRR 02 41 00	Remove Rail Bridge 149.31	1	LS	54,769.14	\$ 54,769.14
322	UPRR 32 31 10	ROW Fence	5000	LF	30.85	\$ 154,250.00
323	UPRR 33 42 00	GRANULAR BEDDING (FNAL POS) (UPRR 9x6 CULV ADD'L 6 IN DEPTH BEDDING)	270	CY	144.36	\$ 38,977.20
324	UPRR 33 42 16	6 - (9 FT X 6 FT) Conc Box Culv (Incl 18in Bedding)	1,056	LF	1,786.54	\$ 1,886,586.24
325	UPRR 33 42 16	Culvert End Treatment (Incl 18in Bedding)	2	EA	163,261.39	\$ 326,522.78
326	UPRR 34 11 10	CLEARING AND GRUBBING	4.40	AC	2,732.30	\$ 12,022.12
327	UPRR 34 11 10	Temporary Special Shoring per UPRR 01 71 23 & Temporary Handrail	480	SF	240.78	\$ 115,574.40
328	UPRR 34 11 10	Turnout - #15 POTO 136# ISHH CWR, Wood Ties, w/ SPRG (With HST) (Phase 1)	1	EA	366,850.00	\$ 366,850.00
329	UPRR 34 11 10	Shoofly Track - Construct 136# ISHH CWR, Wood Ties (Phase 1)	1,905	TF	435.00	\$ 828,675.00
330	UPRR 34 11 10	Shift Mainline Track - 30% Tie Replacement Materials Only	861	TF	100.00	\$ 86,100.00
331	UPRR 34 11 10	Wye Track - Construct 136# ISHH CWR, Wood Ties (Phase 1)	237	TF	490.00	\$ 116,130.00
332	UPRR 34 11 10	Deraill - DPSS (Phase 1)	1	EA	35,050.00	\$ 35,050.00
333	UPRR 34 11 10	Remove Track & Dispose (Phase 1)	370	TF	62.00	\$ 22,940.00
334	UPRR 34 11 10	Shift Wye Track - 30% Tie Replacement (Phase 1)	314	TF	225.00	\$ 70,650.00
335	UPRR 34 11 10	Dispose Track	141	TF	80.00	\$ 11,280.00
336	UPRR 34 11 10	Dispose Ties	218	EA	35.00	\$ 7,630.00
337	UPRR 34 11 10	Remove #15 RH POTO (Phase 2)	1	EA	28,575.00	\$ 28,575.00
338	UPRR 34 11 10	Remove DPSS (Phase 2)	1	EA	7,550.00	\$ 7,550.00
339	UPRR 34 11 10	Shift Mainline Track - 0% Tie Replacement Materials Only	861	TF	80.00	\$ 68,880.00

QUANTITY AND COST BREAKOUT BY CSJ					
FM 3349 WIDENING (North of CR 404) Thru New Interchange at US 79 Includes JSUD Utility Relo		US 79 Widening		CR 101 (North of 'Jughandle' Intersection) & Other Utilities	
CSJ: 3486-01-008		CSJ: 0204-02-034		Williamson County	
QUANTITY	COST	QUANTITY	COST	QUANTITY	COST
	\$ -		\$ -	1.00	\$ 60,370.00
	\$ -		\$ -	20.00	\$ 34,920.00
	\$ -		\$ -		
	\$ -		\$ -		
	\$ -		\$ -		
	\$ -		\$ -	964.00	\$ 564,904.00
	\$ -		\$ -	4.00	\$ 48,440.00
	\$ -		\$ -	672.00	\$ 504,672.00
	\$ -		\$ -	4.00	\$ 78,488.00
	\$ -		\$ -	1.00	\$ 44,319.00
	\$ -		\$ -	268.00	\$ 377,076.00
	\$ -		\$ -		
1.00	\$ 54,769.14		\$ -		\$ -
5,000.00	\$ 154,250.00		\$ -		\$ -
270.00	\$ 38,977.20		\$ -		\$ -
1,056.00	\$ 1,886,586.24		\$ -		\$ -
2.00	\$ 326,522.78		\$ -		\$ -
4.40	\$ 12,022.12		\$ -		\$ -
480.00	\$ 115,574.40		\$ -		\$ -
1.00	\$ 366,850.00		\$ -		\$ -
1,905.00	\$ 828,675.00		\$ -		\$ -
861.00	\$ 86,100.00		\$ -		\$ -
237.00	\$ 116,130.00		\$ -		\$ -
1.00	\$ 35,050.00		\$ -		\$ -
370.00	\$ 22,940.00		\$ -		\$ -
314.00	\$ 70,650.00		\$ -		\$ -
141.00	\$ 11,280.00		\$ -		\$ -
218.00	\$ 7,630.00		\$ -		\$ -
1.00	\$ 28,575.00		\$ -		\$ -
1.00	\$ 7,550.00		\$ -		\$ -
861.00	\$ 68,880.00		\$ -		\$ -

¹Refer to the Technical Specifications section for a description of the specific reference number.



C-001	COVER
C-002	GENERAL NOTES
C-100	KEYMAP
C-101	EROSION AND SEDIMENTATION CONTROL PLAN
C-201	WATER LINE "A" PLAN AND PROFILE
C-202	WATER LINE "A" TEMPORARY BYPASS PLAN
C-601 TO C-603	WATER STANDARD DETAILS

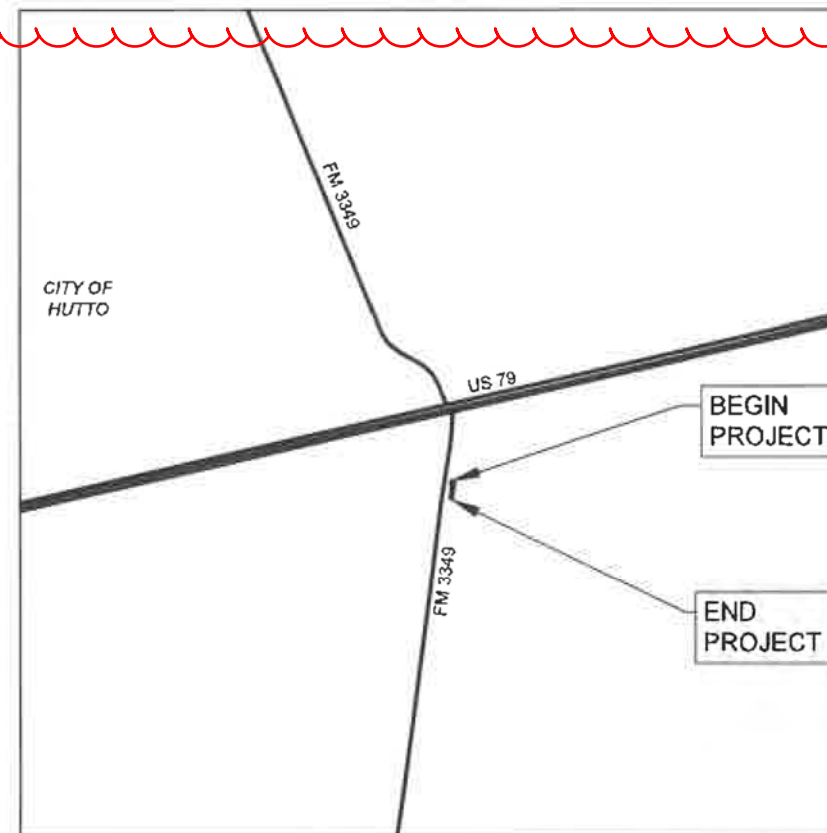
~~FM 3349 HUTTO 16" WATER MAIN
RELOCATION~~

~~TOTAL LENGTH OF PROJECT: 230 LF~~

~~PROJECT LIMITS: ALONG FM 3349, 700 LF SOUTH OF FM 3349 AND US 79~~

REMOVE PLAN
SET IN ITS
ENTIRETY

~~RELOCATION OF 16" WATER MAIN WITH VALVES, APPURTENANCES,
ENCASEMENT PIPE, INCLUDING CONNECTIONS ONTO EXISTING 16" MAIN~~



VICINITY MAP
(NOT TO SCALE)

OWNER:
CITY OF HUTTO
500 W LIVE OAK ST
HUTTO, TEXAS 78634

CONTACT:
PADMA PATLA, P.E.
512-759-4025

DESIGNER:
COBB FENDLEY
505 EAST HUNTLAND DRIVE, SUITE 100
AUSTIN, TEXAS 78752

CONTACT:
KRISTEN VAN HOOSIER, P.E.
512-834-9798

SUBMITTED FOR APPROVAL:



KRISTEN VAN HOOSIER, P.E.
COBBFENDLEY, INC.

4/14/2022

DATE _____

APPROVALS:

PADMA PATLA, P.E.
PROJECT MANAGER,
CITY OF HUTTO

DATE _____

CITY OF HUTTO ENGINEERING
500 W. LIVE OAK ST
HUTTO, TX 78634
512-759-5989

[illegible]

TBPELS NO. 274
505 EAST HUNTLAND DRIVE, SUITE 100
AUSTIN, TEXAS 78752
512.834.9798 | FAX 512.834.7727
WWW.CORBENOLEY.COM

D:\1 Info: g:\CFA\2014\0308801_willamson_county_2013_road_bond\MUN\40_fm3349_hutto\DESIGN\C-002-GNOT.dwg -- Tab: GNOT-01 -- Plotted: 7/19/2022 4:40 PM By: KRISTEN VAN HOOSIER

City Of Hutto - General Construction Notes
Updated March 2019

- The contractor is to contact one of the following:
Texas811 811
Lone star 1-800-669-8344
For location of existing facilities at least 48 hours prior to commencement of any construction activities.
- Prior to any construction, the design engineer shall convene a preconstruction conference between the City of Hutto, himself, the contractor, other utility companies, any affected parties and any other entity the City or engineer may require. If construction is not started on the site within 30 calendar days prior to the pre-construction conference, the engineer shall convene a new preconstruction conference between the City of Hutto, himself, and all the above mentioned entities.
- Prior to any changes to the construction site, video of the site must be taken and provided to the City before construction commences.
- All construction operations shall be performed in accordance with City of Hutto Engineering Manual and standard construction specifications and details. If City of Hutto Engineering Manual unavailable, or not applicable, refer to TxDOT and/or City of Georgetown Manual, standards and/or specifications.
- All storm sewer bends and wyes shall be prefabricated.
- All storm sewer mains to be field-tested for water tightness no sooner than 30 days after total completion of the storm sewer lines.
- All storm sewer mains to be video taped by camera no sooner than 30 days after total completion of the storm sewer lines. Two digital copies shall be supplied to the City before closeout. All storm sewer conduits will be inspected by the city before city acceptance, video must show details of all irregularities or offsets (minimum 10 seconds of video time).
- All construction operations shall be accomplished in accordance with applicable regulations of the U.S. Occupational Safety and Health Administration. OSHA standards may be purchased from the government printing office; information and related reference materials may be purchased from OSHA, 611 e. 6th Street, Austin, Texas.
- Contractor shall take all due precautions to protect existing facilities from damage. Any damage incurred to existing facilities as a result of construction operations to be repaired immediately by the contractor, at no additional cost to owner.
- Contractor to give notice to all authorized inspectors, superintendents or persons in charge of public and private utilities affected by his operations at least 48 hours prior to commencement of work.

Page 1 of 3

- Contractor to comply with all applicable local, state, and federal requirements regarding excess and waste material, including methods of handling and disposal.
- Contractor to coordinate interruptions of all utilities and services. All work to be in accordance with the requirements of the applicable utility company or agency involved.
- When un-located or incorrectly located, a break in utility lines, or other utilities and services are encountered during site work operations, contractor shall notify the applicable utility company immediately to obtain procedure directions. Contractor shall cooperate with the applicable utility company in maintaining active services in operation.
- Contractor to locate, protect, and maintain benchmarks, monuments, control points and project engineering reference points. Re-establish disturbed or destroyed items by registered professional land surveyor in the State of Texas, at no additional cost to owner.
- When construction is being carried out within easements, the contractor shall confine his work to within the permanent and temporary easements. Prior to final acceptance, the contractor shall be responsible for removing all trash and debris within the permanent and temporary easements. Clean-up shall be to the satisfaction of the engineer.
- The contractor and the engineer shall keep accurate records of all construction that deviates from the plans. Accurate "record" drawings will be provided to the City of Hutto, along with a letter certification from a registered professional engineer licensed in the State of Texas, stating that said project has been constructed in accordance with these plans, prior to the owner being issued a certification of completion and final acceptance. These "record" drawings shall meet with the satisfaction of the Engineering and Development Services Departments prior to final acceptance.
- Contractor shall strip six (6) inches of topsoil from all areas subject to grade modification. Remove all areas of weak soil.
- The contractor shall protect all existing fences. In the event that a fence must be removed, the contractor shall replace said fence or portion thereof with the same type of fencing to a quality of equal or better than the original fence.
- Upon completion of the project, the site(s) as defined herein shall be cleaned of all debris and left in a neat and presentable condition.
- All adjoining pavement sections shall be protected during all phases of construction and any damages incurred due to contractor's operation shall be repaired and/or replaced at the contractor's expense.
- Contractor to control dust caused by the work and comply with pollution control regulations of governing authorities (no separate pay).
- Traffic controls to be installed in accordance with the current TxDOT manual on uniform traffic control devices and TxDOT barricade and construction standards.
- Revegetate all disturbed areas upon completion of the work per City of Georgetown construction standards.

Page 2 of 3

- Contractor to exercise caution during construction near and around gas lines and power lines.
- No work is to be performed between the hours of 6:00 p.m. and 7:00 a.m. all work requiring City inspection shall be performed Monday thru Friday. The City reserves the right to require the contractor to uncover all work performed without inspection.
- The Contractor shall determine the exact location vertically and horizontally of all existing utilities prior to commencing work, and shall notify the engineer and the City if the existing utility location and depths are different from what is shown on the plans. The contractor agrees to be fully responsible for any and all damages which might be associated by the contractor's failure to exactly locate and preserve any and all underground utilities.
- All Fire Lines shall be ductile iron.
- Detectable tape shall be used for all underground utilities. Tape must be 12" wide 5 mil with applicable color and label.
- Contractor will be responsible for keeping roads and drives adjacent to and near the site free from soil, sediment and debris. Contractor will not remove soil, sediment or debris from any area or vehicle by means of water, only shoveling and sweeping will be allowed. Contractor will be responsible for dust control from the site.
- The Contractor shall be responsible for all damage to private property which occurs as a result of any portion of this project. Any damage to private property shall be repaired to equal or better condition. The Contractor shall pay and/or settle with private property owner(s) for all cost related to damage. The City will not provide separate pay for repair of damages, reimbursements or settlements.

NOTE: ALL STEEL AND IRON MATERIALS MUST COMPLY WITH 23 USC 635.410 PROVISIONS OF BUY AMERICA. FORM 1818 (MATERIAL STATEMENT), ALONG WITH ALL REQUIRED ATTACHMENTS MUST BE SUBMITTED AND APPROVED PRIOR TO THE COMMENCEMENT OF ANY INSTALLATION, AS EVIDENCE OF COMPLIANCE WITH AFOREMENTIONED PROVISIONS.

Page 3 of 3

City of Hutto - Erosion, Sedimentation and Tree Protection Notes
Updated August 2018

- The Contractor to install and maintain erosion/sedimentation controls and tree/natural area protective fencing prior to any site preparation work (clearing, grubbing, grading, or excavation). Contractor to remove erosion/sedimentation controls at the completion of the project and grass restoration.
- The placement of erosion/sedimentation controls to be in accordance with the approved erosion and sedimentation control plan and water pollution abatement plan. Deviations from the approved plan must be submitted to and approved by the owner's representative.
- All planting shall be done between May 1st and September 15th except as specifically authorized in writing. Planting is authorized to be done outside the date specified, the seed shall be planted with the addition of winter fescue (Kentucky 31) at a rate of 100 lbs/acre. Grass shall be common Bermuda Grass, hulled, minimum 82% pure live seed. All grass seed shall be free from noxious weed, grade "A" recent crop, cleaned and treated with appropriate fungicide at time of mixing. Seed shall be furnished in sealed, standard containers with dealer's guaranteed analysis.
- All disturbed areas to be restored as noted in the water pollution abatement plan.
- The planted area to be irrigated or sprinkled in a manner that will not erode the topsoil, but will sufficiently soak the soil to a depth of four inches (4"). The irrigation to occur at 10-day intervals during the first two months to insure germination and establishment of the grass. Rainfall occurrences of one half and inch (1/2") or greater to postpone the water schedule one week.
- Restoration to be acceptable when the grass has grown at least one and one half inches (1.5") high with 95% coverage, provided no bare spots larger than twenty-five square feet exist.
- A minimum of four inches (4") of topsoil to be place in all area disturbed by construction.
- The contractor to hydro mulch or sod (as shown on plans) all exposed cuts and fills upon completion of construction.
- Erosion and sedimentation controls to be installed or maintained in a manner which does not result in soil buildup within tree drip line.
- To avoid soil compaction, contractor shall not allow vehicular traffic, parking, or storage of equipment or materials in the tree drip line area.
- Where a fence is closer than four feet (4') to a tree trunk, protect the trunk with strapped-on planking to a height of eight feet (8'), or the limits of lower branching, in addition to the fencing.
- Trees to be removed in a manner which does not impact trees to be preserved.
- Any root exposed by the construction activity to be pruned flush with the soil. Backfill root area with good quality topsoil as soon as possible. If exposed root areas are not

Page 1 of 2

backfilled within two days, cover them with organic matter in a manner which reduces soil temperature and minimizes water loss due to evaporation.

- Contractor to prune vegetation to provide clearance for structure, vehicular traffic, and equipment before damage occurs (ripping of branches, etc.). All finished pruning to be done according to recognized, approved standards of the industry (reference the "National Arborist Association Pruning Standards for Shade Trees").
- The contractor is to inspect the controls at weekly intervals and after every rainfall exceeding one-quarter inch (1/4") to verify that they have not been significantly disturbed. Any accumulated sediment after a significant rainfall to be removed and placed in the owner designated spoil disposal site. The contractor to conduct periodic inspections of all erosion/sedimentation controls and to make any repairs or modifications necessary to assure continued effective operation of each device.
- Where there is to be an approved grade change, impermeable paving surface, tree well, or other such site development immediately adjacent to a protected tree, erect the fence approximately two to four feet (2'-4') behind the area in question.
- No above and/or below ground temporary fuel storage facilities to be stored on the project site.
- If erosion and sedimentation control systems are existing from prior contracts, owner's representative and the contractor to examine the existing erosion and sedimentation control systems for damage prior to construction. Any damage to preexisting erosion and sedimentation controls noted to be repaired at owner's expense.
- Intentional release of vehicle or equipment fluids onto the ground is not allowed. Contaminated soil resulting from accidental spill to be removed and disposed of properly.

Page 2 of 2

City of Hutto - Water Notes
Updated March 2019

- Water systems shall be constructed in accordance with City of Hutto Engineering Manual, standard specifications and standard details.
- Fire hydrants on mains under construction shall be securely wrapped with a poly wrap bag and taped into place. The poly wrap shall be removed when the mains are accepted and brought into service. All fire lines shall be ductile iron.
- All water service, wastewater service, and vent locations shall be appropriately marked as follows:
A. Water Service "W" on top of curb
B. Valve "V" on top of curb or valve sign as instructed by City Engineer
- Tools for marking curbs shall be provided by the Contractor. Other appropriate means of marking service and vent locations shall be provided in areas without curbs. Such means of marking shall be specified by the engineer and approved by the City of Hutto.
- Thrust blocking and restraints shall be in accordance with City of Hutto standard specifications.
- Hydrostatic pressure and leakage tests shall be performed on all pressure pipelines carrying water.
- All newly installed pipes and related products must conform to American National Standards Institute must be certified by an organization accredited by ANSI.
- Pipe material for water mains shall be PVC (AWWA C900/C905, MIN. DR 14), or Ductile Iron (AWWA C151, MIN. CLASS 350). Water services (2" OR SMALLER) shall be polyethylene tubing (BLACK, 200 PSI, DR 9).
- All ductile iron pipe (D.I.P) shall be wrapped with eight (8) MIL, black virgin polyethylene wrap as specified in ANSI/AWWA C105/A21.5.
- All D.I.P. shall be lined with virgin polyethylene conforming to ASTM D-1248; 40 MIL thickness (nominal), 35 MILS (minimum). Liner to be Polybond or equal. At any point where D.I.P. cannot be wrapped in polyethylene, coat the exterior with Polybond or approved equal.
- All PVC pipe (all types and SDR/DR wall thickness to be used) shall have rubber gasket equipped bell and spigot joints conforming to ASTM D-3212. The gasket material shall conform to ASTM F-477. Solvent welded joints will not be approved for this project.
- All potable waterlines and sanitary sewer facilities must be installed so as to provide a minimum of nine feet of clearance in any direction between them. Where the nine foot separation distance cannot be achieved, follow these special procedures.
A. If a collection system pipe parallels a public water supply pipe the following requirements apply:
I. A collection system pipe must be constructed of cast iron, ductile iron, or PVC meeting ASTM specifications with at least 150 pounds per square inch (PSI) pressure rating for both the pipe and joints.

Page 1 of 3

- Vertical separation must be at least two feet between the outside diameters of the pipes.
- Horizontal separation must be at least four feet between outside diameters of the pipes.
- Collection system pipe must be below water supply pipe.
- If a collection system pipe crosses a public water supply pipe, the following requirements apply:
I. If a collection system is constructed of cast iron, ductile iron, or PVC with a minimum pressure rating of 150 PSI, the following requirements apply:
a. A minimum distance of six (6) inches between outside diameters of the pipes.
b. A collection system pipe must be below a public water supply pipe.
c. Collection system pipe joints must be located as far as possible from an intersection with a public water supply line.
II. If a collection system crosses over a public water supply pipe, each portion of a collection system pipe within nine feet of a public water supply pipe must be constructed of cast iron, ductile iron, or PVC pipe with a pressure rating of at least 150 PSI using appropriate adapters.

- The Contractor must obtain a temporary water meter from the City of Hutto Utility Billing Department for all water used during construction.
- Contractor to schedule water valve closure through City of Hutto: Department of Public Works - Utility Division with advance notice of 7 days. Contractor to contact public works at phone # 512-759-4016 and notify construction inspector. Water valve closure will only be scheduled for Tuesday through Thursday. Contractor to notify all businesses and residents affected by valve closures. Closures must be coordinated to minimize effects on existing customers with considerations given to businesses that require water to maintain operations.
- Line flushing or any activity using a large quantity of water must be scheduled with the City of Hutto. Contractor will be responsible for tracking the amount of water used during flushing and be required to reimburse the city for water use, if not already metered.
- The Contractor, at his expense, shall perform sterilization of all potable water lines and shall provide all equipment necessary (including test gages), supplies (including concentrated chlorine disinfection material) and necessary labor required for the sterilization procedure. The sterilization procedure shall be monitored by the Engineer and a City of Hutto Construction Inspector. Water samples will be collected to verify each treated line has attained an initial chlorine concentration of 50 ppm.
- An independent qualified lab, at the Contractor's expense, shall perform quality testing for all wastewater pipe installed and pressure hydrostatic testing of all water lines constructed. The contractor shall provide all equipment (including pumps and gages), supplies, and labor necessary to perform the tests. A City of Hutto Construction Inspector must be present for all testing.

Page 2 of 3

- The Contractor shall provide the engineer and the city not less than 24 hours notice prior to performing sterilization, quality testing, or pressure testing.
- The Contractor shall not open or close any valves unless authorized by the City of Hutto.
- All valve boxes and covers shall be cast iron per City of Hutto standard details.
- All manholes shall be concrete with cast iron ring and cover. All manholes located outside of pavement shall have bolted and gasketed covers. Concrete manholes to be coated per standard detail and construction specifications. Tapping of fiberglass manholes shall not be permitted.
- All fire lines shall be ductile iron pipe (AWWA C-100, Class 200).
- All fire hydrants shall be silver in color including bonnet and installed per City of Hutto Standard detail.
- All water piping and fittings shall be virgin stock.
- All mechanical restraints shall be installed per manufacturer's specifications.
- Along State Highways, water lines are required on both sides of the roadway. New water lines crossing existing streets shall be placed by boring. A steel casing shall be required under major and minor collector roadways, arterial roadways and State Highway. Open cut excavation will not be allowed to cross existing streets, unless approved by the City Engineer.
- All new water pipes must have detectable tape per City of Hutto Standard Detail.
- All automatic flush valves must use a meter to measure water loss.
- Tracer wire will be tested and must work correctly before City acceptance of infrastructure. Tracer wire must be encased in pipe.
- All reduced size taps shall be made using an epoxy coated fabricated steel tapping sleeve with stainless steel bolts, or a stainless steel full circle tapping sleeve with ductile iron flange.

Page 3 of 3

CobbFendley
TBPE NO. F-274 / TBPLS NO. 10046701
505 EAST HUNTLAND DRIVE, SUITE 100
AUSTIN, TEXAS 78752
512.834.9788 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

GENERAL NOTES

FM 3349 HUTTO 16" WL RELOCATION
TAYLOR, TEXAS

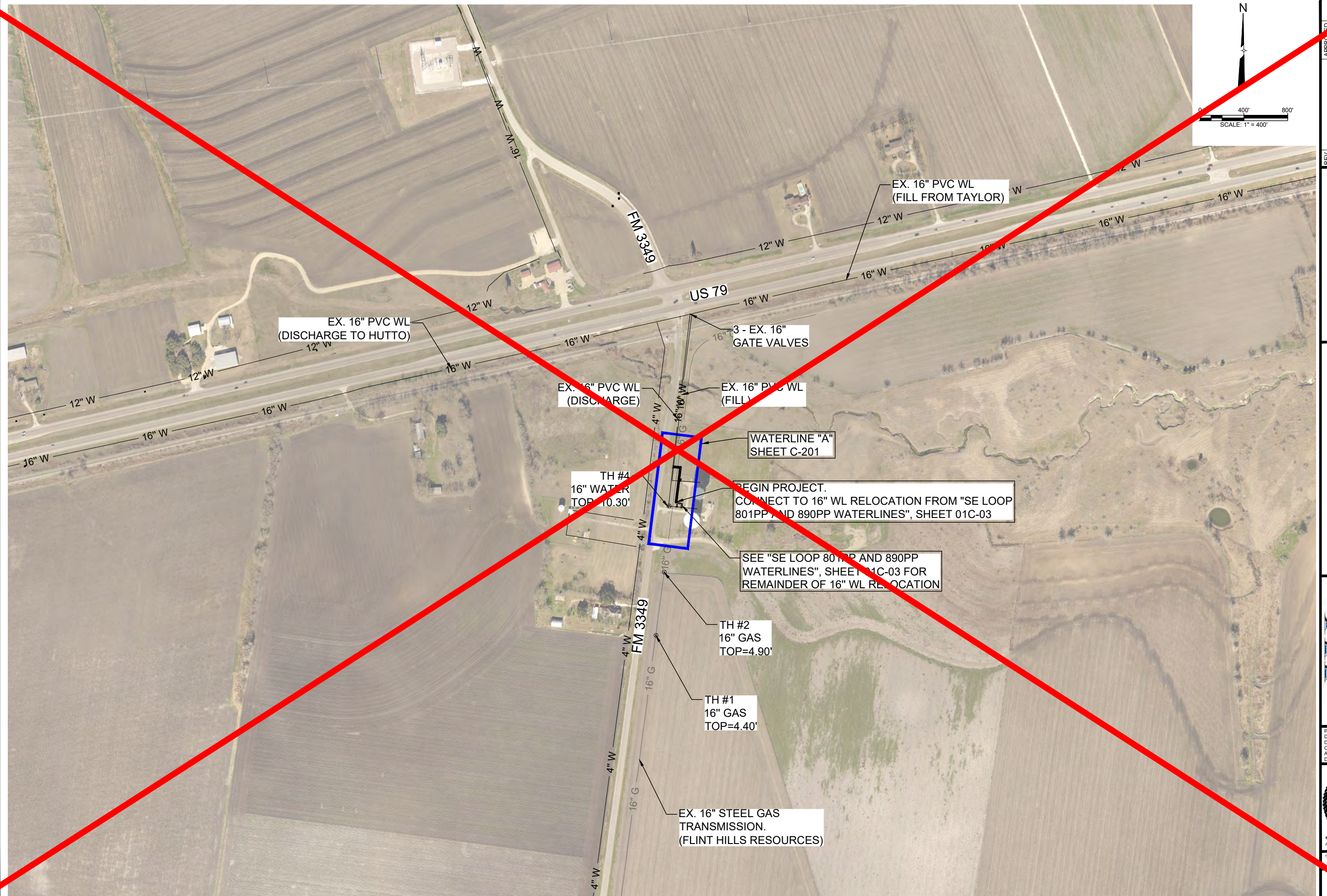


PROJ. NO. 1903-099-07
DESIGN: R. NEWTON
DRAWN: R. NEWTON
CHECK: L. PRINCE
APPR: K. VAN HOOSIER
DATE: 7/19/2022



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C-002
2 of 9

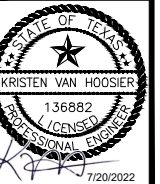
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KEYMAP

FM 3349 HUTTO 16" WL RELOCATION
TAYLOR, TEXAS



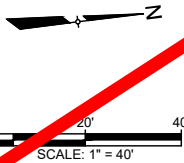
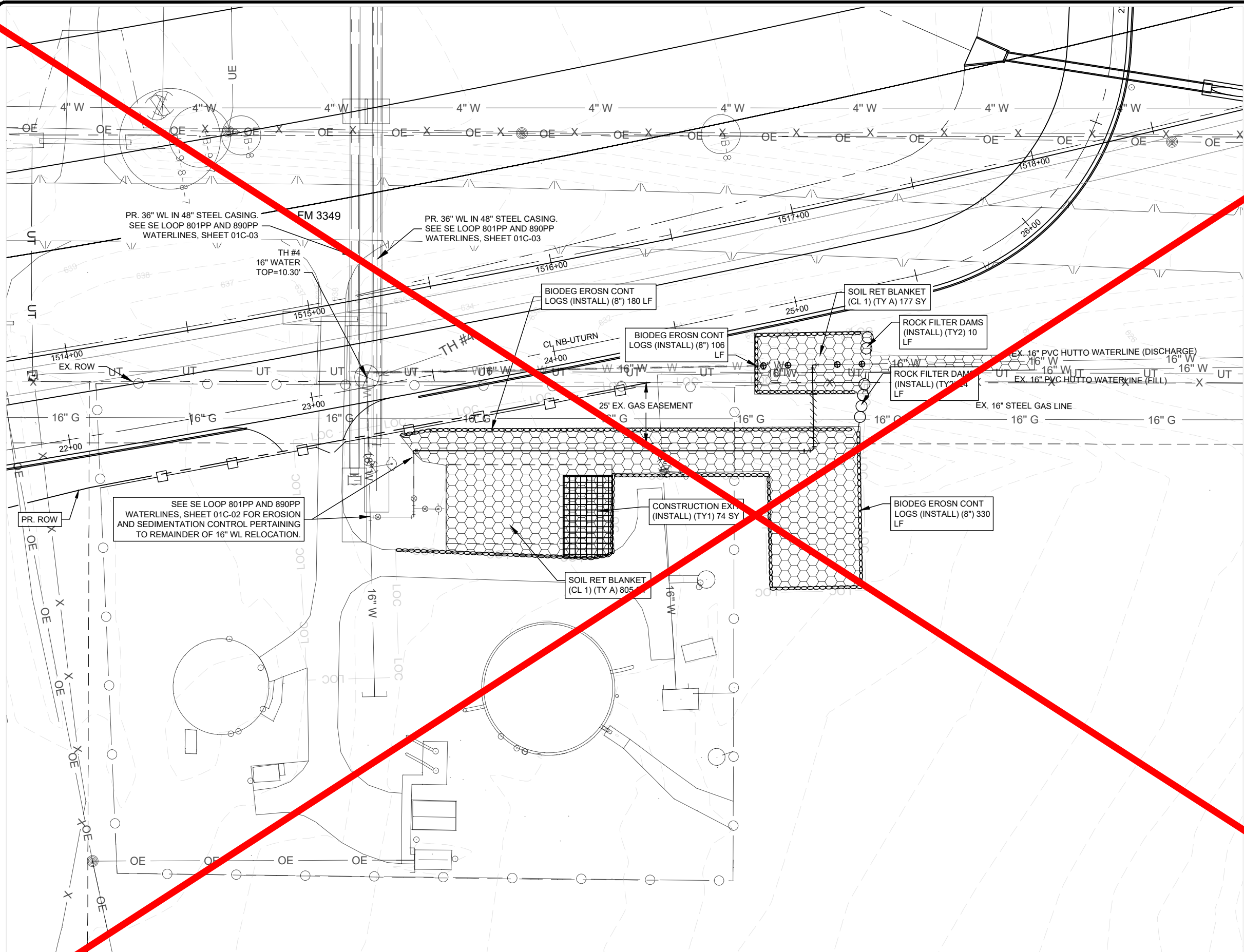
PROJ. NO.	1903-099-07
DESIGN:	R.NEWTON
DRAWN:	R.NEWTON
CHECK:	L.PRINCE
APPR:	K.VAN HOOSIER
DATE:	7/19/2022



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SHEET
C-100
3 of 9

D:\Info: g:\CFA\2014\0308801_williamson_county_2013_road_bond\MUN\40_fm3349_hutto\DESIGN\C-101-E&S.dwg -- Tab: WL "A" -- Plotted: 7/19/2022 4:42 PM By: KRISTEN VAN HOOSIER



LEGEND

- EX. RIGHT-OF-WAY
- PR. RIGHT-OF-WAY
- 16" W --- EX. 16" WATER
- PR. WATER
- 16" G --- EX. GAS LINE
- UT --- EX. U.G. TELECOM
- O --- EX. CHAIN LINK FENCE
- X --- EX. WIRE FENCE
- □ --- FUTR. CHAIN LINK FENCE
- ⊗ --- PR. WATER VALVE
- ○ --- BIODEG EROSN CONT LOGS
- ○ --- ROCK FILTER DAMS
- □ --- SOIL RET BLANKET

NOTE: TEMPORARY AND PERMANENT DRIVEWAY, PAVEMENT, AND GRAVEL REPAIRS TO BE SUBSIDIARY TO COST OF WATERLINE INSTALLATION AND RESTRAINT.

GENERAL NOTES:

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN 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 ANY AND 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.
- EXISTING 16" WATER MAINS ARE TO BE PROTECTED AND REMAIN IN SERVICE UNTIL THE NEW 16" MAIN IS CONSTRUCTED, TESTED, APPROVED AND THE NEW MAIN IS PLACED IN SERVICE.
- EXISTING WATER MAINS THAT ARE TO BE ABANDONED IN PLACE AND ARE UNDER THE PROPOSED ROADWAY ARE TO BE CUT, CAPPED, AND FILLED WITH FLOWABLE FILL. SUBSIDIARY TO COST OF PIPE, NO SEPARATE PAY. EXISTING WATER LINES THAT ARE TO BE ABANDONED IN PLACE AND ARE NOT UNDER THE PROPOSED ROADWAY WILL BE CAPPED.
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- EXISTING FENCE AND GATE IN THE PATH OF THE PROPOSED WATERLINE SHALL BE REMOVED AND REPLACED TO EQUAL OR BETTER CONDITION. SUBSIDIARY TO THE COST OF PIPE, NO SEPARATE PAY ITEM.
- DRIVEWAYS DAMAGED DURING WATER LINE INSTALLATION SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION. SUBSIDIARY TO THE COST OF PIPE, NO SEPARATE PAY ITEM.
- DO NOT EXCEED 80% OF MANUFACTURE'S MAXIMUM PIPE JOINT DEFLECTION. ALL BELOW GRADE 4" DIA. PIPE AND LARGER SHALL BE DUCTILE IRON PIPE, 250 PSI PRESSURE CLASS (MIN), SHALL HAVE RESTRAINED JOINTS, AND 3 FT COVER (MIN).
- CONTRACTOR SHALL MAINTAIN ACCESS TO PUMPING STATION AND IT'S EQUIPMENT THROUGHOUT THE ENTIRETY OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SITE SECURITY AT ALL TIMES, VIA PERMANENT OR TEMPORARY FENCING, DURING THE ENTIRETY OF CONSTRUCTION ACTIVITIES, PER DEPARTMENT OF HOMELAND SECURITY REQUIREMENTS.
- THE CONTRACTOR SHALL NOT OPEN/CLOSE ANY VALVES UNLESS AUTHORIZED BY A CITY OPERATOR. ADDITIONALLY, CONTRACTOR SHALL COORDINATE WITH THE CITY OPERATOR TO ISOLATE DISTRIBUTION SYSTEM FROM CONSTRUCTION ACTIVITIES DURING OFF-PEAK AND DISINFECTION.
- CONTRACTOR SHALL COORDINATE WITH CITY FOR ANY DOWNTIME REQUIRED TO TIE IN PROPOSED WATERLINE INTO EXISTING SYSTEM. DOWNTIME SHOULD BE NO GREATER THAN 8 HOURS AND SHOULD BE COORDINATED WITH CITY UTILITY SUPERINTENDENT 512-759-4020.
- CONTRACTOR SHALL PROVIDE TEMPORARY BLOW-OFFS FOR SANITIZING AND TESTING PROPOSED WATERLINE BEFORE BEING PUT INTO OPERATION.

EXISTING
GRADE
FLOW LINE
OF PIPE

PROFILE SCALE
1"=40' HORIZ.
1"=4' VERT.



EROSION AND SEDIMENTATION
CONTROL PLAN
FM 3349 HUTTO 16" WL RELOCATION
TAYLOR, TEXAS

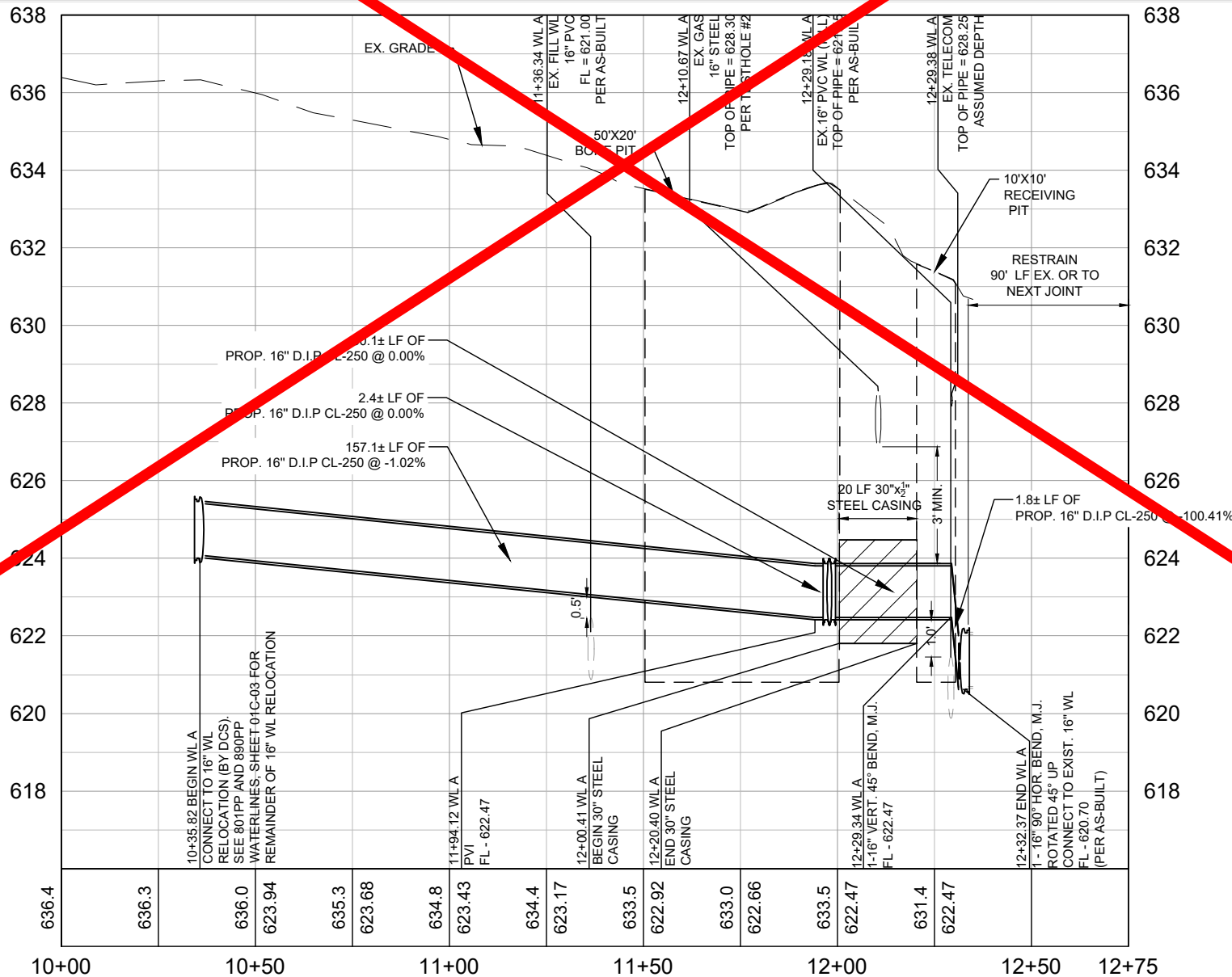
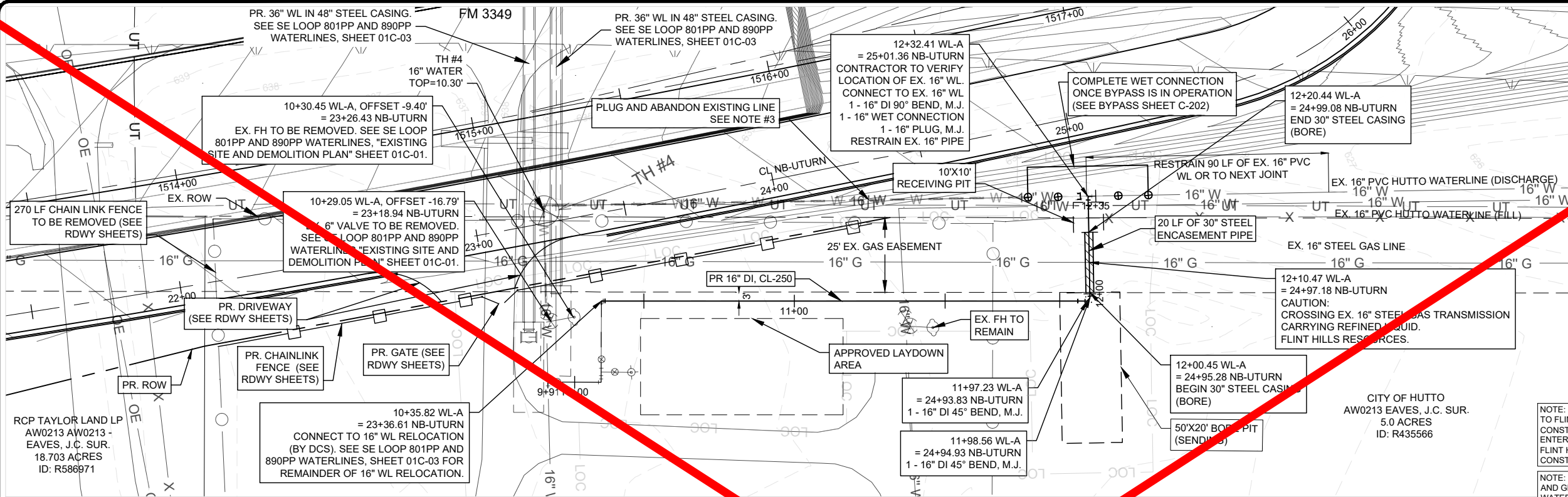


PROJ. NO. 1903-099-07
DESIGN: R. NEWTON
DRAWN: R. NEWTON
CHECK: L. PRINCE
APPR: K. VAN HOOSIER
DATE: 7/19/2022



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SHEET
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4 of 9

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NOTE: CONTRACTOR TO PROVIDE A 48-HOUR MINIMUM NOTICE TO FLINT HILLS RESOURCES REPRESENTATIVE PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE WITHIN 15' OF THE ENTERPRISE GAS LINES. CONTRACTOR TO COORDINATE WITH FLINT HILLS RESOURCES FIELD REPRESENTATIVE DURING CONSTRUCTION OF WATERLINE.

NOTE: TEMPORARY AND PERMANENT DRIVEWAY, PAVEMENT, AND GRAVEL REPAIRS TO BE SUBSIDIARY TO COST OF WATERLINE INSTALLATION AND RESTRAINT.

NOTE: ALL STEEL AND IRON MATERIALS MUST COMPLY WITH 23 CFR 635.410 PROVISIONS OF BUY AMERICA, FORM 1818 (MATERIAL STATEMENT), ALONG WITH ALL REQUIRED ATTACHMENTS MUST BE SUBMITTED AND APPROVED PRIOR TO THE COMMENCEMENT OF ANY INSTALLATION, AS EVIDENCE OF COMPLIANCE WITH AFOREMENTIONED PROVISIONS

GENERAL NOTES:

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN 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 ANY AND 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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- CONTRACTOR SHALL PROVIDE TEMPORARY BLOW-OFFS FOR SANITIZING AND TESTING PROPOSED WATERLINE BEFORE BEING PUT INTO OPERATION.

APPROVE BY: _____

REVISION DESCRIPTION

REV NO.

CobbFendley

TPBE NO. F-274 / TPLPS NO. 10046701
505 EAST HUNTLAND DRIVE, SUITE 100
AUSTIN, TEXAS 78752
512.834.9798 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

**WATERLINE "A" - STA. 9+75
TO 12+50 PLAN & PROFILE**

FM 3349 HUTTO 16" WL RELOCATION
TAYLOR, TEXAS

**WILLIAMSON
COUNTY**
1848

PROJ. NO. 1903-099-07
DESIGN: R. NEWTON
DRAWN: R. NEWTON
CHECK: L. PRINCE
APPR: K. VAN HOOSIER
DATE: 7/19/2022

KRISTEN VAN HOOSIER
136882
LICENSED PROFESSIONAL ENGINEER
7/20/2022

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SHEET
C-201
5 of 9



- | | |
|---|------------------------|
|  | EX. RIGHT-OF-WAY |
|  | PR. RIGHT-OF-WAY |
|  | EX. 16" WATER |
|  | PR. WATER |
|  | ABANDONED WATER |
|  | EX. GAS LINE |
|  | EX. U.G. TELECOM |
|  | EX. CHAIN LINK FENCE |
|  | EX. WIRE FENCE |
|  | FUTR. CHAIN LINK FENCE |
|  | PR. WATER VALVE |

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12. CONTRACTOR SHALL PLACE TEMPORARY BLOW-OFFS FOR SANITIZING AND TESTING PIPE BEFORE WATERLINE BEFORE BEING PUT INTO OPERATION.

EXISTING
GRADE
FLOW LINE
OF PIPE

PROFILE SCALE
1"=40' HORIZ.
1"=4' VERT.