

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 2

1. CONTRACTOR: Austin Underground, Inc.
2. Change Order Work Limits: Sta. 139+10.75 to Sta. 205+27.24
3. Type of Change(on federal-aid non-exempt projects): Minor (Major/Minor)
4. Reasons: 3F (3 Max. - In order of importance - Primary first)

Project: T5045

Roadway: CR 404

CSJ Number: _____

5. Describe the work being revised:

3F. County Convenience. Additional work desired by the County. This Change Order adds the relocation of the Jonah Water line along CR 401 that is currently in conflict with the CR 401 Reconstruction project. It is necessary to add this scope to this Contract, in order to meet Samsung's deadline of 7/31/2023.

6. Work to be performed in accordance with Items: See attached.
7. New or revised plan sheet(s) are attached and numbered: Jonah CR 401: Title, 01-02, K1, 1-8
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. #: N/A Days added on this CO: 0

Amount added by this change order: \$625,239.52

THE CONTRACTOR

Date 7-5-22

By

Typed/Printed Name

Typed/Printed Title

Valentin Gomez, Jr
Sr PM

RECOMMENDED FOR EXECUTION:

[Signature]
Project Manager Date 7/5/2022

N/A
Design Engineer Date

[Signature]
Program Manager Date 7/5/2022

Design Engineer's Seal:

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

County Judge Date
☐ APPROVED

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 2

Project # T5045

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
J106-01	4" C-900 DR-18 PVC Pipe and Fittings, w/ Tracer Wire; Installed	LF	\$58.91	0.00	\$0.00	1,372.00	1,372.00	\$80,824.52	\$80,824.52
J106-02	4" C-900 DR-18 PVC Restrained Joint Pipe and Fittings, w/ Tracer Wire; Installed	LF	\$55.00	0.00	\$0.00	202.00	202.00	\$11,110.00	\$11,110.00
J106-03	2" HDPE SDR 9 and Fittings; w/ Tracer Wire; Installed	LF	\$180.00	0.00	\$0.00	7.00	7.00	\$1,260.00	\$1,260.00
J106-04	20" Steel Enc. Pipe, Bored; w/ 4" Restrained Joint C900 DR18 PVC Pipe; Installed	LF	\$800.00	0.00	\$0.00	295.00	295.00	\$236,000.00	\$236,000.00
J106-05	20" Steel Enc. Pipe, Open Cut; w/ 4" Restrained Joint C900 DR18 PVC Pipe; Installed	LF	\$280.00	0.00	\$0.00	265.00	265.00	\$74,200.00	\$74,200.00
J106-06	8" Steel Enc. Pipe, Open Cut; w/ 4" Restrained Joint C900 DR18 PVC Pipe; Installed	LF	\$150.00	0.00	\$0.00	208.00	208.00	\$31,200.00	\$31,200.00
J106-07	Concrete Encased; 8" Steel Enc. Pipe, Open Cut; 4" Restrained Joint C900 DR 18 PVC Pipe; Installed	LF	\$295.00	0.00	\$0.00	200.00	200.00	\$59,000.00	\$59,000.00
J106-08	4" Gate Valve, Box, and Marker; Installed	EA	\$2,100.00	0.00	\$0.00	9.00	9.00	\$18,900.00	\$18,900.00
J106-09	Air/Vacuum Relief Valve Assembly and Marker; Installed	EA	\$6,000.00	0.00	\$0.00	1.00	1.00	\$6,000.00	\$6,000.00
J106-10	Blow Off Valve Assembly And Marker; Installed	EA	\$2,300.00	0.00	\$0.00	2.00	2.00	\$4,600.00	\$4,600.00
J106-11	Connect New 4" to Existing 4"; Installed	EA	\$2,300.00	0.00	\$0.00	2.00	2.00	\$4,600.00	\$4,600.00
J106-12	Connect New 4" to Existing 2"; Installed	EA	\$2,400.00	0.00	\$0.00	3.00	3.00	\$7,200.00	\$7,200.00
J106-13	Connect New 2" To Existing 1.5"; Installed	EA	\$2,200.00	0.00	\$0.00	1.00	1.00	\$2,200.00	\$2,200.00
J106-14	Cap Existing 2" Line; Complete	EA	\$510.00	0.00	\$0.00	1.00	1.00	\$510.00	\$510.00
J106-15	Trench Safety System Design and Implementation	LF	\$2.50	0.00	\$0.00	2,254.00	2,254.00	\$5,635.00	\$5,635.00
J106-16	Traffic Control Plan Development And Implementation	LS	\$2,000.00	0.00	\$0.00	1.00	1.00	\$2,000.00	\$2,000.00
J106-17	SWPPP Design and Implementation	LS	\$18,000.00	0.00	\$0.00	1.00	1.00	\$18,000.00	\$18,000.00
J106-18	Mobilization (Not to Exceed 10% of Total Project Bid)	LS	\$62,000.00	0.00	\$0.00	1.00	1.00	\$62,000.00	\$62,000.00
TOTALS					\$0.00			\$625,239.52	\$625,239.52

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

CR 404 Hutto Water Line Williamson County Project No. T5045

Change Order No. 2 Reason for Change

This Change Order adds the relocation of the Jonah Water line along CR 401 that is currently in conflict with the CR 401 Reconstruction project. It is necessary to add this scope to this Contract in order to meet project's delivery deadline of 7/31/2023.

The following new items will be added by this Change Order.

ITEM	DESCRIPTION	QUANTITY	UNIT
J106-01	4" C-900 DR-18 PVC Pipe and Fittings, w/ Tracer Wire; Installed	1,372.00	LF
J106-02	4" C-900 DR-18 PVC Restrained Joint Pipe and Fittings, w/ Tracer Wire; Installed	202.00	LF
J106-03	2" HDPE SDR 9 and Fittings; w/ Tracer Wire; Installed	7.00	LF
J106-04	20" Steel Enc. Pipe, Bored; w/ 4" Restrained Joint C900 DR18 PVC Pipe; Installed	295.00	LF
J106-05	20" Steel Enc. Pipe, Open Cut; w/ 4" Restrained Joint C900 DR18 PVC Pipe; Installed	265.00	LF
J106-06	8" Steel Enc. Pipe, Open Cut; w/ 4" Restrained Joint C900 DR18 PVC Pipe; Installed	208.00	LF
J106-07	Concrete Encased; 8" Steel Enc. Pipe, Open Cut; 4" Restrained Joint C900 DR 18 PVC Pipe; Installed	200.00	LF
J106-08	4" Gate Valve, Box, and Marker; Installed	9.00	EA
J106-09	Air/Vacuum Relief Valve Assembly and Marker; Installed	1.00	EA
J106-10	Blow Off Valve Assembly And Marker; Installed	2.00	EA
J106-11	Connect New 4" to Existing 4"; Installed	2.00	EA
J106-12	Connect New 4" to Existing 2"; Installed	3.00	EA
J106-13	Connect New 2" To Existing 1.5"; Installed	1.00	EA
J106-14	Cap Existing 2" Line; Complete	1.00	EA
J106-15	Trench Safety System Design and Implementation	2,254.00	LF
J106-16	Traffic Control Plan Development And Implementation	1.00	LS
J106-17	SWPPP Design and Implementation	1.00	LS
J106-18	Mobilization (Not to Exceed 10% of Total Project Bid)	1.00	LS

This Change Order results in an increase of \$625,239.52 to the Contract amount, for an adjusted Contract total of \$3,290,328.25. The original Contract amount was \$2,897,639.00. As a result of this and all Change Orders to-date, \$392,689.25 has been added to the Contract, resulting in a 13.55% net increase to the overall Contract cost. Due to the current uncertainty in material lead times, time adjustments for this work will be deferred to a later time. Additional time will be determined once materials are on site and will only be granted after the completion of the original scope of work.

HNTB Corporation

Oscar Salazar-Bueno, P.E.

Austin Underground

P.O. Box 5650
Lago Vista, TX 78645

Phone: 512-535-3285

To:	Williamson County	Contact:	
Address:	901 South Austin Avenue	Phone:	
	Georgetown, TX 78626	Fax:	
Project Name:	Jonah SUD - CR 401 Utility Adjustments	Bid Number:	
Project Location:		Bid Date:	

Item Description	Estimated Quantity	Unit	Unit Price	Total Price
4" C-900 DR-18 PVC Pipe and Fittings, w/ Tracer Wire; Installed	1,372.00	LF	\$58.91 \$48.00	\$65,856.00 \$80,824.52
4" C-900 DR-18 PVC Restrained Joint Pipe and Fittings, w/ Tracer Wire; Installed	202.00	LF	\$55.00	\$11,110.00
2" HDPE SDR 9 and Fittings; w/ Tracer Wire; Installed	7.00	LF	\$180.00	\$1,260.00
20" Steel Enc. Pipe, Bored; w/ 4" Restrained Joint C900 DR18 PVC Pipe; Installed	295.00	LF	\$800.00	\$236,000.00
20" Steel Enc. Pipe, Open Cut; w/ 4" Restrained Joint C900 DR18 PVC Pipe; Installed	265.00	LF	\$280.00	\$74,200.00
8" Steel Enc. Pipe, Open Cut; w/ 4" Restrained Joint C900 DR18 PVC Pipe; Installed	208.00	LF	\$150.00	\$31,200.00
Concrete Encased; 8" Steel Enc. Pipe, Open Cut; 4" Restrained Joint C900 DR 18 PVC Pipe, Installed	200.00	LF	\$295.00	\$59,000.00
4" Gate Valve, Box, and Marker; Installed	9.00	EACH	\$2,100.00	\$18,900.00
Air/Vacuum Relief Valve Assembly and Marker; Installed	1.00	EACH	\$6,000.00	\$6,000.00
Blow Off Valve Assembly And Marker; Installed	2.00	EACH	\$2,300.00	\$4,600.00
Connect New 4" to Existing 4"; Installed	2.00	EACH	\$2,300.00	\$4,600.00
Connect New 4" to Existing 2"; Installed	3.00	EACH	\$2,400.00	\$7,200.00
Connect New 2" To Existing 1.5"; Installed	1.00	EACH	\$2,200.00	\$2,200.00
Cap Existing 2" Line; Complete	1.00	EACH	\$510.00	\$510.00
Trench Safety System Design and Implementation	2,254.00	LF	\$2.50	\$5,635.00
Traffic Control Plan Development And Implementation	1.00	LS	\$2,000.00	\$2,000.00
SWPPP Design and Implementation	1.00	LS	\$18,000.00	\$18,000.00
Mobilization (Not to Exceed 10% of Total Project Bid)	1.00	LS	\$62,000.00	\$62,000.00

Total Bid Price: \$625,239.52

Notes:

- The above prices include all cost for Performance and Payment Bonds.
- Permits Included ☐ is included, ☐ is not included.
- The Project includes ☐ Mobilizations, Additional Mob fee is ☐ \$2500 ☐ Per Each
- Survey ☐ is included, ☐ is not included
- Trench Safety ☐ is included, ☐ is not included
- Testing-Water ☐ is included, ☐ is not included
- Dewater ☐ is included, ☐ is not included
- Asphalt Repairs ☐ is included, ☐ is not included
- Traffic Control ☐ is included, ☐ is not included
- Offsite Disposal ☐ is included, ☐ is not included
- Gradation, Proctors & Density Testing ☐ is included, ☐ is not included
- Plan Sheets ☐ 1 ☐ to ☐ 6 ☐ were used for work included. Plans dated 6-28-22
- CAD files and or GPS Coordinates of Asbuilts are NOT Included
- This proposal includes only the scope of work specifically listed within our schedule of values.
- This proposal may be withdrawn or modified without further notice if not accepted in writing within 30 days of transmittal.
- This proposal must be accepted in its entirety or the remaining scope and pricing is subject to change
- Testing lab, inspection fees and their related fees by others.
- Austin Underground is not responsible for existing utility conflicts not shown on plans.
- Taxes ☐ are included, ☐ are NOT included.
- Lead times as follows: Fittings/valves/casing - 1 week; Brass fittings - 4-6 weeks; Air release valve - 6-8 weeks; Integral restrained pipe/bell restraints: 6-8 weeks (1 week for Certalok with couplings); 6" C-900 proposed for valve risers due to 6" ductile iron shortages.

Bid Schedule;
2021 - CR 401, Utility Adjustments

Construction Related Items; Base Bid					
Item No.	Description of Item	Unit	Approx. Quantity	Unity Amount	Total Price
1	4" C-900, DR-18 PVC Pipe and Fittings; w/ Tracer Wire; Installed	L.F.	1,372	\$	\$
2	4" C-900, DR-18 PVC Restrained Joint Pipe and Fittings; w/ Tracer Wire; Installed	L.F.	202	\$	\$
3	2" HDPE SDR 9 and Fittings; w/ Tracer Wire; Installed	L.F.	7	\$	\$
4	20" Steel Enc. Pipe, Bored; w/ 4" Restrained Joint C900 DR18 PVC Pipe: Installed	L.F.	295	\$	\$
5	20" Steel Enc. Pipe, Open Cut; w/ 4" Restrained Joint C900 DR18 PVC Pipe: Installed	L.F.	265	\$	\$
6	8" Steel Enc. Pipe, Open Cut; w/ 4" Restrained Joint C900 DR 18 PVC Pipe; Installed	L.F.	208	\$	\$
7	Concrete Encased; 8" Steel Enc. Pipe, Open Cut; w/ 4" Restrained Joint C900 DR 18 PVC Pipe; Installed	L.F.	200	\$	\$
8	4" Gate Valve, Box, and Marker; Installed	Ea.	9	\$	\$
9	Air/Vacuum Relief Valve Assembly and Marker; Installed	Ea.	1	\$	\$
10	Blow Off Valve Assembly and Marker; Installed	Ea.	2	\$	\$
11	Connect New 4" to Existing 4"; Installed	Ea.	2	\$	\$
12	Connect New 4" to Existing 2"; Installed	Ea.	3	\$	\$
13	Connect New 2" to Existing 1.5"; Installed	Ea.	1	\$	\$

**Bid Schedule;
2021 - CR 401, Utility Adjustments**

14	Cap Existing 2" Line; Complete	Ea.	1	\$	\$
15	Trench Safety System Design and Implementation	L.F.	2,254	\$	\$
Construction Related Base Bid ItemsTotal				=	\$

<u>Other Project Related Items; Base Bid</u>					
Item No.	Description of Item	Unit	Approx. Quantity	Unity Amount	Total Price
16	Traffic Control Plan Development and Implementation	L.S.	1		
17	SWPPP Design and Implementation	L.S.	1		
18	Mobilization (Not to Exceed 10% of Total Project Bid)	L.S.	1		
Other Project Related Items; Base Bid Items Total				=	

Base Bid Project Totals

Construction Related Base Bid ItemsTotal = \$ _____

Other Project Related Base Bid Items Total = \$ _____ -

Amount of Total Base Bid = _____

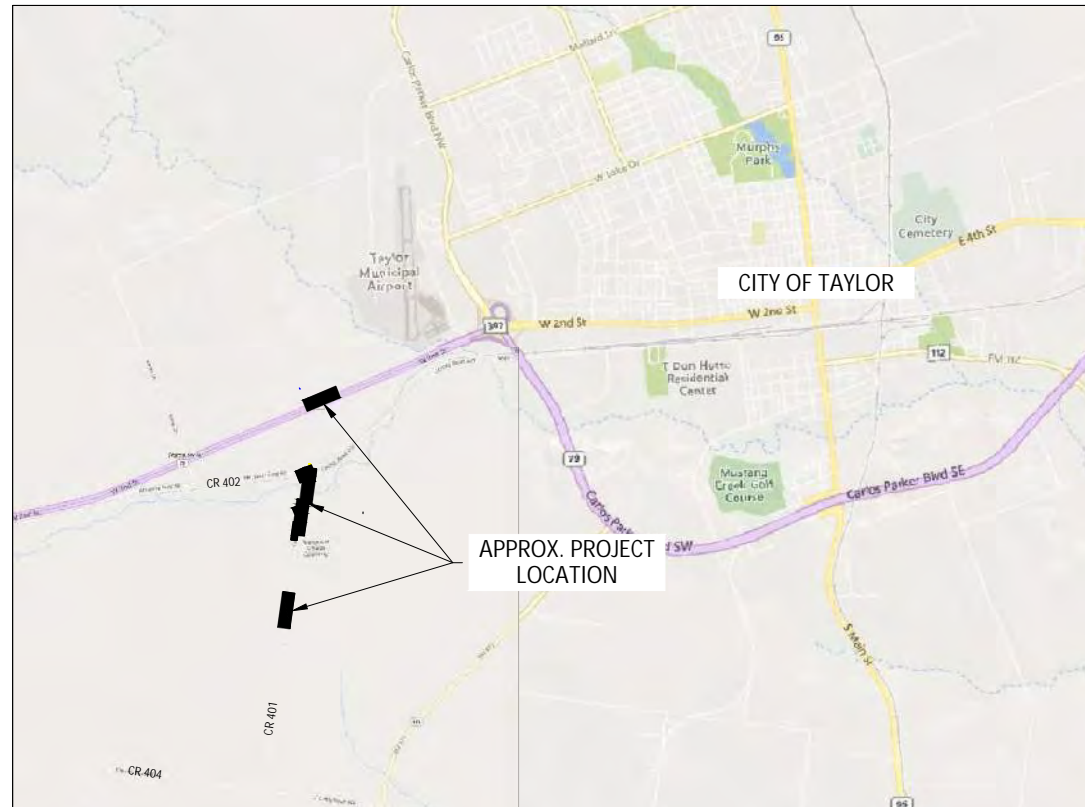


4050 FM 1660
HUTTO, TEXAS 78634
1-512-759-1286
PWS ID 246002
CCN ID 10970

2021 - CR 401, Utility Adjustments

GENERAL CONSTRUCTION NOTES

1. THESE PLANS DO NOT INDICATE DETAILED TOPOGRAPHY, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE PROJECT BEFORE SUBMITTING BIDS TO DETERMINE LOCATIONS OF VARIOUS TOPOGRAPHIC FEATURES THAT COULD EFFECT CONSTRUCTION METHODS
2. THE CONTRACTOR SHALL NOTIFY
 1. THE TxDOT HIGHWAY MAINTENANCE FOREMAN
 2. RAILWAY SUPERINTENDENT
 3. COUNTY COMMISSIONER
 4. APPLICABLE CITY
 5. APPLICABLE UTILITY COMPANIES48 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY HIGHWAY OR RAILROAD AND IN THE VICINITY OF ANY EXISTING UTILITIES, AND SHALL BE SUBJECT TO INSPECTION AND COMPLIANCE WITH THE ABOVE AUTHORITIES.
3. THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D.
4. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.
5. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF POTABLE WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY.
6. WATER TRANSMISSION AND DISTRIBUTION LINES MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION.
8. COORDINATE ANY PLANNED INTERRUPTIONS TO SERVICE WITH THE APPLICABLE UTILITY PURVEYOR A MINIMUM 48 HOURS IN ADVANCE
9. ANY AND ALL OBJECTS THAT BECOME DAMAGED AND/OR DESTROYED BY THE CONSTRUCTION PROCESS SHALL BE REPLACED OR RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED JUST PRIOR TO THE INCIDENT OR INCIDENTS.
10. PROPERTY OWNERS SHALL HAVE ACCESS TO THEIR RESPECTED PROPERTY DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL NOTIFY THE APPLICABLE PROPERTY OWNER IF PROPERTY ACCESS IS TO BE DENIED FOR ANY PERIOD OF TIME. THE CONTRACTOR SHALL TAKE STEPS TO ASSURE THAT ACCESS IS ACHIEVED IN THE PERIODS OF THE CONTRACTOR'S ABSENCE.
11. TRAFFIC CONTROL PLANS SHALL BE IN ACCORDANCE WITH TCP(1-1)-12 THROUGH TCP(1-6)-12; SEE <https://www.dot.state.tx.us/insdtdot/orgchart/cmd/cserve/standard/toc.htm> FOR SHEETS.



PROJECT SPECIFIC NOTES:

1. SCHEDULE ALL PLANNED INTERRUPTIONS TO WATER SERVICE WITH JONAH WATER S.U.D. AT LEAST 48 HOURS IN ADVANCE.
2. FIELD VERIFY DEPTH AND LOCATIONS OF ALL EXISTING APPLICABLE UTILITIES.
3. COORDINATE AND GIVE PROPER NOTICE TO OWNER OF POSSIBLE INTERRUPTIONS TO SERVICE.
4. ALL COMPONENTS OF THIS PROJECT SHALL BE INSTALLED PER THE MANUFACTURE'S RECOMMENDATIONS.
5. THE ROW LIMITS, UTILITY LOCATIONS, AND PROPOSED ROADWAY/DRAINAGE IMPROVEMENTS, ETC., WERE OBTAINED FROM WILLIAMSON COUNTY'S REPRESENTATIVES. JONAH WATER NOR ITS REPRESENTATIVES SHALL BE LIABLE FOR THE ACCURACY OF THIS INFORMATION PROVIDED TO THEM.
6. CONTRACTOR SHALL REFER TO THE ACTUAL EASEMENT DOCUMENTS FOR DESCRIPTIONS OF EASEMENTS REPRESENTED WITHIN THESE PLANS.

Sheet Index:

G1	GENERAL NOTES
G2	TAKE OFF
K1	KEY MAP
1	WATERLINE ALIGN. 'A'; STA. A-00+00 TO A-07+00
2	WATERLINE ALIGN. 'A'; STA. A-24+00 TO A-31+50
3	WATERLINE ALIGN. 'A'; STA. A-31+50 TO A-38+50
4	WATERLINE ALIGN. 'A'; STA. A-38+50 TO A-47+00
5	WATERLINE ALIGN. 'B'; STA. B-00+00 TO B-02+50
6	STANDARD DETAILS
7	STANDARD DETAILS
8	TCP / EROSION CONTROL DETAIL



CIVIL ENGINEER

APPROVED

6/28/22

DATE APPROVED



T.B.P.E. F-16387
P.O. Box 24189
Waco, TX 76702 Ph. 254-744-3439
MILES@CAYOTECON.COM

OWNER

DATE APPROVED

JONAH WATER S.U.D.
2021 - CR 401, Utility Adjustments

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
General notes:	1) The proposed roadway, drainage, existing utilities shown on these plans were received by Jonah Water S.U.D. from their representatives. It shall be the Contractor's responsibility to familiarize themselves with the County's project documents, so that any discrepancies can be avoided.					b) Curb & gutter: saw-cut neat line and dowel into existing curb & gutter at limits. Contractor to match flowlines. c) Driveway and sidewalks: saw-cut neat line and place expansion joint at limits.					5) Welds are not allowed to splice safety pipe runners; must be one continuous pipe.					
1	2) Various portions of the work shall be performed on private property as shown in the drawings. The owner has or is obtaining right of entry permission, permanent easement, or permanent right of way for all portions of private property requiring work (in addition to areas where there are pre-existing permanent easements), unless noted otherwise in project special provisions. The contractor shall not access or disturb private property without giving notice to each private property owner at least one week prior to construction activities on their property, including an estimated duration that their property will be affected. Every effort shall be made by the contractor to schedule work to minimize disruption to property owners. Upon completion of work (or phases of work), private properties shall be restored to existing or better conditions, than that of those that existed just prior to the beginning of construction. a) Refer to project Property Owner line list for tract information and easement statuses.					4) All existing fences are to remain unless otherwise noted on the drawings. Any damage to fences shall be repaired to equal or better conditions, than that of those that existed just prior to the beginning of construction, at no additional cost to the owner.					<u>Trench Safety Notes:</u> 1) In accordance with the laws of the state of Texas and the U.S. Occupational Safety and Health Administrations Regulations, all trenches over 5 feet in depth in either hard and stable or soft and unstable soil shall be sloped, shored, sheeted, braced or otherwise supported. Furthermore, all trenches less than 5 feet in depth shall also be effectively protected when hazardous ground movement may be expected. Trench safety systems to be utilized for this project shall be provided by the contractor. 2) In accordance with the U.S. Occupational Safety and Health Administration regulations, when employees are required to be in trenches 4 feet deep or more, adequate means of exit such as ladder or steps, must be provided and located so as to require no more than 25 feet of lateral travel.					
2	3) The locations of underground utilities as shown hereon are based on above ground structures, record drawings, or information from other entities provided to the engineer. Locations of underground utilities structures may vary from locations shown hereon. Additional buried utility structures may be encountered. Before excavations are begun, the following entities shall be contacted for verification of utility type and field locations. a. Gas, telephone, electric, fiber optic, oil: call Texas 811 at 800-344-8377 b. Water: call the Jonah Water and/or City of Taylor					<u>Tree Protection Requirements:</u> 1) Prior to construction, the contractor shall mark all trees that are to be protected (as indicated on plans or as directed by Owner) with clearly marked 4' tall orange barricade fence and signage to protect the area under the canopy drip line of any protected tree or group of protected trees. The drip line is the outer extent of any branching and/or leaves. At select trees, as shown on the plans or directed by the Owner, the tree protection limits may encroach within the dripline to accommodate construction. Do not exceed 24" ground penetration with support stakes at any location. 2) During construction, the contractor shall: a) Prohibit employees and equipment from accessing areas within tree protection limits. b) Prohibit cleaning of equipment or storage of materials and disposal of any waste material, including, but not limited to, paint, oil, solvents, asphalt, concrete, mortar, etc., within tree protection limits. c) Prohibit attachments or wires of any kind, other than those of a protective nature, to any protected tree. d) Prohibit the disturbance of existing ground grades within tree protection limits. 3) If roots are exposed when performing excavations near protected trees, roots shall be cut cleanly at 90-degree angles (no ripping, tearing, or pulling). 4) All trees to be removed shall be marked in the field and reviewed with the engineer and owner prior to removal. 5) Contractor may be financially responsible for trees damaged due to contractor's neglect. 6) When directed by owner, contractor shall trim trees. This work is subsidiary to the applicable items. Remove all limbs to a point 10 feet above natural ground (or 18' above pavement) utilizing the following steps: i) Cut 1/3 through bottom of limb 8" to 12" away from main stem or trunk ii) Remove limb 4" to 6" beyond the first cut iii) Remove stump with a smooth cut so that trace collar of the removed limb protrudes approximately 1/2" from main stem or trunk.					<u>Storm Water Pollution Prevention Plan (SWPPP)</u> 1) The Contractor shall submit a SWPPP for review. The Plans shall be based upon applicable City, State, and Federal requirements and established standards. 2) The Contractor is responsible to monitor the plan as the work progresses and submit modifications for review as needed. 3) The Contractor is responsible to ensure the Project's Engineer and Inspector has been provided a copy of the signed plans prior to beginning work. 4) The SWPPP Best Management Practices (BMPs) approved must be installed prior to and excavation activities.					
3	4) The Contractor shall pthohole the existing utilities lines ahead of the pipeline installation to verify adequate room is available for the trenching of the proposed lines. If the proposed trench for the water lines and the existing location of the utility lines are to become in conflict, the Contractor shall at his cost provide excavation and possible shoring up of the conflicting utilities, to allow for the trenching of the proposed water lines. The Contractor protect the existing utility lines at their expense and shall place the line back into its original alignment once the trench is being backfilled. It will be imperative that the contractor shall compact the trench so to not allow excessive settlement that could damage the exiting utility line. a) If shoring of lines is required, the Contractor shall notify the utility's owner of the process that is to take place at least 72 hours in advance to schedule inspections and assistance from the utility's owner. No separate payment, for the costs associated with this process, shall be made and shall be subsidiary to the other applicable costs.					<u>Irrigation Revegetation and Slope Stabilization Notes:</u> 1) Contractor shall locate, verify, and protect the working conditions of all existing irrigation systems, including meters, lines, and heads. Contractor shall employ a licensed irrigation installer or plumber to perform all reconstruction of irrigation systems and verify the system is operational. The contractor shall remove, adjust, and reinstall irrigation systems back to good condition; replace irrigation systems, if in direct conflict with proposed construction with the same or better-quality material and appurtenances. Damage to existing irrigation systems shall be restored to equal or better condition which it was found prior to construction. All work shall be subsidiary to other bid items. 2) Provide temporary vegetation and watering as part of contractor's stormwater pollution prevention plan implementation. 3) All disturbed areas shall be permanently revegetated unless the location is utilized as a cultivated field. Payment includes watering necessary to fully establish vegetation. Contractor shall check regularly to verify that coverage is properly established and maintained. 4) Contractor shall be responsible for mowing within project limits throughout construction, as directed by owner (subsidiary). 5) The following guidance shall be used for permanent vegetation and soil stabilization: a) At established lawns, place solid block sod matching existing grass type (Bermuda or St. Augustine). b) Between back of curb and edge of sidewalk, place solid block sod (Bermuda). c) Roadway side slopes (non-ditch areas): i) If steeper than 6: 1, place soil retention blanket (spray-on application allowed) and Bermuda seed. ii) If 6: 1 or flatter, place Bermuda seed. d) Ditch channel side slopes: i) Place Bermuda seed in all disturbed areas. ii) If shown on plans, place flexible channel liner. iii) For all other locations: (1) If steeper than 6: 1, place soil retention blanket (non-spray application) and Bermuda seed. (2) If 6: 1 or flatter, place Bermuda seed. e) All soil retention blanket shall be class 1 type a per TxDOT item 169. f) All flexible channel liner shall be class 2 type g per TxDOT item 169. 6) For broadcast seed rate, refer to specifications 7) Broadcast seed shall immediately be watered with a minimum of 5 gallons of water per square yard, then weekly at a minimum rate of 10 gallons per square yard. Until the grass is uniformly 1 inch in height. Sod shall immediately be watered with a minimum of 5 gallons of water per square yard, then weekly at a minimum rate of 6 gallons per square yard weekly until the grass is uniformly 2 inches in height. When allowed by engineer, watering may be postponed for one week when rainfall of 1 inch or greater occurs on the site. Do not cause damage by over watering. 8) Prior to placing block sod, contractor shall blade and rake smooth topsoil. Sod shall not be placed such that it impedes drainage runoff.										
4	5) When unlocated or incorrectly located underground piping, or a break located in the line, or other utilities and services are encountered during work operations, notify the applicable utility company immediately to obtain procedure directions. Cooperate with the applicable utility company in maintaining active services in operation. 6) Contractor shall take all due precautions to protect existing facilities and features from damage during construction, including all features on private property (trees, landscaping irrigation, fences, etc.) and franchise utilities. Any damage to existing features that are not called to be removed shall be repaired or restored to conditions equal to or greater than those just prior to the beginning of construction, by the Contractor, at no additional cost to the owner.					<u>Paving Construction Notes:</u> 1) Contractor shall protect all existing and/or proposed water, wastewater, and storm drain facilities throughout paving operations. Contractor shall replace any facilities damaged during paving operations at no additional cost to the Owner. All manholes and valves falling within pavement area shall be adjusted to finished grade and shall be subsidiary to other bid items. 2) Contractor shall match existing driveway/sidewalk with exposed aggregate finish, if applicable. 3) Contractor shall protect all adjoining pavement during construction. Damages shall be prepared at contractor's expense. 4) Asphalt pavement and/or concrete items shall be saw-cut where existing asphalt pavement or a concrete item is being partially removed. These cuts shall be vertical and made with a saw (1- 1/2" deep). 5) At a minimum, pavement repair shall consist of 2" of HMAAC and 12" of concrete subgrade if the existing pavement section is found to be thicker, the pavement the repair section shall be increased to match the existing section. 6) Unless noted otherwise, concrete for rip-rap, sidewalks and other miscellaneous site structures and/or site flatwork shall be normal weight and shall attain a minimum 28-day compressive strength of 3,000 psi. Use gray Portland cement conforming to ASTM c 150 Type 1. Minimum cement content shall be 4 sacks per cubic yard. Maximum water cement ratio shall be 0.50. Maximum slump shall be 5 inches. Maximum aggregate size shall be 1 1/2". Provide 4 to 6 percent air-entrainment, conforming to ASTM C260. Chemical admixtures shall conform to ASTM C494, type a, d, or e. If flyash is to be used in the concrete mix, it shall be included in the mix design submitted. The amount of fly ash used shall be no greater than 15 to 20 percent by weight of the specified cement. In no case shall the Portland cement content of the mix be less than 4 sacks per yard. Concrete shall not be placed prior to approval of the concrete mix design by the engineer. 7) Reinforcing steel shall be new domestic deformed billet steel, conforming to ASTM A615, grade 60. Welded wire fabric shall conform to ASTM A185, grade 60 and shall be supplied in flat sheets only, and only used if approved by the applicable governmental entity. 8) The paint for pavement markings shall meet the requirements of FED spec TT-P- 85. The paint may be used with or without reflective media. The painting shall be performed only when all the following conditions are satisfied: a) The existing surface is dry and clean b) When the atmospheric temperature is 40° F and rising c) When the weather is not excessively windy, dusty, or foggy 9) A minimum of 28-days shall elapse between the placement of the asphalt or concrete surface and the application of the pavement paint/markings. The paint shall not bleed excessively, curl or discolor when applied to asphalt surfaces.					<u>Special Notes:</u> 1) Owner shall be responsible for materials testing in accordance with applicable specifications. Contractor shall coordinate testing with owner and testing agency. Contractor shall bear the cost for re-tests due to failing tests. 2) Stockpile all topsoil removed from project separate from other cut/fill materials. Utilize stockpiled topsoil to finalize grades in disturbed areas. 3) Contractor shall keep drainage structures and ditches free from obstructions during times when weather conditions require its use to convey runoff. a) Contractor shall verify that temporary of final grading shall not adversely affect surrounding/adjoining properties. 4) Excavation in existing driveways shall be backfilled and repaired to existing condition. 5) Contractor shall shape embankment material to accommodate the belled joints of pipes to insure support throughout their lengths. Belled joints shall have a minimum of 2" of fill beneath them. 6) If excavated material is not acceptable to the engineer for backfill, the contractor shall provide select import material as required. All backfill material is subsidiary to the price of pipe in place. 7) Max joint deflection shall be half the manufacturer recommended maximum. 8) Contractor shall adjust, repair, or reconstruct residential services (not directly specifically called on the plans) as necessary. Payment shall be subsidiary to installation of pipeline & not an additional pay item.					
5	10) The Contractor shall not place any waste materials in the															

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NO. 628722

DATE 6/28/22

REVISION DESCRIPTION

UPDATED QUANTITIES

Jonah Water S.U.D.

Williamson County, Texas

2021 - CR 401, Utility Adjustments


TAKE OFF

DESIGN: MWW

DRAWN: MWW

CKD: MWW

SEAL:



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APPROVED:

DATE: 6/28/22

AYOTE CONSULTING, LLC

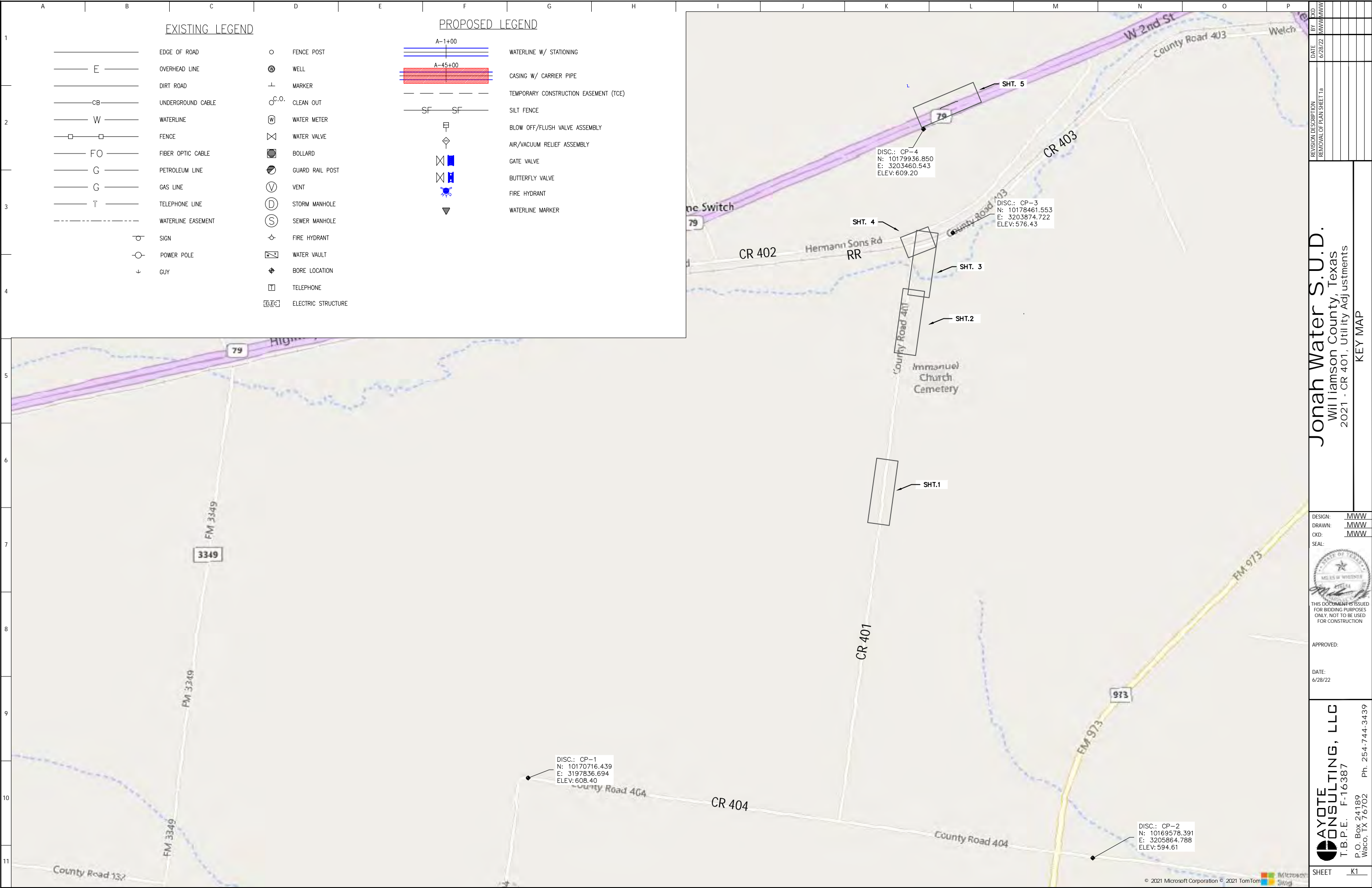
T.B.P.E. F-16387

P.O. Box 24189 Waco, TX 76702

Ph. 254-744-3439

SHEET

G2



Jonah Water S.U.D.
Williamson County, Texas
2021 - CR 401, Utility Adjustments

KEY MAP

DESIGN: MWW
DRAWN: MWW
CKD: MWW
SEAL:



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6/28/22

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P.O. Box 24189
Waco, TX 76702
Ph. 254-744-3439

SHEET K1



NO	BY	DATE	REVISION DESCRIPTION
1	MMW	6/12/22	UPDATED WILCO BASE FILE
2	MMW	6/28/22	REMOVAL OF TEMP. WATERLINE
3			
4			
5			
6			
7			
8			
9			
10			
11			

Jonah Water S.U.D.

Williamson County, Texas

2021 - CR 401, Utility Adjustments

WATERLINE ALIGN. "A"; STA. A-00+00 TO A-7+00

DESIGN: MMW

DRAWN: MMW

CKD: MMW

SEAL:

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APPROVED:

DATE: 6/28/22

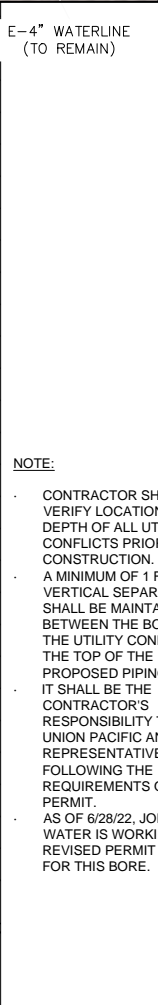
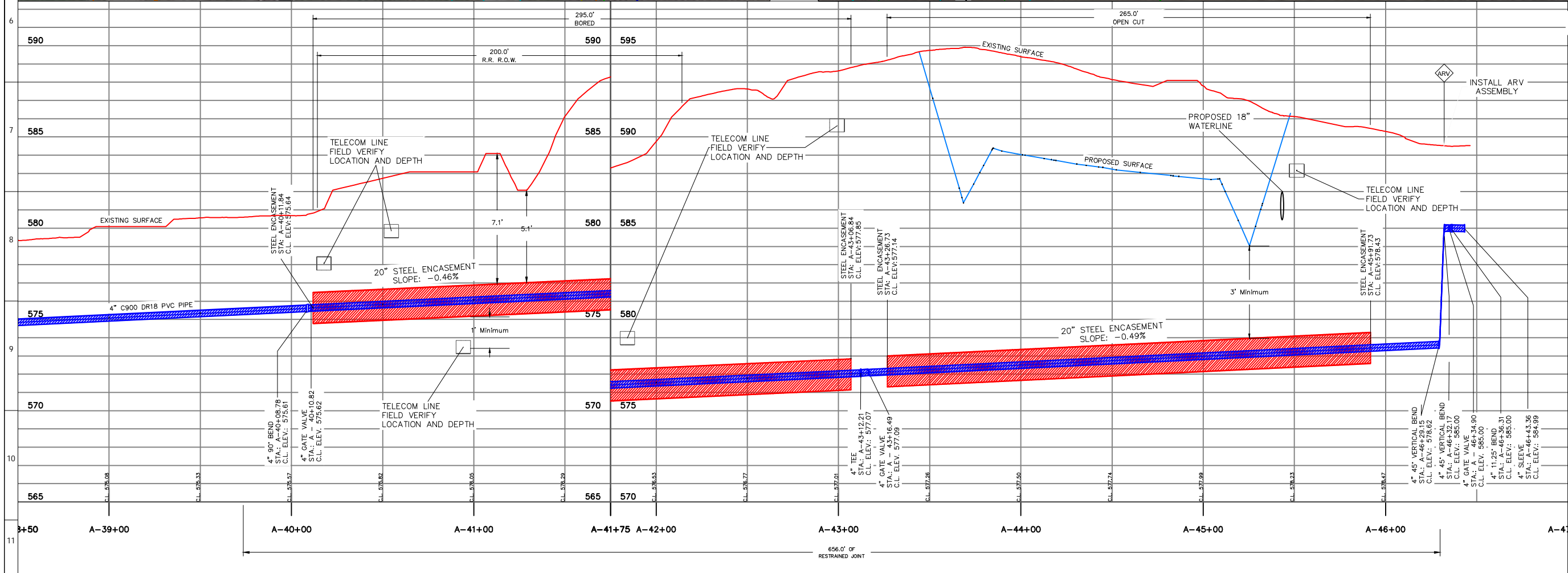
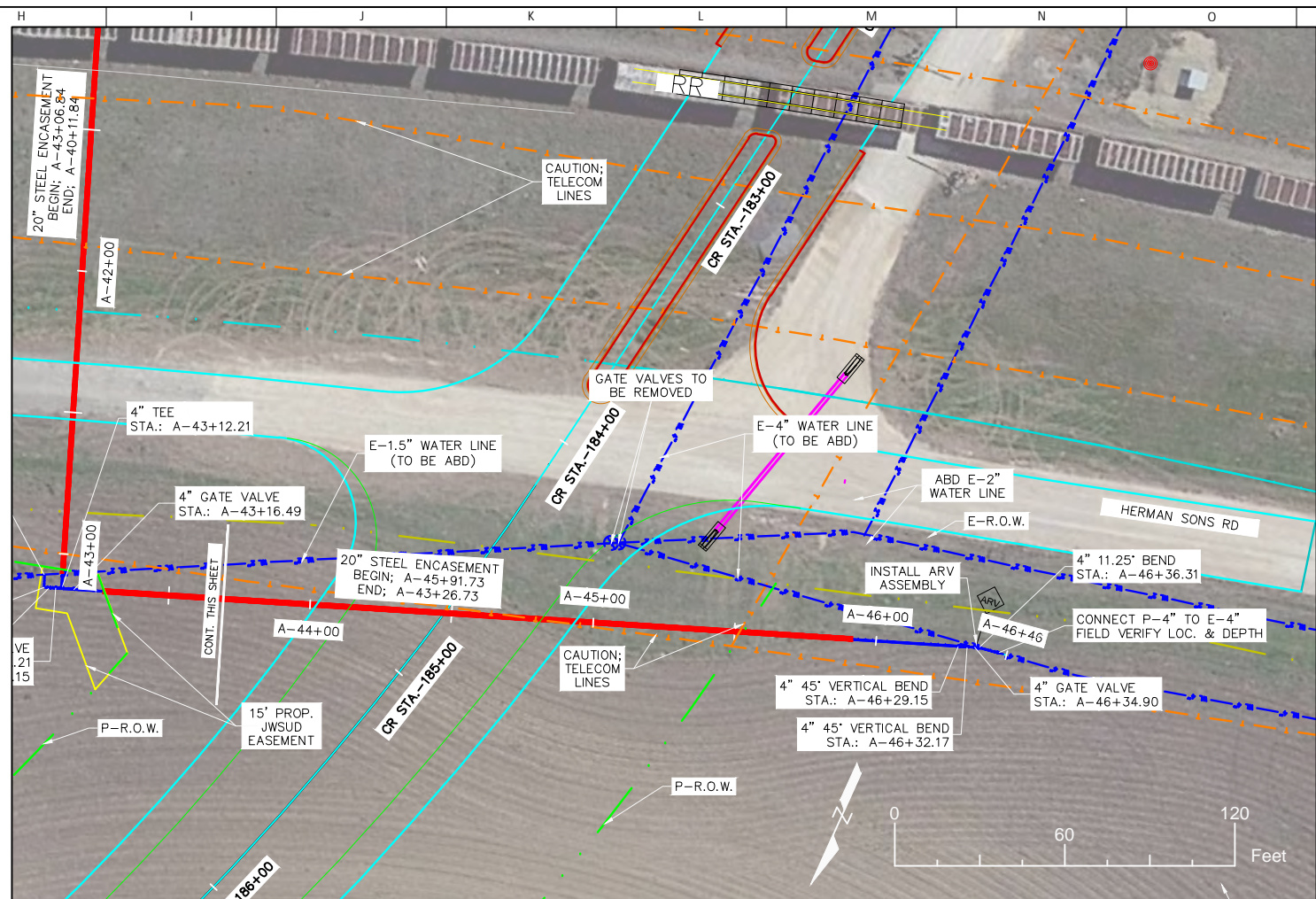
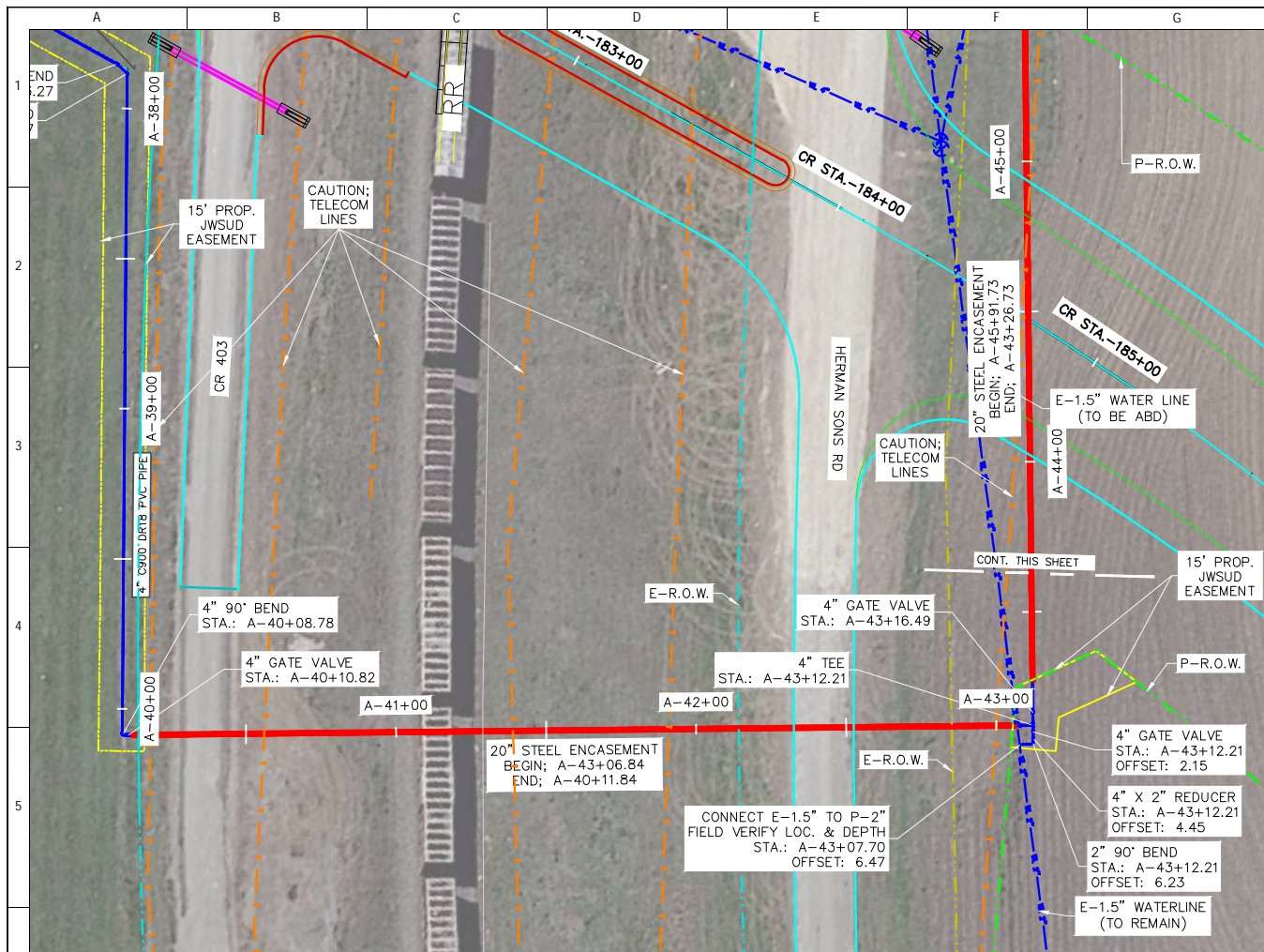
AYOTE CONSULTING, LLC

T.B.P.E. F-16387

P.O. Box 24189 Waco, TX 76702

Ph. 254-744-3439

SHEET 1



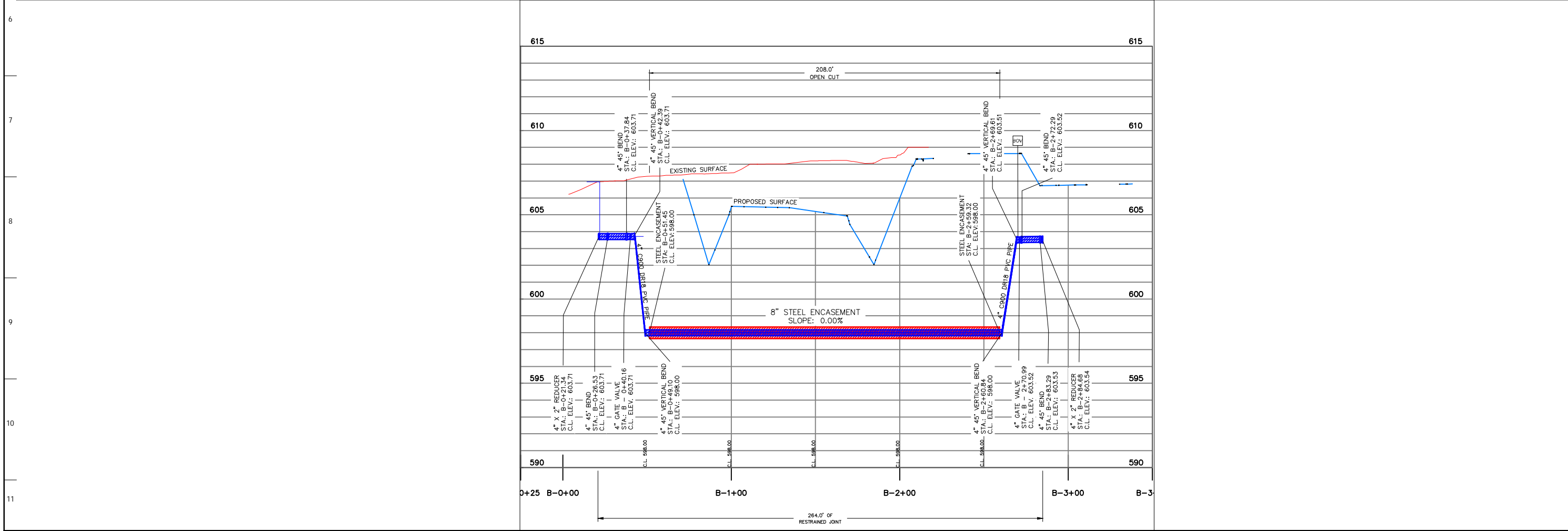
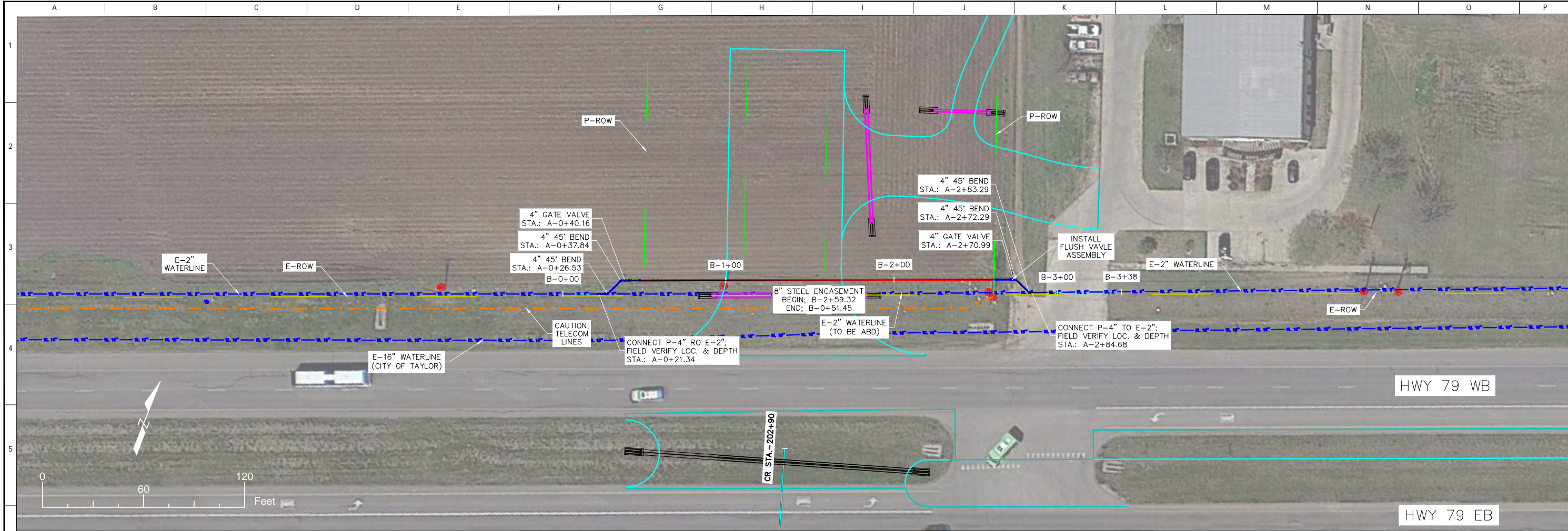
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CKD: MWW	
SEAL:	
APPROVED:	
DATE: 6/28/22	
SHEET 4	

Jonah Water S.U.D.
Williamson County, Texas
2021 - CR 401, Utility Adjustments
WATERLINE ALIGN. "A"; STA. A-38+50 TO A-47+00

AYOTE CONSULTING, LLC
T.B.P.E. F-16387
P.O. Box 24189
Waco, TX 76702
Ph. 254-744-3439

THIS DOCUMENT IS ISSUED FOR BIDDING PURPOSES ONLY, NOT TO BE USED FOR CONSTRUCTION

NOTE:
CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
A MINIMUM OF 1 FOOT VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE BOTTOM OF THE UTILITY CONFLICT AND THE TOP OF THE PROPOSED PIPING.
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UNION PACIFIC AND THEIR REPRESENTATIVES, FOLLOWING THE REQUIREMENTS OF THE PERMIT.
AS OF 6/28/22, JONAH WATER IS WORKING ON A REVISED PERMIT TO UPRR FOR THIS BORE.



REVISION	DESCRIPTION	DATE	BY	CHKD
1	UPDATED WILCO BASE FILE	6/12/22	MWW	MWW
2	UPDATED WATERLINE ALIGNMENTS	6/28/22	MWW	MWW
3				
4				
5				
6				
7				
8				
9				
10				
11				

Jonah Water S.U.D.
Williamson County, Texas
2021 - CR 401, Utility Adjustments
WATERLINE ALIGN. "B"; STA. B-0+00 TO B-2+25

DESIGN: MWW
DRAWN: MWW
CKD: MWW
SEAL:

APPROVED:

DATE: 6/28/22

AYOTE CONSULTING, LLC
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