

DATE:JULY 24, 2025

TO: Plan Holders Contractors FROM:
Jenna Richardson
918-596-9637
jennarichardson@cityoftulsa.org

EMAIL TRANSMITTAL

ADDENDUM NO. 3

PROJECT NO. TMUA-W 21-02 TO#12 BERRYHILL WATER LINE REPLACEMENT

Number of pages: 31

All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.

Thank you, Contract Administration



DATE: July 24, 2025

ADDENDUM NO. 3 TO PROJECT NO. TMUA-W 21-02 TO #12 BERRYHILL WATER LINE REPLACEMENT

This Addendum No. 3 consisting of three (3) items, submitted by Freese and Nichols and one (1) item, submitted by City of Tulsa, is hereby made a part of the Contract Documents to the same extent as though it were originally included therein and shall supersede anything contained in the Plans and Specifications with which it might conflict. All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.

This Addendum No. 3 consists of the following:

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- 1. The attached documents list the detailed items that have been modified in Addendum No. 1. These documents shall be inclusive and apply to this project.
- 2. Clarification: Contract is for <u>300 days</u>, Attached is an updated contract page (C-2) with correct number of days.

All other provisions of the Plans and Specifications shall remain in full force and effect.

CITY OF TULSA

Eric Lee Director

HASTIGEROWARIMA

08/21/12

PROJECT NO. TMUA-W 21-02 TO#12 BERRYHILL WATER LINE REPLACEMENT

ARTICLE II. That the Authority shall pay to the Contractor for performance of the work embraced in this Contract, and the Contractor will accept as full compensation therefor, the sum (subject to adjustment as provided by the Contract) of AND /100 Dollars (\$) for all work covered by and included in the Contract award and designated in the foregoing Article I; payments therefore to be made in cash or its equivalent, in the manner provided in the General Conditions.
ARTICLE IIA. All materials and supplies to be purchased under the terms of this contract shall be ordered by the Contractor from the vendor or supplier who shall be directed to invoice the Tulsa Metropolitan Utility Authority direct. The invoice shall reflect any contractor discount and no sales tax shall be added. The invoice will be paid direct by the Tulsa Metropolitan Utility Authority in accordance with the terms and conditions of the invoice (Oklahoma Tax Commission Rules Part 27 Trust Authority 710:65-13-140). The monies paid direct by Tulsa Metropolitan Utility Authority to the vendor or supplier shall be deducted from the total contract price. The Contractor shall accept delivery and be responsible for and shall warrant and hold the Authority harmless for the safety and security of all of the materials and supplies furnished for the project under this contract.
ARTICLE III. That the Contractor shall start work within ten (10) days following the date stipulated in a written order from the Authority to proceed with the work to be performed hereunder, and shall complete the work within the number of consecutive calendar days after the authorized starting date, as stipulated below:
All Work Completed: 300 calendar days
<u>ARTICLE IV</u> . The sworn, notarized statement below shall be signed and notarized before this Contract will become effective.
ARTICLE V. Prior to submitting a final payment request, the Contractor shall furnish a lier waiver certifying that all subcontractors and suppliers have been paid.
IN WITNESS WHEREOF, the Authority and the Contractor hereto have set their hands and seals, respectively, this day of, 2025.

July 21, 2025

ADDENDUM NO. 3

TULSA METROPOLITAN UTILITY AUTHORITY WATERLINE REPLACEMENT CITY WIDE PROJECT NO. TMUA 21-02 TO 12

This Addendum No. 3 consisting of three (3) items, is hereby made a part of the Contract documents to the same extent as though it were originally included therein, and shall supersede anything contained in the Plans and Specifications with which it might conflict. All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.

This Addendum No. 3 consists of the following:

- 1. Bid Proposal Form Delete the existing Proposal in its entirety and replace with revised Proposal. The revised Proposal can be found at: https://www.cityoftulsa.org/government/departments/public-works/engineering-services/construction-bids/ for Project Number TMUA-W 21-02, TO #12 Berryhill Waterline Replacement. It is the Bidder's responsibility to download the revised Proposal for submittal. Revisions are summarized below:
 - a. Quantity of calendar days increased to 300
 - b. Added Line Items:
 - i. Line Item 012 Traffic Control (Per MUTCD)
 - ii. Line Item 025 Pavement Removal and Replacement for Water Main Installations (Asphalt)
 - iii. Line Item 026 Pavement Removal and Replacement for Water Main Installations (Concrete)
 - iv. Line Item 028 6 inch DIP, CL51 Polyethylene Wrapped (Nitrile Gasket)
 - v. Line Item 032 6 inch Ductile Iron 22-1/2 Degree Bend (RJ)
 - vi. Line Item 052 Conduit, By Bore (18-inch Steel)
 - vii. Line Item 056 6 inch DIP, CL51 Polyethylene Wrapped (Nitrile Gasket)
 - viii. Line Item 058 6 inch Ductile Iron 22-1/2 Degree Bend (RJ)
 - ix. Line Item 077 Conduit by Bore (18-Inch Steel)
 - x. Line Item 079 6 inch DIP, CL51 Polyethylene Wrapped (Nitrile Gasket)
 - xi. Line Item 083 8-Inch HDPE 22.5 Degree Bend (DIPS)
 - xii. Line Item 086 6-Inch Ductile Iron to HDPE Adaptor (RJ)
 - xiii. Line Item 102 Conduit by Bore (20-Inch Steel)
 - c. Removal of Line Items
 - i. Previously Line Item 012 Pavement, Removal and Replacement (Asphalt)
 - ii. Previously Line Item 013 Pavement, Removal and Replacement (Concrete)
 - iii. Previously Line Item 014 Sawcut
 - iv. Previously Line Item 096 18-inch Corrugated Polypropylene Pipe (CPP), Complete in Place

2. Drawings

- a. Cover sheet
 - i. Added Magellan Contact (918-630-2376)
 - ii. Added City of Tulsa Standard Detail 307 Bore Conduit
- b. Sheet 2, Summary of Quantities
 - i. Removed and added line items as described above in addendum item 1.
 - ii. Added note.
- c. Sheet 3, Summary of Quantities
 - i. Removed and added line items as described above in addendum item 1.
 - ii. Added note.
- d. Sheet 4, Pay Item Notes
 - i. Added pay item note 37; which is further described in below addendum item 3.
 - ii. Added Traffic Control Pay Item Notes
- e. Sheet 5, Proposed Utility Symbols
 - i. Added Bore Conduit
- f. Sheet 27, Demolition & Restoration Plan Line E
 - i. Reduced resod quantity
- g. Sheet 28, Demolition & Restoration Plan Line E
 - i. Added remove and replace of existing chain link fence
 - ii. Added Note 2
- h. Sheet 30, Demolition & Restoration Line F
 - i. Reduced resod quantity
- i. Sheet 32, Line 'A' Plan and Profile
 - i. Added existing meter to be removed label
- Sheet 36, Line 'B' Plan and Profile
 - i. Relocated Fire Hydrant B1
- k. Sheet 42, Line 'C' Plan and Profile
 - i. Added bore conduit below Magellan crossing
 - ii. Added labels for high-pressure pipeline
 - iii. Added warning label for high-pressure pipeline
 - iv. Added Note 6
- 1. Sheet 43, Line 'C' Plan and Profile
 - i. Added labels for high-pressure pipeline
- m. Sheet 44, Line 'C' Plan and Profile
 - i. Added labels for high-pressure pipeline
- n. Sheet 48, Line 'E' Plan and Profile
 - i. Added two 6-inch 22.5 degree bends
 - ii. Adjusted water line alignment
 - iii. Added uncased bore length
 - iv. Added Note 6
- o. Sheet 50, Line 'E' Plan and Profile
 - i. Relocated Fire Hydrant E2
- p. Sheet 52, Line 'F' Plan and Profile
 - i. Relocated Fire Hydrant B1
- q. Sheet 53, Line 'F' Plan and Profile
 - i. Add bore conduit below Magellan crossing
 - ii. Added labels for high-pressure pipeline
 - iii. Added warning label for high-pressure pipeline
 - iv. Added Note 6

- 3. Pay Item Pavement Removal and Replacement for Water, Sanitary, and Stormwater Main Installations
 - a. This pay item supersedes City of Tulsa Standard Specification Section 329.6, with respect to saw cutting and dowels, and includes the following (these items shall not be paid separately):
 - i. Saw cutting
 - ii. Dowels
 - iii. Disposal of broken pavement
 - iv. Temporary surfaces
 - v. Associated excavation
 - vi. Preparation of subgrade
 - vii. Forms or reinforcing
 - viii. Removal or replacement of gravel
 - ix. Additional saw cutting or replacement of pavement damaged by the Contractor
 - x. Joint sealer, tack coats, or edge sealing
 - b. This pay item does not include the following which shall be paid separately in accordance with City Standard Specifications, Details, and Drawings:
 - i. Curb and Gutter

All other provisions of the Plans and Specifications shall remain in full force and effect.

FREESE AND NICHOLS, INC.

WILLIAM C. HERNDON
28952

OKLAHOMA

WILLIAM C. HERNDON

OKLAHOMA

William C. Herndon, P.E. 07/21/2025

Project Manager

ELECTRONIC BID PROPOSAL INSTRUCTIONS - EXCEL SPREADSHEET BERRYHILL WATER LINE REPLACEMENT TMUA-W 21-02 TO#12

Please read the following instructions carefully.

- 1. After opening this file re-save it as your company's name.
- 2. Open the BID FORM Sheet from the tabs below.
- 3. Input the unit price of the appropriate pay item in the Data Input cells.
- 4. Review all data input and check calculations to ensure accuracy of Bid.
- 5. Print 1hardcopy of the "PROPOSAL" tab, BID FORM and the "SIGNATURE PAGE" tab.
- 6. Complete and sign the "Signature Page" document.
- 7. Submit hardcopy and electronic disk with Contract Documents and Specifications for Bid opening date.

LEGEND

- \$ 1.00 Cells Requiring Data Input.
- \$ 1.00 Internal Data Transfer.
- \$ 2.00 Calculated Results.

AGREEMENT FOR USING ELECTRONIC BID PROPOSAL

By and Between: Freese and Nichols, Inc., (ENGINEER) and RECIPIENT. The enclosed electronic media is provided pursuant to your request and is for your limited use in connection with your submittal of Bid Proposal for Project No. TMUA-W 21-02 TO#12. In no event shall the information be used for any other purpose or be released to third parties without the written consent of the ENGINEER. In the event of a discrepancy between the hard copy and this electronic media at delivery or in the future, the hard copy shall govern. ENGINEER hereby disclaims any and all liability for the consequences from use of the electronic media and makes no warranty or guarantee of accuracy. RECIPIENT shall assume full responsibility for the uses and consequences of the electronic media. It is agreed that ENGINEER has and retains ownership of the electronic media. ENGINEER does not warrant or guarantee that the electronic data is compatible with RECIPIENT'S computer hardware or software, and ENGINEER'S responsibility for the electronic media is limited to replacement of defective media for a period of thirty (30) days after delivery to RECIPIENT. By opening and using this FILE, You AGREE to these TERMS AND CONDITIONS.

PROPOSAL BERRYHILL WATER LINE REPLACEMENT TMUA-W_21-02 TO#12

TO: TULSA METROPOLITAN UTILITY AUTHORITY CITY OF TULSA, OKLAHOMA

THE UNDERSIGNED BIDDER, having carefully examined the drawings, specifications, and other Contract Documents of the above project presently on file in the City Clerk, City of Tulsa Oklahoma:

CERTIFIES THAT he has inspected the site of the proposed work and has full knowledge of the extent and character of the work involved, construction difficulties that may be encountered, and materials necessary for construction, class and type of excavation, and all other factors affecting or which may be affected by the specified work; and

CERTIFIES THAT he has not entered into collusion with any other bidder or prospective bidder relative to the project and/or bid: and

HEREBY PROPOSES: to enter into a contract to provide all necessary labor, materials, equipment and tools to completely construct and finish all the work required by the Contract Documents hereto attached and other documents referred to therein: to complete said work within 300 calendar days after the work order is issued; and to accept in full payment therefore the amount set forth below for all work actually performed as computed by the Engineer as set forth in the Contract.

Basis of Award

THE BID PROPOSAL INCLUDES A BASE BID WITH THREE WATERLINE MATERIAL OPTIONS PLUS ADDITIVE ALTERNATE 1. IT SHOULD BE NOTED THAT THE LOWEST RESPONSIBLE TOTAL BID SHALL BE DETERMINED BY THE BASE BID WITH THE LOWEST OF THE MATERIAL OPTIONS PLUS ADDITIVE ALTERNATES 1. TULSA MUNICIPAL AUTHORITY (TMUA) RESERVES THE RIGHT TO SELECT EITHER MATERIAL OPTION IN THE EVENT THE BID COSTS OF THE THREE MATERIAL OPTIONS ARE EQUAL. THE ITEM IN ADDITIVE ALTERNATE 1 MAY OR MAY NOT BE INCLUDED IN THE CONTRACT AWARD AT THE SOLE DISCRETION OF TMUA. ANY PROPOSAL SUBMITTED WITH ANY MATERIAL OPTION OR ADDITIVE ALTERNATE INCOMPLETE SHALL BE CONSIDERED NON-RESPONSIVE.

Note: - Item numbers omitted are not a part of the Contract.

PROPOSAL BERRYHILL WATER LINE REPLACEMENT TMUA-W 21-02 TO#12

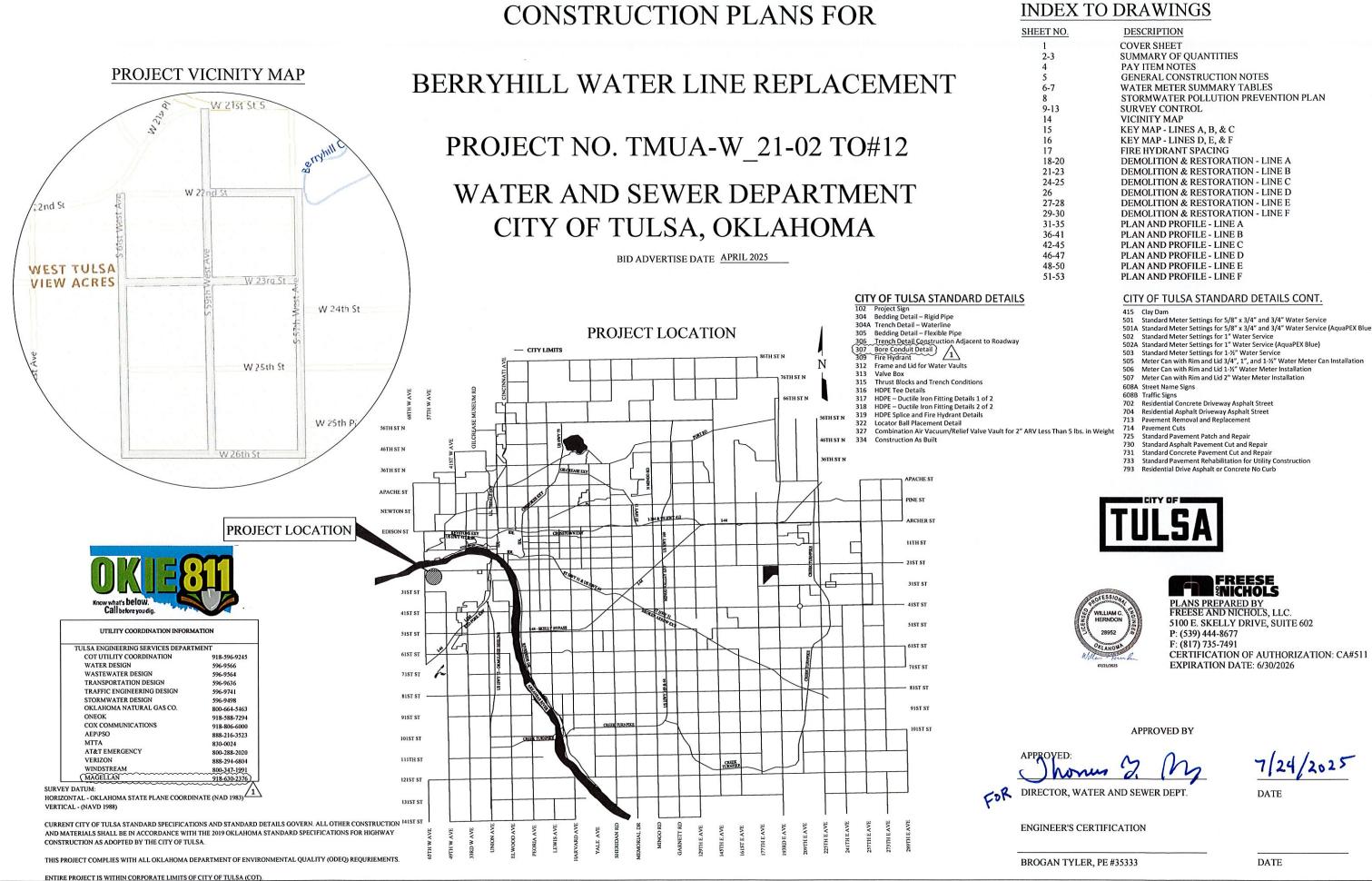
ITEM	орот	SPEC NO.	OESCRIPTION	UNIT	QTY	DATA INPUT UNIT PRICE	TOTAL EACH
			BASE BID:				
)1)2			PROJECT SIGN (CITY OF TULSA)	EA	1		š
)3 (3		COT 302	RIGHT-OF-WAY CLEARING AND RESTORING, COMPLETE IN PLACE EXCAVATION AND BACKFILL, UNCLASSIFIED	SY	4040 5640	<u> </u>	\$
16		COT 303	MOBILIZATION	EA	1		\$
6		COT 317	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER 2 INCH AIR VALVE ASSEMBLY	EA EA	19		\$
? 6			3-WAY FIRE HYDRANT, IN PLACE 12 INCH GATE VALVE (RJ)	EA EA	12		s
9		COT 318	VALVE BOX	EA	21		\$
<u>0</u>			SODDING AND SEEDING STREET WASH DOWN	SY LF	7420 9880		\$
3		COT 327	TRAFFIC CONTROL (PER MUTCO)	CD	300		ş
4		COT 334	EXISTING WATERLINE ABANDONMENT CONSTRUCTION AS BUILT	LF EA	5958 1	<u> </u>	ş
5 B	<u> </u>		CONTRACTOR QUALITY CONTROL SHEET ALUMINUM SIGNS	LSUM SF	1 154		ş
7		COT 605	1 1/2' SQUARE TUBE POST	LF	18		ş
9			13'4' SQUARE TUBE POST 2' SQUARE TUBE POST	LF.	147 39		5
1		SPECIAL	OWNER ALLOWANCE REMOVAL DRIVEWAY CULVERT	ALLOW	150000	\$1.00	\$ 150,0
2	220	SPECIAL	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	175		5
4	642	SPECIAL	CONSTRUCTION STAKING FENCE REMOVE AND REPLACEMENT OUTSIDE ROW	EA.	1		3
5		SPECIAL	PAVEMENT REMOVAL AND REPLACEMENT FOR WATER MAIN INSTALLATIONS (ASPHALT)	SY SY	1040		3
	<u> </u>	SPECIAL	PAVEMENT REMOVAL AND REPLACEMENT FOR WATER MAIN INSTALLATIONS (CONCRETE) TOTAL BASE BID	YS	80		\$ \$ 150.0
							[4 130,0
			MATERIAL OPTION #1 - PVC				
7 8		COT 307	6 INCH DIP, CL51 POLYETHYLENE WRAPPED (RJ); 6 INCH DIP, CL51 POLYETHYLENE WRAPPED (RJ) (NITRILE GASKET)	LF	1813		5
9		COT 309	6 INCH PVC AVAWA C900 CLASS 200 DR-14	LF	212 5585		\$
1		COT 309 COT 312	E INCH PVC AWAYA C900 CLASS 200 DR-14 (RJ) E INCH DUCTILE IRON 11-1/4 DEGREE BEND (RJ)	LF EA	2360 7		3
3	ļ	COT 312	8 INCH DUCTILE IRON 22-1/2 DEGREE BEND (RJ)	EA	6		\$
4		COT 312	8 INCH DUCTILE IRON 45 DEGREE BEND (R.) E INCH DUCTILE IRON 90 DEGREE BEND (R.)	EA EA	44 1	<u> </u>	5
6 6		COT 312	12 INCH X B INCH DUCTILE IRON TEE (RJ) B INCH X 6 INCH DUCTILE IRON TEE (RJ)	EA EA	2		\$
7		COT 312	12 INCH DUCTILE IRON SLEEVE (RJ)	. EA	19		ş S
8 9	Ŀ	COT 312 COT 315	S INCH DUCTILE IRON SLEEVE (RJ) 3/4 INCH WATER SERVICE CONNECTION (SHORT)	EA EA	56		\$
1		COT 315	3/4 INCH WATER SERVICE CONNECTION (LONG)	EΑ	49		\$
2		COT 315	3/4 INCH WATER SERVICE LINE EXTENSION 3/4 INCH WATER METER CAN, LID, & RIM	EA.	19		\$ \$
3 4	ļ	COT 315	1 INCH WATER SERVICE LINE CONNECTION (SHORT) 1 INCH WATER SERVICE LINE CONNECTION (LONG)	EA	+		\$
5		COT 315	1 INCH WATER SERVICE LINE EXTENSION	EA LF	1		\$ \$
7		COT 315	1 INCH WATER METER CAY, LID, & RIM 2 INCH WATER SERVICE CONNECTION (SHORT)	EA EA	1-		\$
8		COT 315	2 INCH WATER SERVICE CONNECTION (LONG) 2 INCH WATER SERVICE LINE EXTENSION	EA	1		s
0		COT 317	BINCH GATE VALVE (RJ)	LF EA	19		\$
2	<u> </u>	COT 312	S INCH DUCTILE IRON TO PVC ADAPTOR (RJ) CONDUIT, BY BORE (18-INCH STEEL)	EA LF	40 212		s
3		COT 328	S-INCH BORE (UNCASED) TOTAL BASE BID PLUS MATERIAL OPTION #1 - PVC	ĹF	1813		s
							\$ 150,0
			MATERIAL OPTION #2 - DIP				
4		COT 307	MATERIAL OPTION MZ - DIP 6 INCH DIP, CLES POLYTEMY ENE WRAPPEO	LF.	5585		\$
5 6		COT 307	G INCH DIP, CLÉS POLYETHYLENE WRAPPEO S INCH DIP, CLES POLYETHYLENE WRAPPEO (RJ) S INCH DIP, CLES POLYETHYLENE WRAPPEO (RJ) (NITRILE GASKET)	LF LF	5585 4173 212		\$ \$
5 6 7		COT 307	6 INCH DIP, CLB1 POLYETHYLENE WRAPPEO 8 INCH DIP, CLB1 POLYETHYLENE WRAPPEO (RJ) 8 INCH DIP, CLB1 POLYETHYLENE WRAPPEO (RJ) 8 INCH DIP, CLB1 POLYETHYLENE WRAPPEO (RJ) 8 INCH DIPTLE IRON 11-140 DEGREE BEND (RJ)	LF LF EA	4173 212 7		\$ \$
5 6 7 8		COT 307 COT 312 COT 312 COT 312	S INCH DIP, CLES POXTETIVILENE WRAPPEO BINCH DIP, CLES POXTETIVILENE WRAPPEO (R) BINCH DIP, CLES POXTETIVILENE WRAPPEO (R) BINCH DIP, CLES POXTETIVILENE WRAPPEO (R) BINCH DUCTILE IRON 11-14 DEGREE SEMO (R,1) BINCH DUCTILE IRON 12-14 DEGREE SEMO (R,1) BINCH DUCTILE IRON 42-DEGREE DEMO (R,1) BINCH DUCTILE IRON 45-DEGREE DEMO (R,1)	LF LF EA EA	4173 212 7 6 44		\$ \$ \$ \$
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5 6 7 8 9 0 1 1 2 3 3 4 5 8 7 8		COT 307 COT 307 COT 307 COT 312 COT 315	SINCH DIP, CLEE POXYETHYLENE WRAPPEO BINCH DIP, CLEE POXYETHYLENE WRAPPEO (R) BINCH DIP, CLEE POXYETHYLENE WRAPPEO (R) BINCH DIP, CLEE POXYETHYLENE WRAPPEO (R) BINCH DUCTILE RICH 12 I DECRREE SEND (R) BINCH DUCTILE RICH 12 I DECRREE SEND (R) BINCH DUCTILE RICH 3E DEGREE BEND (R) BINCH DUCTILE RICH 3E DEGREE BEND (R) BINCH DUCTILE RICH 3E DEGREE BEND (R) BINCH DUCTILE RICH SED SED SEND (R) BINCH DUCTILE RICH SED SED SEND (R) BINCH AS BINCH DUCTILE RICH THE RICH BINCH AS BINCH DUCTILE RICH SED SEEVE RICH BINCH SEND SEEVE RICH BINCH SED SERVE RICH BINCH B	EA E	4173 212 7 6 44 1 2 19 2 1 58 49 1 1 19 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 6 7 8 9 0 1 2 3 4 4 5 5 8 9 0 1 1 2 2		COT 307 COT 307 COT 307 COT 307 COT 312 COT 315	SINCH DIP, CLEET POXYETHYLENE WRAPPEO (B) BINCH DUCTILE IRON 12 10 DEGREE SEND (RL) BINCH DUCTILE IRON 12 10 DEGREE SEND (RL) BINCH DUCTILE IRON 12 DEGREE SEND (RL) BINCH DUCTILE IRON 18 DEGREE SEND (RL) BINCH DUCTILE IRON 18 DEGREE SEND (RL) BINCH DUCTILE IRON 18 DEGREE SEND (RL) BINCH AS BINCH DUCTILE IRON 18 TEST, BINCH AS BINCH DUCTILE IRON 18 DEGREE SEND (RL) BINCH AS BINCH DUCTILE IRON 18 DEGREE (RL) BINCH AS BINCH DUCTILE IRON 18 DEGREE (RL) BINCH WATER SERVICE CONSECTION 19 DEGREE SEND (B) BINCH WATER SERVICE CONSECTION 19 DEGREE BINCH DUCTION 19 DEGREE BI	LF LF EA	4173 212 7 6 44 1 2 19 2 1 58 49 1 1 19 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 6 7 8 9 0 0 1 1 2 3 3 4 5 8 7 8 9 9 0 0 1 1 2 2 3 3		COT 307 COT 307 COT 307 COT 312 COT 315	SINCH DIP, CLIST POXYETHYLENE WRAPPEO BUILDING TO STATE OF THE STATE O	LF LF EA	4173 212 7 6 44 1 2 19 2 1 58 49 1 1 19 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 6 7 8 9 9 0 1 1 2 3 3 4 4 5 8 9 9 0 1 1 1 2 1 3 1 8 9 9 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		COT 307 COT 307 COT 307 COT 312 COT 315	SINCH DIP. CLIST POXYETHYLENE WRAPPEO (B) BINCH DUCTILE IRON 15 DEGREE SEND (RL) BINCH DUCTILE IRON 15 DEGREE SEND (RL) BINCH DUCTILE IRON 16 DEGREE SEND (RL) BINCH DUCTILE IRON SIESEVE (RL) BINCH WATER SERVICE CONNECTION (CHOIC) BINCH WATER SERVICE CONNECTION (CHOIC) BINCH WATER SERVICE CONNECTION (CHOIC) BINCH WATER SERVICE CONNECTION (GNORT) BINCH WATER SERVICE CONNECTION (SNORT) BINCH WATER SERVICE CONNECTION (GNORT)	LF LF LF EA	4173 212 7 6 44 1 1 2 19 2 1 58 49 1 1 1 1 1 1 1		\$
5 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 3 3 4 4 5 5 5 8 6 7 7		COT 307 COT 307 COT 312 COT 313 COT 315	SINCH DIP, CLES POXYETIVE ENE WRAPPEO (B) BINCH DUCTILE IRON 12 LIVE BERN BERN (B) BINCH DUCTILE IRON 12 LIVE BERN BERN (B) BINCH DUCTILE IRON 12 DEGREE SEND (B) BINCH DUCTILE IRON SIE SEVE (B) BINCH DUCTILE SERVICE CONNECTION (SHORT) BINCH WATER SERVICE CONNECTION (SHORT) BINCH WATER SERVICE DONNECTION (SHORT) BINCH WATER SERVICE DONNECTION (SHORT) BINCH WATER SERVICE DONNECTION (SHORT) BINCH WATER SERVICE CONNECTION (SHORT) BINCH WATER SERVICE CONNECTION (SHORT) BINCH WATER SERVICE DONNECTION (SHORT) BINCH WATER SERVICE CONNECTION (SHORT) BINCH WATER SERVICE DONNECTION (SHORT) BINCH WATER SERVICE DIPS SEVEN (SHORT)	EA E	4173 212 7 6 44 1 2 19 2 1 58 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
5 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 3 3 4 4 5 5 5 8 6 7 7		COT 307 COT 307 COT 312 COT 313 COT 315	SINCH DIP. CLEE POXYETHYLENE WRAPPEO (B) BINCH DUCTILE RICH 12 PLOSERE SEND (R.) BINCH DUCTILE RICH 12 PLOSERE SEND (R.) BINCH DUCTILE RICH 3 EDERGE REND (R.) BINCH DUCTILE RICH 3 EDERGE REND (R.) BINCH DUCTILE RICH 3 EDERGE REND (R.) BINCH SEND BOUTHER RICH THE REND (B) BINCH SEND BOUTHER RICH THE RICH 3 BINCH SEND BOUTHER RICH THE RICH 3 BINCH SEND BOUTHER RICH SEND TEE (R.) BINCH SEND BOUTHER RICH SEND TEE (R.) BINCH SEND BOUTHER RICH SEND TEE (R.) BINCH SEND BERVIOLE SEND BOUTHER RICH SEND TEE (R.) BINCH SEND BERVIOLE CONNECTION (SHORT) SEND BOUTHER RICH SEND SEND BOUTHER S	LF LF EA	4173 212 7 6 44 1 2 19 2 1 58 49 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 3 3 4 4 5 5 5 8 6 7 7		COT 307 COT 307 COT 312 COT 313 COT 315	SINCH DIP, CLES POXYETIVE ENE WRAPPEO (B) BINCH DUCTILE IRON 12 LIVE BERN BERN (B) BINCH DUCTILE IRON 12 LIVE BERN BERN (B) BINCH DUCTILE IRON 12 DEGREE SEND (B) BINCH DUCTILE IRON SIE SEVE (B) BINCH DUCTILE SERVICE CONNECTION (SHORT) BINCH WATER SERVICE CONNECTION (SHORT) BINCH WATER SERVICE DONNECTION (SHORT) BINCH WATER SERVICE DONNECTION (SHORT) BINCH WATER SERVICE DONNECTION (SHORT) BINCH WATER SERVICE CONNECTION (SHORT) BINCH WATER SERVICE CONNECTION (SHORT) BINCH WATER SERVICE DONNECTION (SHORT) BINCH WATER SERVICE CONNECTION (SHORT) BINCH WATER SERVICE DONNECTION (SHORT) BINCH WATER SERVICE DIPS SEVEN (SHORT)	EA E	4173 212 7 6 44 1 2 19 2 1 58 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
5 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 3 3 4 4 5 5 5 8 6 7 7		COT 307 COT 307 COT 312 COT 313 COT 315	SINCH DIP, CLES PROVETIVILENE WRAPPEO (B) BINCH DUETILE RICH 12 JU DEGREE SEND (R,1) BINCH DUETILE RICH 12 JU DEGREE SEND (R,2) BINCH DUETILE RICH 35 DEGREE SEND (R,2) BINCH 35 DEGREE BEND (R,2) BINCH 35 DEGREE SEND (R,2) BINCH 35 DEGREE BERD (R,3) BINCH 35 DEG	EA E	4173 212 7 6 44 1 2 19 2 1 58 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		COT 307 COT 307 COT 307 COT 312 COT 315 COT 31	SINCH DIP, CLEST POXYETHYLENE WRAPPEO (B) BINCH DIP, CLIST POXYETHYLENE WRAPPEO (B) BINCH DIP, CLIST POXYETHYLENE WRAPPEO (B) BINCH DIP, CLIST POXYETHYLENE WRAPPEO (B) BINCH DUETTLE RICH 11 14 DEORRE SEND (R,1) BINCH DUETTLE RICH 12 14 DEORRE SEND (R,1) BINCH DUETTLE RICH 12 14 DEORRE SEND (R,1) BINCH OUTTLE RICH 35 DEORRE SEND (R,2) BINCH DUETTLE RICH 35 DEORRE SEND (R,2) BINCH OUTTLE RICH 35 DEORRE SEND (R,2) BINCH AS BINCH DUETTLE RICH 12 (B) BINCH DUETTLE RICH 35 DEORRE SEND (R,2) BINCH OUTTLE RICH 35 DEORRE SEND (R,2) BINCH OUTTLE RICH 35 DEORRE RICH	EA E	4173 212 7 6 44 1 1 2 1 1 1 2 1 1 5 8 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		COT 307 COT 307 COT 307 COT 312 COT 313 COT 312 COT 312 COT 315 COT 31	SINCH DP. CLEST POXYETHYLENE WRAPPEO (B) BINCH DP. CLEST POXYETHYLENE BY BOOK (B) BINCH DP. CLEST POXYETHYLENE WRAPPEO (B) BINCH DP. CLEST POXYETHYLENE BY BOOK SEEPEN BINCH DP. CLEST POXYETHYLENE BY BOOK SEEPEN (B) BINCH WATER SERVICE CONNECTION (B) BINCH WATER SERVICE CONNECTIO	EA E	4173 212 7 6 44 1 2 1 19 2 1 1 58 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		COT 307 COT 307 COT 307 COT 312 COT 313 COT 313 COT 313 COT 315 COT 31	SINCH DIP, CLIST POXYETHYLENE WRAPPEO (B) BINCH DUCTILE IRON 11-10 PEORES ESHO (R.) BINCH DUCTILE IRON 12-10 PEORES ESHO (R.) BINCH DUCTILE IRON 15 DEGREE BENO (R.) BINCH DUCTILE IRON 15 DEGREE (R.) BINCH WAITER SERVICE CONNECTION (BORT) BINCH WAITER SERVICE CONNECTION (BORT) BINCH WAITER WAITER SERVICE CONNECTION (BORT) BINCH WAITER SERVICE CONNECTION (BORT) BI	LF L	4173 212 7 6 44 44 1 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		COT 307 COT 307 COT 307 COT 307 COT 312 COT 313 COT 315 COT 31	SINCH DIP, CLIST POXYETHYLENE WRAPPEO (B) BINCH DUCTILE IRON 11-10 PEOREE SEND (RL) BINCH OUGTILE IRON 12-10 PEOREE SEND (RL) BINCH OUGTILE IRON 15-10 PEOREE (RL) BINCH OUGTILE SERVICE CONNECTION (RONG) BINCH WATER SERVICE CONNECTION (RONG) BINCH WATER SERVICE IN SERVI	LF L	1173 212 7 6 44 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		COT 307 COT 307 COT 307 COT 312 COT 313 COT 31	SINCH DIP, CLEST POXYETHYLENE WRAPPEO (B) BINCH DUCTILE IRON 12 INDERGREE SEND (RL) BINCH DUCTILE IRON SELEVE (RL) BINCH DUCTILE	LF EA	1173 212 2 12 6 44 1 1 2 2 1 19 2 1 5 58 4 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		COT 307 COT 307 COT 307 COT 312 COT 313 COT 31	SINCH DIP, CLEST POXYETHYLENE WRAPPEO (B) BINCH DUCTILE IRON 12 INCERCES ESEND (RL) BINCH DUCTILE IRON 12 INCERCES ESEND (RL) BINCH DUCTILE IRON 12 DEGREE BEND (RL) BINCH DUCTILE IRON 18 DEGREE IRON 18 DEGREE BEND (RL) BINCH DUCTILE IRON 18 DEGREE IRON 18 DEGREE BEND (RL) BINCH WATER SERVICE CONNECTION (B) DEGREE BEND (RL) BINCH WATER SERVICE DEGREE BEND (RL) BINCH WATER SERVICE SE	LF EA	1173 212 212 7 6 44 1 1 2 2 1 1 2 2 1 1 2 2 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 5 5 7 7 3 3 4 4 5 5 5 7 7 7 3 3 3 4 4 5 5 5 7 7 7 3 3 3 4 4 5 5 5 5 5 7 7 7 7 3 3 3 3 4 4 5 5 5 5 5 7 7 7 7 3 3 3 3 4 4 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7		COT 307 COT 307 COT 307 COT 318	SINCH DP. CLEET POXYETHYLENE WRAPPEO (B) BINCH DD. CLEET POXYETHYLENE WRAPPEO (B) BINCH DD. CLEET POXYETHYLENE WRAPPEO (B) BINCH DD. CLEET ROWN 1.14 DECORRES BEND (B) BINCH DD. CLEET ROWN 1.15 DECORRES BEND (B) BINCH WATER SERVICE CONNECTION (B) BINCH WATER SERVICE C	LF L	1173 212 7 6 6 44 44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 6 7 7 8 8 9 9 9 9 9 1 1 2 2 3 3 4 4 5 5 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		COT 307 COT 307 COT 307 COT 312 COT 313	SINCH DIP, CLEST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DUP, CLIST POXYETHYLE WRAPPEO (B) SINCH DUP, CLIST POXYETHYLE WRAPPEO (B) SINCH DUP, CLIST ROW 11 1/14 DEGREE SEND (B) SINCH DUP, CLIST ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH DUP, CLIST POLYTIPHE SEND ROW 12 DEGREE SEND (B) SINCH	LF EA	4173 212 7 6 44 1 1 2 1 1 2 1 1 2 2 1 1 5 8 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 6 7 7 8 9 9 0 0 1 1 2 2 3 3 4 4 5 5 9 9 0 0 1 1 2 2 3 3 4 4 5 5 9 9 0 0 1 1 2 2 3 3 4 4 5 5 9 9 0 0 1 1 2 2 3 3 4 5 5 5 7 7 8 8 9 9 0 0 1 1 2 2 3 3 3 4 5 5 5 7 7 8 9 9 9 0 0 1 1 2 2 2 3 3 3 4 5 5 5 7 7 8 9 9 9 0 0 1 1 2 2 2 3 3 3 4 5 5 5 7 7 8 9 9 9 0 0 1 1 2 2 2 3 3 3 4 5 5 5 7 7 8 9 9 9 9 0 0 1 1 2 2 2 3 3 3 4 5 5 5 7 7 8 9 9 9 9 0 0 1 1 2 2 2 2 3 3 3 4 5 5 5 7 7 8 9 9 9 9 9 0 0 1 1 2 2 2 2 2 3 3 3 4 5 5 5 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		COT 307 COT 307 COT 307 COT 312 COT 313 COT 31	SINCH DIP, CLEST POXYETHYLENE WRAPPEO (B) SINCH DUCTILE ROW 12 1/10 ERGREE SEND (R) SINCH DUCTILE ROW 12 1/10 ERGREE SEND (R) SINCH DUCTILE ROW 12 1/10 ERGREE SEND (R) SINCH DUCTILE ROW 15 DOES BE SEND (R) SINCH DUCTILE REPROSE CONNECTION (SHORT) SINCH WATER SERVICE CONNECTION (SHORT)	LF EA LF EA LF EA	4173 212 7 6 444 1 1 2 19 2 2 1 1 5 8 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5		COT 307 COT 307 COT 307 COT 312 COT 313 COT 31	SINCH DIP, CLIES PROXETHYLENE WRAPPEO (B) BINCH DIP, CLIES POXETHYLENE WRAPPEO (B) BINCH DUCTILE IRON 12 DEGREE SEND (R) BINCH WATER SERVICE CONNECTION (BORT) BINCH WATER SERVICE SON (BORT) BINCH WATER SERVICE SON (BORT) BINCH WATER SERVICE SON (BORT) BINCH WATER SERVICE CONNECTION (BORT)	LF L	4173 212 212 19 10 10 10 10 10 10 10 10 10 10 10 10 10		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 6 6 6 7 7 8 8 9 9 9 9 1 1 2 2 3 3 4 4 5 5 6 6 7 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		COT 307 COT 307 COT 307 COT 317	SINCH DIP, CLIST POXYETHYLENE WRAPPEO (B) BINCH DUCTILE IRON 12 DEGREE SEND (R.) BINCH WATER SERVICE CONNECTION (BORT)	IF EA EA EA EA EA EA EA E	4173 212 212 7 6 44 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		COT 307 COT 307 COT 307 COT 317	SINCH DP. CLES POXYETHYLENE WRAPPEO (B) BINCH DD. CLES POXYETHYLENE BEND (B) BINCH DD. CLES POXYETHYLENE BEND (B) BINCH DD. CLES POXYETHYLENE BEND (B) BINCH DD. CLES POXYETHYLENE WRAPPEO (B) BINCH DD. CLES	F	14773 212 212 2 12 2 12 2 12 2 12 2 12 2 2 12 2 5 58 44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		COT 307 COT 307 COT 307 COT 312 COT 313 COT 31	SINCH DP, CLEST POXYETHYLENE WRAPPEO (B) BINCH DUCTILE IRON 12 LOEGREE SEND (R.) BINCH AS BINCH DUCTILE IRON 12 LOEGREE SEND (R.) BINCH WATER SEND (SEND (R.) BINCH WATER SERVICE CONNECTION (SHORT) BINCH WATER SERVICE SERVICE SEND (SHORT) BINCH WATER SERVICE SEND (SHORT) BINCH WATER SERVICE SEND (SHORT) BINCH WATER SERVICE SONNECTION (SHORT) BINCH	IF EA EA EA EA EA EA EA E	4173 212 212 2 5 56 44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		COT 307 COT 30	SINCH DP, CLIST POXYETHYLENE WRAPPEO (B) BINCH DD, CLIST POXYETHYLENE WRAPPEO (B) BINCH DUCTILE IRON 12 DEGREE SEND (RL) BINCH DUCTILE IRON 12 DEGREE BEND (RL) BINCH DUCTILE IRON 12 DEGREE IRON 12 DEGREE SEND (RL) BINCH DUCTILE IRON 12 DEGREE IRON 12 DEGREE BEND (RL) BINCH DUCTILE IRON 12 DEGREE IRO	LF LF LF LF LF LF LF LF	4173 212 212 1 5 5 6 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5		COT 307 COT 307 COT 307 COT 317 COT	SINCH DIP, CLEST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DUP, CLIST ROW 12 DEGRAGE SEND (B) SINCH DUP, CLIST ROW 12 DEGRAGE SEND (B) SINCH DUP, CLISTON 12 DEGRAGE SEND (B) SINCH D	IF EA EA EA EA EA EA EA E	4173 212 212 2 212		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 5 6 6 6 7 7 7 7 3 3 3 4 4 5 5 5 5 7 7 7 3 3 3 4 4 4 5 5 5 5 7 7 7 7 3 3 3 3 4 4 4 5 5 5 5 5 7 7 7 7 3 3 3 3 3 3 3 3 3 3 3		COT 307 COT 307 COT 307 COT 317 COT	SINCH DIP, CLEST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DUP, CLIST ROW 12 DEGRAGE SEND (B) SINCH DUP, CLIST ROW 12 DEGRAGE SEND (B) SINCH DUP, CLISTON 35 DEGRAGE SEND (B) SINCH D	IF EA EA EA EA EA EA EA E	4173 212 212 1 5 5 6 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
5 5 5 5 7 7 8 8 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1		COT 307 COT 307 COT 307 COT 317 COT	SINCH DIP, CLEST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DIP, CLIST POXYETHYLE WRAPPEO (B) SINCH DUP, CLIST ROW 12 DEGRAGE SEND (B) SINCH DUP, CLIST ROW 12 DEGRAGE SEND (B) SINCH DUP, CLISTON 12 DEGRAGE SEND (B) SINCH D	LF LF LF LF LF LF LF LF	4173 212 212 25 49 49 11 11 11 11 11 11 11 11 11 11 11 11 11		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

TOTAL BID (Base Bid with the lower of the 3 Material Options) ITEMS 001 true 090) TOTAL LOWEST BID WITH ADD ALT 1

\$ 150,000.00 \$ 150,000.00

Enclosed is a () Bidder's Surety Bond, () Certified Check, () Cashier's Check			
Words			Dollars	(\$	Figures)
the work covered for opening of bid	Tulsa may retain or recover as by this proposal, provided the 0 s and the undersigned fails to e Contract Documents within thi	Contract is awarded to texecute said Contract ar	he undersigned with nd furnish the requir	nin thirty (30) days from th	e date fixed
Dated at Tulsa, C	Oklahoma, this day of		, 20	-		
	Respectfully submi	itted,				
	(Complete legal name of	company)				
	(State of Organiz	ation)				
Ву:		ATT	TEST:			
Title: Printed Name:		Title: Cor Printed Nar	porate Secretary me:	(SEAL)		-
		Address:				 _
						_
Telephone Numb	per:	Fax Num	ber:			_
By signing above	the bidder acknowledges rece	ipt of the following Adde	enda (give number a	and date of	each):	

BASE BID PLUS PVC OPTION 1	_\$	150,000.00
BASE BID PLUS DIP OPTION 2	<u>\$</u>	150,000.00
BASE BID PLUS HDPE OPTION 3	_\$	150,000.00
BASE BID PLUS LOWEST OF OPTION 1/2/3	\$	150,000.00
TOTAL LOWEST BID PLUS ADD ALT 1	\$	150,000.00



ITEM	DDOTSPEC. NO.	DESCRIPTION BASE BID	PAY ITEM NOTE	SUMMARY O			GENERAL	CUT 24	CUT 55	LINE 'A'	Leur ac'	CUT OF	CUT AC	cur on '	LINE	'B'	Leuw '	eum :-	euw '	LINE	'C'	5117.45
1 2		-WAY CLEARING AND RESTORING, COMPLETE IN PLACE	4, 5, 6, 7, 22, 34	1 4040	1 2557.5		1	210	191.5	147	SHT. 34 181	20	222.5	SHT. 37 197.5	237		SHT. 40 191.5	60	1-1-1-1			SHT. 45 192.5
3 4 5	COT 303 MOBILIZA	ON AND BACKFILL, UNCLASSIFIED TION ERVICE CONNECTION BY LICENSED BONDED PLUMBER	13, 17	5640 1	3532 1	CY EA	1	285	256	220	200	36	295	295	390	190	300		175	240	310	265
6 7	COT 317 2 INCH AIR		13, 17	19 1 12	14	EA EA		1	5		1		1	1	1	1	1		1	1	1	=
8 9	COT 317 12 INCH G COT 318 VALVE BO	ATE VALVE (RJ)	8 21	2 21	13	EA EA		1	1	1	1	1 2	1	1	1	1	777.75	1 2	1	1	1	
10 11	COT 325 SODDING COT 326 STREET W		23	7420 9880	4370 6650	SY LF		400 500	335 500	295 500	365 500	50 40	415 500	385 500	290 500	275 500	325 500	105 120	180 500	345 500	250 500	355 490
1 (12)	COT 333 EXISTING	WATERLINE ABANDONMENT	TC 1, 2, 3 5, 9 24, 25, 27	300 8988 1	300 6815 1	LF EA	300	500	500	515	535	35	500	500	500	500	500	120	600	600	600	310
15 16	COT 335 CONTRACT	TOR QUALITY CONTROL UMINUM SIGNS	24,25,27	1 154	1 113	LSUM				14		20	5	6		6	14		6	14	14	14
17 18 19	COT 606 1 3/4" SQL	UARE TUBE POST		18 147	12 115.5	LF				10.5		21	10.5	10.5		10.5			10.5			2 10.5
20	SPECIAL OWNER A		18	39 150000 475	33 150000 325	LF ALLOW LF	150000	20		3		6	20	20	85	25	3 40		3	3	3	115
22 23	220 SPECIAL SWPPP DO 642 SPECIAL CONSTRU	OCUMENTATION AND MANAGEMENT CTION STAKING	32, 33, 34, 35	1 1	1 1	LSUM EA	1						20	20	- 05		40					113
1 24 25 26	SPECIAL PAVEMEN	MOVE AND REPLACEMENT OUTSIDE ROW IT REMOVAL AND REPLACEMENT FOR WATER MAIN INSTALLATIONS (ASPHALT) IT REMOVAL AND REPLACEMENT FOR WATER MAIN INSTALLATIONS(CONCRETE)	31, 37 30, 37	100 1040	835	LF SY		40	105	30	50	30	60	90	100	20	40		85	20	80	85
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	COT 307 6 INCH DII	P, CL51 POLYETHYLENE WRAPPED (RJ)	1, 2, 3, 8, 9, 11, 27, 28	80 OPTIO 1813	80 N 1 - PVC 1535	SY	1 - 1	80	117	206	138		55	105	26	220	25	15	105	15 150	111	105
1 (28)	COT 307 6 INCH DII COT 309 6 INCH PV	P, CL51 POLYETHYLENE WRAPPED (RJ) (NITRILE GASKET) /C AWWA C900 CLASS 200 DR-14	1, 2, 3, 8, 9, 11, 27, 28 1, 2, 3, 9, 10, 27, 29	212 5585	174 3372	LF LF		265	330	114	122		194	302	337	209	297	67	174 169	296	333	337
$ \begin{array}{c c} 30 \\ \hline 31 \\ \hline (32) \end{array} $	COT 312 6 INCH DU	/C AWWA C900 CLASS 200 DR-14 (RI) JCTILE IRON 11-1/4 DEGREE BEND (RI) JCTILE IRON 22-1/2 DEGREE BEND (RI)	1, 2, 3, 8, 9, 10, 27, 29 2, 8 2, 8	2360 7 6	1644 5 4	EA EA		160	63	180	255	40	261 2 4	108	147	71	86	53	57	59	56	48
33 34	COT 312 6 INCH DU	JCTILE IRON 45 DEGREE BEND (RJ) JCTILE IRON 90 DEGREE BEND (RJ)	2,8	44	26	EA EA		6		2	8		4				2		2			2
35 36	COT 312 12 INCH X COT 312 6 INCH X	6 INCH DUCTILE IRON TEE (RJ) 6 INCH DUCTILE IRON TEE (RJ)	2,8	2 19	2 15	EA EA		2	1	1	1	1	2	1	3	1		1	1	1	1	
37 38 39	COT 312 6 INCH DU	Juctile Iron Sleeve (rj) Jctile Iron Sleeve (rj) Water Service Conrection (short)	2, 8 2, 8 15, 16, 17	2 1 56	2 1 51	EA EA		1 3	6	-	1	1	4	4	3	c	2	1	-		2	
40 41	COT 315 3/4 INCH COT 315 3/4 INCH	WATER SERVICE CONNECTION (LONG) WATER SERVICE LINE EXTENSION	15, 16, 17 15, 16, 17 15, 16, 17	49	39	EA LF		3	7	6	5	1	1	6	8	1	2	1	5	4	2	
42 43	COT 315 1 INCH W	WATER METER CAN, LID, & RIM ATER SERVICE LINE CONNECTION (SHORT)	15, 16, 17	19 1	14	EA EA		1	5		1					1	1		2	1	2	
44 45 46	COT 315 1 INCH W	ATER SERVICE LINE CONNECTION (LONG) ATER SERVICE LINE EXTENSION ATER METER CAN, LID, & RIM	15, 16, 17 15, 16, 17	1 1	1 1	LF EA	1															
47 48	COT 315 2 INCH W.	ATER SERVICE CONNECTION (SHORT) ATER SERVICE CONNECTION (LONG)	15, 16, 17 15, 16, 17	1 1	1 1	EA EA													1			
49 50	COT 317 6 INCH GA		15, 16, 17 8	1 19	1 11	LF EA		1	1	1		1	1	1	1	1		1	1		1	
1 51 (52) 53	COT 322 CONDUIT,	UCTILE IRON TO PVC ADAPTOR (RI) , BY BORE (18-INCH STEEL) ORE (UNCASED)	2, 8, 12	40 212 1813	36 174 1535	LF LF		80	117	206	138		55	105	26	220	117		174 105	150	111	105
54	COT 307 6 INCH DI	P, CL51 POLYETHYLENE WRAPPED	1, 2, 3, 9, 11, 27, 28	OPTIC 5585	ON 2 - DIP 3372	LF		265	330	114	122		194	302	337	209	297		169	296	333	337
1 (56)	COT 307 6 INCH DI	P, CL51 POLYETHYLENE WRAPPED (RJ) P, CL51 POLYETHYLENE WRAPPED (RJ) (NITRILE GASKET) UCTILE IRON 11-1/4 DEGREE BEND (RJ)	1, 2, 3, 8, 9, 11, 27, 28 1, 2, 3, 8, 9, 11, 27, 28 2, 8	4173 212 7	3179 174 5	LF LF EA		240	180	386	393	40	316	213	173	291	203	53	162 174	209	167	153
1 (58)	COT 312 6 INCH DU	UCTILE IRON 22-1/2 DEGREE BEND (RJ) UCTILE IRON 45 DEGREE BEND (RJ)	2,8	6 44	4 26	EA EA		6		2	8		4				2		2		%=====================================	2
60 61	COT 312 12 INCH X	UCTILE IRON 90 DEGREE BEND (RJ) (6 INCH DUCTILE IRON TEE (RJ)	2, 8 2, 8	1 2	2	EA EA						1						1	1			
62 63 64	COT 312 12 INCH D	6 INCH DUCTILE IRON TEE (RJ) DUCTILE IRON SLEEVE (RJ) UCTILE IRON SLEEVE (RJ)	2, 8 2, 8 2, 8	19 2	15 2 1	EA EA	2	1	1	1	1	1	2	1	3	1		1	1	1	1	
65 66	COT 315 3/4 INCH COT 315 3/4 INCH	WATER SERVICE CONNECTION (SHORT) WATER SERVICE CONNECTION (LONG)	15, 16, 17 15, 16, 17	56 49	51 39	EA EA		3	6	6	4 5	1	4	4 6	3 8	5 1	3 2	1	5	4	2	
67 68	COT 315 3/4 INCH	WATER SERVICE LINE EXTENSION WATER METER CAN, LID, & RIM 'ATER SERVICE CONNECTION (SHORT)	15, 16, 17 15, 16, 17	1 19	1 14	LF EA		1	5		1					1	1		2	1	2	
69 70 71	COT 315 1 INCH W	ATER SERVICE CONNECTION (SHORT) ATER SERVICE CONNECTION (LONG) ATER SERVICE LINE EXTENSION	15, 16, 17 15, 16, 17 15, 16, 17	1 1	1 1	EA EA LF	1															
72 73	COT 315 1 INCH W COT 315 2 INCH W	ATER METER CAN, LID, & RIM (ATER SERVICE CONNECTION (SHORT)	15, 16, 17	1 1	1	EA EA	1												1			
74 75	COT 315 2 INCH W	ATER SERVICE CONNECTION (LONG) (ATER SERVICE LINE EXTENSION ATER AND (A) (A)	15, 16, 17 15, 16, 17	1 1 19	1 1 11	LF EA	1	1	1	1		1	1	1	1	1			1		1	
1 (77) 78	COT 322 CONDUIT	, BY BORE (18-INCH STEEL)	8	212 1813	174 1535	LF		80		206	138		55	105	26	220	117	1	174 105	150	111	105
1 (79)		IP, CL51 POLYETHYLENE WRAPPED (RJ) (NITRILE GASKET)	1, 2, 3, 8, 9, 10, 19, 27, 28	OPTIO 212 9758	N 3 - HDPE 174			FOE	F10	F00	F15	40	F10	F15	F10	500	F00	120	174		500	400
80 81 82	COT 312A8 INCH X	DPE AWWA C906 PE4710 DR-11 (DIPS) 8 INCH HDPE TEE (DIPS) (8 INCH HDPE TEE (DIPS)	20	19 2	6551 15 2	EA EA		505	510	1	515	40	510	515 1	510 3	500	500	120	331	505 1	500 1	490
/1\(\(\)83\)84	COT 312A8 INCH HI COT 312A8 INCH HI	DPE 22.5 DEGREE BEND (DIPS) DPE 45 DEGREE BEND (DIPS)	20	6 44	4 26	EA EA		6		2	8	-	4		Kana ara		2		2			2
1 (86)	COT 312A8 INCH HI	DPE 90 DEGREE BEND (DIPS) UCTILE IRON TO HDPE ADAPTOR (RJ)	2, 8, 12	1 5 4	1 3 4	EA EA		1				2							1 2			
87 88 89	COT 312 12 INCH [DUCTILE IRON TO HDPE ADAPTOR (RI) DUCTILE IRON SLEEVE (RI) UCTILE IRON SLEEVE (RI)	2, 8, 12 2, 8 2, 8	2 5	2 3	EA EA		1				1						1	2			
90	COT 315 3/4 INCH	WATER SERVICE CONNECTION (SHORT) WATER SERVICE CONNECTION (LONG)	15, 16, 17 15, 16, 17	56 49	51 39	EA EA		3	6 7	6	4 5	1	1	4 6	3 8	5 1	3 2	1	5	4	2	
<u>ω</u> 91		WATER SERVICE LINE EXTENSION	15, 16, 17	1 19	1 14	LF EA		1	5		1					1	1		2	1	2	
% 91 92 93	COT 315 3/4 INCH COT 315 3/4 INCH	WATER METER CAN, LID, & RIM	15 16 17				1	1	1				1									1
91 92 93 94 95	COT 315 3/4 INCH COT 315 3/4 INCH COT 315 1 INCH W COT 315 1 INCH W	WATER METER CAN, LID, & RIM //ATER SERVICE CONNECTION (SHORT) /ATER SERVICE CONNECTION (LONG)	15, 16, 17 15, 16, 17 15, 16, 17	1 1 1	1 1	EA																
91 92 93 94 94 96 96 97 98	COT 315 3/4 INCH COT 315 3/4 INCH COT 315 1 INCH W COT 315 1 INCH W COT 315 1 INCH W COT 315 1 INCH W COT 315 2 INCH W	WATER METER CAN, LID, & RIM /ATER SERVICE CONNECTION (SHORT) /ATER SERVICE CONNECTION (LONG) /ATER SERVICE LINE EXTENSION /ATER SERVICE LINE (EXTENSION /ATER METER CAN, LID, & RIM /ATER SERVICE CONNECTION (SHORT)	15, 16, 17 15, 16, 17 15, 16, 17	1 1 1 1 1	1 1 1 1	EA LF EA EA	1												1			
91 92 93 94 95 96 97 97 98 98 99	COT 315 3/4 INCH COT 315 3/4 INCH COT 315 1 INCH W COT 315 1 INCH W COT 315 1 INCH W COT 315 1 INCH W COT 315 2 INCH W COT 315 2 INCH W	WATER METER CAN, LID, & RIM /ATER SERVICE CONNECTION (SHORT) /ATER SERVICE CONNECTION (LONG) /ATER SERVICE LINE EXTENSION /ATER METER CAN, LID, & RIM /ATER SERVICE CONNECTION (SHORT) /ATER SERVICE CONNECTION (LONG) /ATER SERVICE LINE EXTENSION	15, 16, 17 15, 16, 17	1 1 1 1 1 1 1	1 1 1 1 1	EA LF EA EA EA	1 1 1 1					-	-									
91 92 93 94 95 96 97 98 99 100 101 101 101 101 101	COT 315 3/4 INCH COT 315 11/1 INCH W COT 315 1 INCH W COT 315 2 INCH W	WATER METER CAN, LID, & RIM //ATER SERVICE CONNECTION (SHORT) //ATER SERVICE CONNECTION (LONG) //ATER SERVICE LINE EXTENSION //ATER SERVICE LINE EXTENSION //ATER SERVICE CONNECTION (SHORT) //ATER SERVICE CONNECTION (LONG) //ATER SERVICE LINE EXTENSION ATE VALVE (RJ) /, BY BORE (20-INCH STEEL)	15, 16, 17 15, 16, 17 15, 16, 17 15, 16, 17	1 1 1 1 1	1 1 1 1	EA LF EA EA LF EA	1 1 1 1	1 80	1 117	1 206	138	1	1 55	1 105	1 26	1 220	117	1	1 174	150	1 111	105
91 92 93 94 95 96 97 97 98 98 99	COT 315 3/4 INCH COT 315 3/4 INCH COT 315 1 INCH W COT 315 2 INCH W COT 317 8 INCH G	WATER METER CAN, LID, & RIM //ATER SERVICE CONNECTION (SHORT) //ATER SERVICE CONNECTION (LONG) //ATER SERVICE LINE EXTENSION //ATER SERVICE LINE EXTENSION //ATER SERVICE CONNECTION (SHORT) //ATER SERVICE CONNECTION (LONG) //ATER SERVICE LINE EXTENSION ATE VALVE (RJ) /, BY BORE (20-INCH STEEL)	15, 16, 17 15, 16, 17 15, 16, 17 15, 16, 17	1 1 1 1 1 1 1 1 19 212 1813	1 1 1 1 1 1 1 1 174 1535 ATIVE 1 - RCI	EA LF EA EA LF EA LF LF LF	1 1 1	1 80	117		138	1	55	1 105	26			1	1 174	150	1 111	105

NOTES:
ITEMS LISTED OR SHOWN ON DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS
THAT ARE NOT INCLUDED AS A SEPARATE PAY ITEM QUANTITY SHALL BE CONSIDERED
INCIDENTAL AND THE COST SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.
THE PRICE BID FOR ALL WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT, LABOR,
INCIDENTALS, AND ALL OTHER REQUIRED ITEMS TO COMPLETE THE WORK AS SHOWN
ON PLANS AND SPECIFICATIONS.





TO#12

21-02

ADDENDUM NO. 3 WCH JULY 21, 2025 SUMMARY OF QUANTITIES

PROJECT NO. TMUA-W_21-02 TO#12

BERRYHILL WATER LINE REPLACEMENT

CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT

	IMATES PREPARE AND NICHOLS,	5100 E. SKELLY DRIVE SUITE 60: TULSA, OK 74135 (539) 444-8677					
PLAN SCALE:	DRAWN	TW	4/2025	APPROVED:			
N/A	DESIGNED	EA	4/2025	1			
	SURVEY	NP	11/2024	1			
PROFILE SCALE:	PROJ. MGR.			1			
HORIZONTAL	LEAD ENGR.		OUW	(a)			
N/A	FIELD MGR.			1 /			

FILE: GN-ALL-GN-NOTES.dwg ATLAS PAGE NO: 65 & 66

SHEET 2 OF 53 SHEETS

ATER

BERRYHILL

	ITEM OD	OT SPEC. NO.	DESCRIPTION BASE BID	SUMMARY OF QUANTI' PAY ITEM NOTE	TIES TOTAL QUANTITY	QUANTITY	UNIT	GENERAL	LIN	E 'D' SHT. 47		LINE 'E'			LINE 'F'	
	1 2 3	COT 301 RIGHT-	CT SIGN (CITY OF TULSA) OF-WAY CLEARING AND RESTORING, COMPLETE IN PLACE ATION AND BACKFILL, UNCLASSIFIED	4, 5, 6, 7, 22, 34 14	1 4040 5640	1 1474 2106	EA SY CY	1	250 340	52.5 80	160 230	226 355	85 165	250 315	250	200
	5	COT 303 MOBILI COT 315 PRIVAT	IZATION TE SERVICE CONNECTION BY LICENSED BONDED PLUMBER I AIR VALVE ASSEMBLY	13, 17	1 19	5	EA EA	1	1	80	230	333	2	1	335	286
	7 8 9	COT 317 3-WAY	' FIRE HYDRANT, IN PLACE H GATE VALVE (RI)	8	1 12 2	0 4 0	EA EA		1	1	1		1			
Λ	10 11 (12)	COT 325 SODDIN	NG AND SEEDING FWASH DOWN	21 23	21 7420 9880	8 3042 3225	SY LF		1 515 500	1 85 105	302 500	485 500	210 220	565 500	575 500	305 400
71	13	COT 333 EXISTIN	IC CONTROL (PER MUTCD) NG WATERLINE ABANDONMENT RUCTION AS-BUILT	TC 1, 2, 3 5, 9 24, 25, 27	300 8988 1	300 2173 1	LF EA	300	460	100		310		308	495	500
	15 16 17	COT 606 SHEET .	ACTOR QUALITY CONTROL ALUMINUM SIGNS SQUARE TUBE POST		1 154 18	1 14 2	SF LF	1			14					
	18 19 20	COT 606 1 3/4": COT 606 2" SQU SPECIAL OWNER		18	147 39 150000	10.5 0 150000	LF LF ALLOW	150000			10.5					
	21 22 22 23 64	O SPECIAL SWPPP	VAL DRIVEWAY CULVERT P DOCUMENTATION AND MANAGEMENT RUCTION STAKING	32, 33, 34, 35	475 1 1	150 1	LF LSUM EA	1	30	15		105				
\bigwedge_1	24 (25) (26)	SPECIAL PAVEM	REMOVE AND REPLACEMENT OUTSIDE ROW HENT REMOVAL AND REPLACEMENT FOR WATER MAIN INSTALLATIONS (ASPHALT) HENT REMOVAL AND REPLACEMENT FOR WATER MAIN INSTALLATIONS(CONCRETE)	31, 37 30, 37	100 1040 80	100 205 0	LF SY SY		25	100 10	65	50	55			
	27 (28)	COT 307 6 INCH	I DIP, CL51 POLYETHYLENE WRAPPED (RJ) I DIP, CL51 POLYETHYLENE WRAPPED (RJ) (NITRILE GASKET)	OPTION 1 - PVC 1, 2, 3, 8, 9, 11, 27, 28 1, 2, 3, 8, 9, 11, 27, 28	1813 212	278	LF LF				180	48	50			38
^	30 31	COT 309 6 INCH COT 309 6 INCH	I PVC AWWA C900 CLASS 200 DR-14 I PVC AWWA C900 CLASS 200 DR-14 (RJ) I DUCTILE IRON 11-174 DEGREE BEND (RJ)	1, 2, 3, 9, 10, 27, 29 1, 2, 3, 8, 9, 10, 27, 29 2, 8	5585 2360 7	2213 716 2	LF LF EA		434 71 2	48 62	210 115	377 75	83 92	434 66	340 160	287 75
1	(32) 33 34	COT 312 6 INCH	DUCTILE IRON 22-1/2 DEGREE BEND (RJ) DUCTILE IRON 45 DEGREE BEND (RJ) DUCTILE IRON 45 DEGREE BEND (RJ) DUCTILE IRON 90 DEGREE BEND (RJ)	2, 8 2, 8 2, 8 2, 8	6 44	2 18	EA EA				6	4	2	2	4	
	35 36 37	COT 312 12 INCH	I NO THE HOW SO DEGREE BEND (N) I X 6 INCH DUCTILE IRON TEE (RI) I X 6 INCH DUCTILE IRON TEE (RI) H DUCTILE IRON SLEEVE (RI)	2, 8 2, 8	1 2 19	0 0 4	EA EA		1	1	1		1			
	38 39 40	COT 312 6 INCH COT 315 3/4 INC	I DUCTILE IRON SLEEVE (RI) CH WATER SERVICE CONNECTION (SHORT)	2, 8 2, 8 15, 16, 17	2 1 56	0 0 5	EA EA		2			2	1			
6	41 42	COT 315 3/4 INC	CH WATER SERVICE CONNECTION (LONG) CH WATER SERVICE LINE EXTENSION CH WATER METER CAN, LID, & RIM	15, 16, 17 15, 16, 17	49 1 19	10 1 5	LF EA	1	5			1	2	1	1	
	43 44 45	COT 315 1 INCH	I WATER SERVICE LINE CONNECTION (SHORT) I WATER SERVICE LINE CONNECTION (LONG) I WATER SERVICE LINE EXTENSION	15, 16, 17 15, 16, 17 15, 16, 17	1 1 1	1 1 1	EA EA LF	1 1 1								
	46 47 48	COT 315 2 INCH COT 315 2 INCH	I WATER METER CAN, LID, & RIM I WATER SERVICE CONNECTION (SHORT) I WATER SERVICE CONNECTION (LONG)	15, 16, 17 15, 16, 17	1 1 1	0	EA EA	1								
\wedge	50 51	COT 317 6 INCH	I WATER SERVICE LINE EXTENSION I GATE VALVE (RJ) I DUCTILE IRON TO PVC ADAPTOR (RJ)	15, 16, 17 8 2, 8, 12	1 19 40	1 8 4	EA EA	1	1	1	1 2	2	1 2	1	1	
/1\	53		UIT, BY BORE (18-INCH STEEL) I BORE (UNCASED)	OPTION 2 - DIP	212 1813	38 278	LF LF				180	48	50			38
<u></u>	54 55 (56)	COT 307 6 INCH	I DIP, CL51 POLYETHYLENE WRAPPEO I DIP, CL51 POLYETHYLENE WRAPPEO (R)) I DIP, CL51 POLYETHYLENE WRAPPEO (R) (NITRILE GASKET)	1, 2, 3, 9, 11, 27, 28 1, 2, 3, 8, 9, 11, 27, 28 1, 2, 3, 8, 9, 11, 27, 28		2213 994 38	LF LF		434 71	48 62	210 295	377 123	83 142	434 66	340 160	287 75 38
1	57 (58) 59	COT 312 6 INCH	I DUCTILE IRON 11-1/4 DEGREE BEND (RJ) I DUCTILE IRON 22-1/2 DEGREE BEND (RJ) I DUCTILE IRON 45 DEGREE BEND (RJ)	2, 8 2, 8 2, 8	7 6 44	2 2 18	EA EA		2		2	4	2	2	4	
	60 61 62	COT 312 6 INCH COT 312 12 INCI	I DUCTILE IRON 90 DEGREE BEND (RJ) H X 6 INCH DUCTILE IRON TEE (RJ) I X 6 INCH DUCTILE IRON TEE (RJ)	2, 8 2, 8 2, 8 2, 8	1 2 19	0 0	EA EA		1	1	1		1		-	
	63 64 65	COT 312 12 INCI COT 312 6 INCH	H DUCTILE IRON SLEEVE (RJ) I DUCTILE IRON SLEEVE (RJ) CH WATER SERVICE CONNECTION (SHORT)	2, 8 2, 8 15, 16, 17	2	0	EA EA		2	_			1			
	66 67 68	COT 315 3/4 INC	CH WATER SERVICE CONNECTION (LONG) CH WATER SERVICE LINE EXTENSION CH WATER METER CAN, LID, & RIM	15, 16, 17 15, 16, 17 15, 16, 17	49 1	10 1	EA LF	1	5			1	2	1	1	
	69 70	COT 315 1 INCH COT 315 1 INCH	I WATER SERVICE CONNECTION (SHORT) I WATER SERVICE CONNECTION (LONG) I WATER SERVICE LINE EXTENSION	15, 16, 17 15, 16, 17	19 1 1	1	EA EA	1	1				2	1	1	
	71 72 73	COT 315 1 INCH COT 315 2 INCH	I WATER METER CAN, LID, & RIM I WATER SERVICE CONNECTION (SHORT)	15, 16, 17 15, 16, 17	1 1	1 0	EA EA	1								
\wedge	74 75 76	COT 315 2 INCH COT 317 6 INCH	I WATER SERVICE CONNECTION (LONG) I WATER SERVICE LINE EXTENSION I GATE VALVE (RJ)	15, 16, 17 15, 16, 17 8	1 1 19	1 1 8	LF EA	1	1	1	1	2	1	1	1	
\(\)	78	COT 328 6-INCH	UIT, BY BORE (18-INCH STEEL) H BORE (UNCASED)	OPTION 3 - HDPE	212 1813	38 278	LF				180	48	50			38
/1\	80 81	COT 309A 8 INCH COT 312A 8 INCH	I DIP, CL51 POLYETHYLENE WRAPPED (RJ) (NITRILE GASKET) I HDPE AWMA C306 PEATJO DR-11 (DIPS) I X 8 INCH HDPE TEE (DIPS)	1, 2, 3, 8, 9, 10, 19, 27, 28	19	38 3207 4	LF LF EA		505 1	110 1	505 1	500	225	500	500	38 362
1	82 (83) 84	COT 312A 8 INCH	H X 8 INCH HOPE TEE (DIPS) I HOPE 22.5 DEGREE BEND (DIPS) I HOPE 45 DEGREE BEND (DIPS)	20	6 44	0 2 18	EA EA				2 6	4	2	2	4	
1	85 (86) 87	COT 312 6 INCH COT 312 12 INC	H HOPE 90 DEGREE BEND (DIPS) IDUCTILE IRON TO HDPE ADAPTOR (RJ) IH DUCTILE IRON TO HDPE ADAPTOR (RJ)	2, 8, 12 2, 8, 12		0 2 0	EA EA									2
	88 89 90	COT 312 12 INC	H DUCTILE IRON SLEEVE (RJ) I DUCTILE IRON SLEEVE (RJ) CH WATER SERVICE CONNECTION (SHORT)	2, 8 2, 8 15, 16, 17		0 2 5	EA EA		2			2	1			2
ES.dwg	91 92 93	COT 315 3/4 INC	CH WATER SERVICE CONNECTION (LONG) CH WATER SERVICE LINE EXTENSION CH WATER METER CAN, LID, & RIM	15, 16, 17 15, 16, 17	49 1 19	10 1 5	EA LF EA	1	5			1	2	1	1	
JUN-NOT	94 95 96	COT 315 1 INCH COT 315 1 INCH	WATER SERVICE CONNECTION (SHORT) WATER SERVICE CONNECTION (LONG) WATER SERVICE LINE EXTENSION	15, 16, 17 15, 16, 17 15, 16, 17	1 1 1 1	1 1 1	EA EA LF	1 1 1	_						1	
GN-ALL-(97 98 99	COT 315 1 INCH COT 315 2 INCH	I WATER SERVICE LINE EXTENSION I WATER METER CAN, LID, & RIM I WATER SERVICE CONNECTION (SHORT) I WATER SERVICE CONNECTION (LONG)	15, 16, 17 15, 16, 17 15, 16, 17	1 1	0	EA EA	1								
J\Sheets\0	100 101	COT 315 2 INCH COT 317 8 INCH	I WATER SERVICE LINE EXTENSION I GATE VALVE (RI)	15, 16, 17 15, 16, 17 8	1 1 19	1 1 8	LF EA	1	1	1	1	2	1	1	1	
N:\WTU\	103	COT 328 8-INCH	UIT, BY BORE (20-INCH STEEL) 1 BORE (UNCASED)	ALTERNATIVE 1 - RC		38 278	LF LF				180	48	50			38
ename: I	104	јсот 613А 18" RE	INFORCED CONCRETE PIPE (RCP), COMPLETE IN PLACE NOT USED	D-8, D-12, D-13 ALTERNATIVE 2 - NOT L		150	LF -		30	15		105		 		-

NOTES:

ITEMS LISTED OR SHOWN ON DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS
THAT ARE NOT INCLUDED AS A SEPARATE PAY ITEM QUANTITY SHALL BE CONSIDERED
INCIDENTAL AND THE COST SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.
THE PRICE BID FOR ALL WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT, LABOR,
INCIDENTALS, AND ALL OTHER REQUIRED ITEMS TO COMPLETE THE WORK AS SHOWN
ON PLANS AND SPECIFICATIONS.





21-02 TO#12

REPLACEMENT PROJECT NO. TMUA-W

ATER

W

BERRYHILL

REVISION ADDENDUM NO. 3 WCH JULY 21, 2025 SUMMARY OF QUANTITIES

PROJECT NO. TMUA-W_21-02 TO#12

BERRYHILL WATER LINE REPLACEMENT

CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT

	IMATES PREPARE AND NICHOLS			0 E. SKELLY DRIVE SUITE 602 .SA, OK 74135 (539) 444-8677					
PLAN SCALE:	DRAWN	TW	4/2025	APPROVED:					
N/A	DESIGNED	EA	4/2025	1					
33325	SURVEY	NP	11/2024	1					
PROFILE SCALE:	PROJ. MGR.			1					
HORIZONTAL	LEAD ENGR.	Cris	2/25						
N/A	FIELD MGR.								
				The Is					

VERTICAL N/A FILE: GN-ALL-GN-NOTES.dwg

ATLAS PAGE NO: 65 & 66

SHEET 3 OF 53 SHEETS

GENERAL CONSTRUCTION AND PAY NOTES (VERSION 1/30/2025)

WATER PAY ITEM NOTES (TYPICAL):

- 1. TESTING AND CHLORINATION OF WATER MAINS SHALL BE PERFORMED BY THE CITY OF TULSA. TESTING, CHLORINATION, AND FLUSHING SHALL BE DONE IN ACCORDANCE WITH
 - CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY PLUGS WITH ADEQUATE BLOCKING OR RESTRAINTS, PLUS CORPORATION STOPS, AS DIRECTED BY CITY TESTING PERSONNEL, THEN, ONCE TESTING, CHLORINATION AND FLUSHING BY CITY PERSONNEL IS COMPLETED, REMOVE TEMPORARY BLOCKING AND TIE INTO EXISTING SYSTEM,
 - TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAIN SHALL BE PERFORMED BY CITY PERSONNEL ON MAINS WHICH ARE PHYSICALLY DISCONNECTED FROM THE EXISTING WATER SYSTEM. TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAINS SHALL NOT BE PERFORMED AGAINST VALVES WHICH ARE PHYSICALLY
 - ALL COSTS FOR TEMPORARY PLUGS, BLOCKING, RESTRAINING, CORPORATION STOPS, TUBING, THREADED CONNECTIONS, BLEACH AND OTHER INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.
- 2. BURIED BOLTS, HARNESS LUGS, AND COUPLINGS SHALL BE GIVEN TWO COATS OF KOPPER'S BITUMASTIC 300-M (DRY MIL THICKNESS OF 16 MILS) OR EQUAL. COST TO BE INCLUDED
- CONTRACTOR TO EXCAVATE ALL UTILITY CROSSINGS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ON THE PROPOSED WATER MAIN TO AVOID UTILITY CONFLICTS. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. THE COST FOR EXCAVATING UTILITY CROSSINGS SHALL BE INCLUDED IN UNIT PRICE BID FOR PIPE.
- 4. CONTRACTOR SHALL INSURE ALL POLES WHICH ARE AFFECTED BY TRENCHING CONDITIONS ARE BRACED BY OWNERS. PAYMENT SHALL BE INCLUDED IN "RIGHT-OF-WAY CLEARING AND RESTORING". NO ADDITIONAL PAYMENT SHALL BE MADE.
- ALL HYDRANTS, VALVES AND OTHER FITTINGS FROM ABANDONED WATER MAINS SHALL BE SALVAGED AND DELIVERED TO THE SOUTH YARD, 2317 S JACKSON AVE. PAYMENT TO BE MADE UNDER WATER LINE ABANDONMENT. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 6. CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS, ROOF DRAINS, AND FENCING DAMAGED IN THE ZONE OF CONSTRUCTION DURING THE COURSE OF CONSTRUCTION TO SATISFACTION OF THE PROPERTY OWNER. PAYMENT SHALL BE INCLUDED IN RIGHT-OF-WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 7. COST OF ANY TEMPORARY LIVESTOCK FENCING AND POLES SHALL BE INCLUDED IN COST OF RIGHT OF WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 8. ALL COSTS FOR COMPONENTS NECESSARY TO RESTRAIN JOINTS FOR PIPE AND FITTINGS DESIGNATED RESTRAINED JOINT ("RJ") SHALL BE INCLUDED IN UNIT PRICE BID FOR PIPE OR
- DIJICTIJE IRON PIPE RESTRAINED JOINT SYSTEMS: US PIPE TREIEX, GRIEFIN SNAPLOK, MCWANE THRUSTLOCK, AMERICAN FLEXRING, ERAA MEGALUG, STAR STARGRIE SMITH-BLAR CAMLOCK, CLOW TUFGERP OR EQUAL SHALL BE USED ON THIS PROJECT. SHOULD RIPPE BE SPECIFIED THROUGH UNCASED BORES, ONLY USPIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, OR AMERICAN FLEXRING IS TO BE USED. LOCKING GASKETS NOT PERMITTED;
- POLYVINYL CHLORIDE (PVC) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT, LOCKING GASKETS NOT PERMITTED: SHOULD RUPIPE BE SPECIFIED ON BORE CASING IS REQUIRED.
- HIGH DENSITY POLYETHYLENE (HDPE) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. NO ADDITIONAL PAYMENT
- ALL WATER MAINS TO BE ABANDONED SHALL BE FILLED TO 100% OF THE ABANDONED PIPE VOLUME. FILL MATERIAL SHALL BE EITHER CELLULAR CONCRETE OR FLOWABLE FILL AS APPROVED BY THE ENGINEER. COST OF CONCRETE PLUGGING AND FILLING TO BE INCLUDED UNDER WATER LINE ABANDONMENT, NO ADDITIONAL PAYMENT SHALL BE MADE.
- TRACER WIRE AND DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED ABOVE ALL PVC AND HDPE PIPE. TERMINATING ONLY ONTO HYDRANTS JUST ABOVE GROUND LEVEL AS PER CONST SPEC 310. COST OF TRACER WIRE AND DETECTABLE MYNAR TAPE SHALL BE INCLUDED IN UNIT PRICE BID FOR PVC AND HDPE PIPE. CONST SPEC 310.1 NOW ALLOWS #12 COPPER-CLAD STEEL (CCS) WIRE, 21% CONDUCTIVITY, IN LIEU OF #8 COPPER WIRE AS TRACER WIRE ATOP PVC AND HDPE PIPE.
- 11. DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED OVER DUCTILE IRON PIPE AS PER CONST SPEC 307.3 AND 307.4. COST WILL BE INCLUDED IN COST OF DUCTILE IRON PIPE.
- 12. ALL LABOR, MATERIALS, AND EQUIPMENT TO CONNECT PROPOSED WATER MAINS TO EXISTING WATER MAINS ARE INCLUDED IN THE COST OF PIPE. CONTRACTOR TO EXCAVATE ALL EXISTING WATER MAINS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ACCORDINGLY. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. THE COST FOR EXCAVATING EXISTING WATER MAINS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR
- 13. AT THE DIRECTION OF THE ENGINEER, CONTRACTOR SHALL FURNISH A "LICENSED AND BONDED PLUMBER", WHICH SHALL INCLUDE ALL COSTS OF LABOR, TOOLS, PERMIT FEES, AND EQUIPMENT TO REPOUTE THE EXISTING CUSTOMER SERVICE ON CUSTOMER PROPERTY TO THE PROPOSED CUSTOMER METER CAN. COST SHALL NOT EXCEED AN ALLOWANCE OF \$1000 PER OCCURRENCE. MATERIALS COST SHALL BE INCLUDED UNDER THE UNIT PRICE FOR WATER SERVICE CONNECTION AND/OR WATER SERVICE LINE EXTENSION. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 14. CONTRACTOR IS REMINDED TO BACKFILL ALL TRENCHES EXCAVATED ACROSS ANY EXISTING OR PROPOSED DRIVING OR PARKING SURFACE WITH 1½ -IN TYPE A AGGREGATE BASE, PLACED IN 8-INCH MAXIMUM LIFTS AND COMPACTED TO 98% MODIFIED PROCTOR DENSITY, COST TO BE INCLUDED IN THE UNIT PRICE FOR EXCAVATION AND BACKFILL, NO ITIONAL PAYMENT SHALL BE MADE. ALL PATCHES PER ACPA (AMERICAN CONCRETE STANDARDS ASSOCIATION) STANDARDS.
- WATER SERVICE CONNECTIONS SHALL INCLUDE COST OF MATERIAL, LABOR AND EQUIPMENT TO REMOVE AND INSTALL SADDLES, SERVICE CLAMPS, CORPORATION STOPS, BENDS, 3-PART UNIONS, COUPLINGS, SETTERS AND ANY OTHER INCIDENTALS REQUIRED FOR A COMPLETE WATER SERVICE CONNECTION WITH THE EXCEPTION OF METER CANS, RIMS AND LIDS NO ADDITIONAL PAYMENT SHALL BE MADE METER CANS, LIDS AND RIMS SHALL BE PAID AS A SEPARATE BID ITEM.
- SHORT SERVICE SHALL BE ANY SERVICE LINE THAT IS 25-FEET OR LESS IN LENGTH. SHORT SERVICES DO NOT INCLUDE PAVEMENT REPLACEMENT.
- LONG SERVICE SHALL BE ANY SERVICE LINE THAT IS GREATER THAN 25-FEET UP TO 80-FEET IN LENGTH. LONG SERVICES INCLUDE PAVEMENT REPLACEMENT AND/OR COST TO
- SERVICE LINES EXCEEDING THE ABOVE PARAMETERS WILL BE COMPENSATED FOR LINEAR FOOTAGE ABOVE AND BEYOND. COMPENSATION SHALL BE PAID AS "SERVICE LINES,
- 16. SERVICE LINES ON NON-ARTERIALS SHALL BE EITHER COPPER TUBING (TYPE K SOFT ANNEALED CONFORMING TO ASTM B 88) OR PEX TUBING (VIEGA PUREFLOW PEX BLUE 5306 OR UPONOR AQUA PEX 5206 BLUE CONFORMING TO ASTM F876/F877/F2023). PEX TUBING IS NOT PERMITTED WITHIN ARTERIAL RIGHT OF WAY. WHEN CONTRACTOR ELECTS TO USE
- %-INCH WATER SERVICE CONNECTION SHALL USE 1-INCH PEX TUBING MINIMUM
- 1-INCH WATER SERVICE CONNECTION SHALL USE 11/2-INCH PEX TUBING MINIMUM
- 17. CONTRACTOR'S PLUMBER SHALL PROVIDE AN INFORMATIONAL BROCHURE TO THE PROPERTY OWNERS OUTLINING THE STEPS REQUIRED TO THOROUGHLY FLUSH THEIR WATERLINES AFTER CONNECTION TO THE NEW WATER MAIN. ALL COSTS TO PRODUCE AND DISTRIBUTE THE BROCHURE SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM.
- 18. THE "OWNER ALLOWANCE" CAN BE USED FOR VARIOUS WORK AND MISCELLANEOUS ITEMS NOT IDENTIFIED IN THE CONTRACT DOCUMENTS WITH THE FOLLOWING PROVISIONS:
 - THE ALLOWANCE SHALL BE USED FOR THE COST OF MATERIALS, LABOR, INSTALLATION, OVERHEAD, AND PROFIT FOR ADDITIONAL WORK AND MISCELLANEOUS ITEMS THAT ARE NOT IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND PLANS, AND NOT INCLUDED IN THE BID ITEMS OF THE CONTRACT. EXAMPLES INCLUDE, BUT
 - I. WATER SERVICE LINES OF UNKNOWN OR UNEXPECTED SIZE.
 - THE ALLOWANCE SHALL BE USED ONLY AT THE DISCRETION OF THE CITY, ANY ALLOWANCE BALANCE REMAINING AT THE COMPLETION OF THE PROJECT WILL BE CREDITED BACK TO THE CITY ON THE FINAL APPLICATION FOR PAYMENT SUBMITTED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL PROVIDE, TO THE CITY, A WRITTEN REQUEST FOR THE USE OF ANY ALLOWANCE, WITH A SCHEDULE OF VALUES, AND ALL ASSOCIATED BACKUP

INFORMATION, INCLUDING ANY TIME EXTENSIONS REQUIRED TO PERFORM THE WORK.

- THE CONTRACTOR SHALL PROCEED WITH THE WORK INCLUDED IN THE ALLOWANCE ONLY AFTER RECEIVING A WRITTEN ORDER FROM THE ENGINEER AND CITY AUTHORIZING SUCH WORK. PROCEEDING WITH WORK IN THE ALLOWANCE WITHOUT A WRITTEN ORDER FROM THE CITY WILL BE AT THE CONTRACTOR'S EXPENSE.
- 19. WHERE PLANS IDENTIFY A 22.5-DEG OR 11.25-DEG VERTICAL OR HORIZONTAL BEND, HDPE WILL BE DEFLECTED PER MANUFACTURER'S MINIMUM ALLOWABLE BEND RADIUS
- 20. WHERE PLANS IDENTIFY A CROSS, HDPE WILL USE TWO (2) TEES. NO ADDITIONAL PAYMENT SHALL BE MADE
- 21. TOP OF VALVE BOX SHALL BE FLUSH WITH FINISHED GRADE
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION. LIMITS OF DISTURBANCE SHALL NOT EXCEED 9-FEET CENTERED ON THE WATERLINE. ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL BE RESTORED AT THE CONTRACTORS EXPENSE. STREETS, DRIVEWAYS AND ASSOCIATED ITEMS SHALL BE PAID FOR UNDER OTHER ITEMS OF WORK.
- 23. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION. THE CONTRACTOR SHALL REPLACE THE SOD TO MATCH IN-KIND AND QUALITY. LIMITS OF DISTURBANCE SHALL NOT EXCEED 9-FEET CENTERED ON THE WATERLINE. ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL BE RESTORED AT THE CONTRACTORS EXPENSE. THIS PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION. NETTING SHALL BE
- 24. SPOT ELEVATIONS ON THE MAIN WATER LINE RELATIVE TO FINISHED GRADE SHALL BE PROVIDED AT EACH 100-FT INTERVAL. COMPLETE WITH STATION AND OFFSET, IN ADDITION. ALL VALVES, FITTINGS, FIRE HYDRANTS (TOP OF NUT) AND OTHER MAJOR APPURTENANT ITEMS SHALL BE SHOWN WITH THE PROPER DESCRIPTION, STATION, OFFSET (NORTHING
- 25. SPOT ELEVATIONS ON WATER METER CANS, VAULTS, SHALL BE SHOWN WITH THE PROPER DESCRIPTION (METER TYPE, METER SIZE, METER NUMBER, SERVICE MATERIAL, SERVICE SIZE), STATION, OFFSET (MORTHING, EASTING) AND ELEVATION PER PLAN SURVEY CONTROL DATUM. UPON DISCOVERY OF A LEAD OR GALVANIZED SERVICE LINE, NOTIFICATION SHALL BE MADE TO WATER DISTRIBUTION AND WORK SHALL CEASE UNTIL RELEASED AT WHICH TIME ANY AND ALL SERVICE LINES LOCATED THAT ARE LEAD OR GALVANIZED ARE TO
- 26. WORK UNDER THIS ITEM SHALL INCLUDE FURNISHING AND INSTALLING HDPE WALL ANCHORS AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE ENGINEER. THE UNIT PRICE SHALL INCLUDE THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EXCAVATION, BACKFILLING, OR CONCRETE BLOCKING.
- 27. PRESSURE TESTING AND CHLORINATION OF WATER MAINS SHALL NOT BE PERFORMED UNTIL THE CITY INSPECTOR HAS RECEIVED THE REQUIRED CONSTRUCTION AS-BUILT
- 28. MARKER BALLS SHALL BE INSTALLED ABOVE ALL FITTINGS, BLIND FLANGES, SERVICE TAPS AND EVERY 100 FEET. IF THE DISTANCE BETWEEN FITTINGS IS GREATER THAN 100 FEET THE COST OF MARKER BALLS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE. MARKERS SHALL BE VIVAX WATER MARKER BALLS OR EQUAL THAT WORK WITH THE VIVAX VLOC3 -PRO RECEIVER AND LOC3-10TX TRANSMITTER.
- 29. COST INCLUDES EBAA MEGASTOPS OR EQUAL, INSTALLED ON ALL PVC JOINTS THROUGH BORES TO PREVENT OVERBELLING
- 30. AGG BASE AND SUBGRADE, PER CITY STANDARD SPECIFICATIONS AND STANDARD DETAILS 701 702 AND 713 SHALL BE PAID UNDER EXCAVATION AND BACKFILL.
- 31 AGG BASE AND SUBGRADE, PER CITY STANDARD SPECIFICATIONS AND STANDARD DETAILS 703 704 AND 713 SHALL BE PAID LINDER EXCAVATION AND BACKEILL
- 32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE CONSTRUCTION SITE. STORM WATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED. ALL COST ASSOCIATED WITH STORM WATER MANAGEMENT, AS WELL AS REMOVAL OF ALL SILT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, STORM SEWER PIPES AND APPURTENANCES WITHIN THE PROJECT LIMITS AT END OF PROJECT, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.
- 33 FROSION PROTECTION SHALL BE PLACED AS FOLLOWS:
- A. AROUND INLETS TO PREVENT INFOW OF ERODED MATERIAL INTO STORM SEWER SYSTEM.
- . IN LOCATIONS THROUGHOUT PROJECT SITE, AS DETERMINED BY THE ENGINEER, TO PREVENT WASH OF ERODED MATERIAL ONTO ADJACENT PROPERTY
- C. FOR ENTIRE DURATION OF PROJECT, WITH MAINTENANCE AND REPLACEMENTS, AS DIRECTED BY THE ENGINEER
- D. WITH PERIODIC REMOVAL OF SEDIMENT IN ACORDANCE WITH STORMWATER MANAGEMENT PLAN. ALL COSTS FOR ITEMS A-D ABOVE SHALL BE INCLUDED IN UNIT PRICE BID FOR
- 34. PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMANT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION
- 36. MAILBOXES SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH USPS REGULATIONS. CONTINUOUS MAIL SERVICE SHALL BE MAINTAINED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE THE USE OF TEMPORARY MAILBOXES USED DURING CONSTRUCTION WITH THE USPS.
- 37. THIS PAY ITEM SUPERCEDES CITY OF TULSA STANDARD SPECIFICATION SECTION 329.6 WITH RESPECT TO SAW CUTTING AND DOWELS, AND INCLUDES THE FOLLOWING: A. SAW CUTTING
- C. DISPOSAL OF BROKEN PAVEMENT
- E. ASSOCIATED EXCAVATION
- F. PREPARATION OF SUBGRADE G. FORMS OR REINFORCING
- H. REMOVAL OR REPLACEMENT OF GRAVEL
- I. ADDITIONAL SAW CUTTING OR REPLACEMENT OF PAVEMENT
- DAMAGED BY THE CONTRACTOR
- J. JOINT SEALER, TACK COATS, OR EDGE SEALING

WATER CONSTRUCTION NOTES:

- 34. THE CITY OF TULSA FIELD ENGINEERING DEPARTMENT SHALL INSPECT ALL TRENCHING, BEDDING, PIPE INSTALLATION, BACKFILL AND COMPACTION.
 - 35. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT STANDARD SPECIFICATIONS AND STANDARD DETAILS OF THE CITY OF TULSA PUBLIC WORKS
 - 36. EXISTING SERVICE CONNECTIONS ARE TO BE KEPT IN SERVICE UNTIL CONNECTIONS TO NEW MAIN ARE MADE. ALL SERVICE LINE RECONNECTIONS SHALL BE MADE BY THE CONTRACTOR. SERVICE RECONNECTIONS SHALL BE INSTALLED AS PER CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS.
 - 37. MINIMUM COVER OVER WATER LINES SHALL BE AS NOTED ON PLANS.
 - 38. CONTRACTOR SHALL REPLACE EXISTING GRASS WITH SEED/SOD OF THE SAME TYPE AND VARIETY OR AS NOTED ON PLANS
 - 39. CONTRACTOR SHALL BORE EXISTING TREES UNDER DRIP LINE, UNLESS DIRECTED OTHERWISE BY ENGINEER
 - 40. CONTRACTOR SHALL BORE EXISTING DRIVEWAYS, UNLESS DIRECTED OTHERWISE BY ENGINEER
 - 41. WATER OPERATIONS SHALL OPERATE ALL VALVES ON TRANSMISSION MAINS (16" AND LARGER). CONTRACTOR SHALL OPERATE ALL VALVES ON DISTRIBUTION MAINS (SMALLER THAN 16") WITH THE COORDINATION OF FIELD ENGINEERING AND WATER OPERATIONS AND IN THE PRESENCE OF A FIELD ENGINEERING INSPECTOR
 - ATTEMPTS WILL BE MADE WITH ASSISTANCE FROM THE CONTRACTOR TO NOTIFY ALL AFFECTED CUSTOMERS 48-HOURS IN ADVANCE, PARTICULARLY IF COMMERCIAL OR INDUSTRIAL CUSTOMERS ARE INVOLVED. PRIOR TO SHUTDOWN, FIELD ENGINEERING WILL NOTIFY WATER OPERATIONS, AT 918-596-9488, GIVING AN ESTIMATED DOWNTIME. WATER OPERATIONS WILL NOTIFY THE FIRE DEPARTMENT OF ALL FIRE HYDRANTS OUT OF SERVICE AND WHEN THEY ARE BACK IN SERVICE, BY STREET ADDRESS OR
 - WHERE COMMERCIAL, INDUSTRIAL, OR CRITICAL CUSTOMERS ARE AFFECTED, AND FOR ALL LINES 16-INCH AND LARGER IN SIZE, FIELD ENGINEERING WILL REQUEST WATER OPERATIONS TO SHUT DOWN THE MAIN. THERE WILL BE A MINIMUM OF 48-HOUR NOTICE TO WATER OPERATIONS

- CONTRACTOR SHALL PROVIDE AT LEAST 48 HOUR NOTICE TO ALL RESIDENTS OR BUSINESSES AFFECTED BEFORE TURNING OFF ANY WATER. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING DOOR HANGERS
- 10. CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF THE OKLAHOMA ONE-CALL SYSTEM, INC, NOTICE OF ANY EXCAVATION NO LATER THAN 48 HOURS OR SOONER THAN 10 DAYS PRIOR TO COMMENCEMENT OF WORK (EXCLUDING SATURDAYS, SUNDAYS, LEGAL HOLIDAYS) PHONE
- 11. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH PROJECT AT ALL TIMES. OPEN CUT STREET CROSSINGS REQUIRE AN APPROVED TRAFFIC CONTROL PLAN WITH TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH CURRENT MUTCD REQUIREMENTS
- 12. ANY DAMAGE CAUSED BY THE CONTRACTOR TO ADJACENT TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE TRAFFIC ENGINEER.
- 13. PRIOR TO PAVEMENT SAWING AND EXCAVATION NEAR SIGNALIZED INTERSECTION, CONTRACTOR SHALL CONTACT ENGINEERING SERVICES AND TRAFFIC OPERATIONS (918-596-9766), FOR SITE SPECIFIC, UNDERGROUND TRAFFIC UTILITY LOCATES.
- CONSTRUCTION FOR ALL ENGINEERING SERVICES FACILITIES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF TITLE 252, DEPARTMENT OF ENVIRONMENTAL QUALITY, CHAPTER 626, PUBLIC WATER SUPPLY CONSTRUCTION STANDARDS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ)
- ALL EXCAVATED MATERIAL NOT REQUIRED IN OTHER AREAS OF THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY EXCESS MATERIAL IS TO BE DISPOSED OF WITHIN THE
- 16. ANY CHANGES FROM THE APPROVED PLANS SHALL BE SUBMITTED TO THE CITY OF TULSA FOR WRITTEN APPROVAL PRIOR TO INSTALLATION. DRAINAGE PAY ITEM NOTES:

D-8:QUICKSET FLOWABLE FILL SHALL BE USED TO BACKFILL AROUND REINFORCED CONCRETE PIPE, AS NEEDED. AT THE DIRECTION OF THE ENGINEER.

D-12:REINFORCED CONCRETE PIPE TO BE CLASS III. ALL REINFORCED CONCRETE PIPE TO BE SUPPLIED WITH AN IMNI-FLEX JOINT GASKET OR APPROVED EQUAL. MASTIC JOINT SEALANT SHALL NOT BE ALLOWED.

D-13:THIS PAY ITEM SHALL BE COMPLETE IN PLACE AND SHALL INCLUDE ALL PIPE, STANDARD BEDDING MATERIAL AND TRENCH EXCAVATION, JOINT GASKETS AND ALL OTHER INCIDENTALS. NO ADDITIONAL COST WILL BE MADE. PRIOR TO ACCEPTANCE, INTERIOR OF PIPE SHALL BE INSPECTED FOR DEFECTS USING SELF-PROPELLED MOBILE CLOSED-CIRCUIT CAMERA SYSTEM

D-15:WHERE QUICKSET FLOWABLE FILL IS USED TO BACKFILL AROUND CORRUGATED POLYPROPYLENE PIPE, THE CONTRACTOR SHALL UTILIZE AN ANCHORING SYSTEM APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS FOR LABOR, EQUIPMENT AND MATERIALS REQUIRED TO IMPLEMENT APPROVED ANCHORING SYSTEM INCLUDED IN PRICE BID FOR CORRUGATED POLYPROPYLENE PIPE

TRAFFIC CONTROL PAY ITEM NOTES:

TC-1. ALL TRAFFIC CONTROL SHALL BE IN EDITION. ONE LANE OF TRAFFIC MUST REMAIN OPEN IN BOTH DIRECTIONS AT ALL TIMES.

TC-2. CONTRACTOR TO DEVELOP AND SUBMIT A BEFORE COMMENCING ANY WORK. TCP SHOULD INCLUDE DIAGRAMS, SIGNAGE, AND DETOUR ROUTES. LIMIT TRAFFIC CONTROL TO BE ONE **BLOCK AT A TIME**

MORE THAN 50 FEET OF TRENCH IS OPEN AT A



d



SHEET 4 OF 53 SHEETS

REVISION WCH JULY 21, 2025 ADDENDUM NO. 3 PAY ITEM NOTES PROJECT NO. TMUA-W_21-02 TO#12 BERRYHILL WATER LINE

> CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT

REPLACEMENT

PLANS AND ESTIMATES PREPARED BY 5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677 FREESE AND NICHOLS, INC. TW LAN SCALE DRAWN 4/2025 APPROVED: DESIGNED EA 4/2025 NP 11/2024 ROFILE SCALE: PROJ. MGR. LEAD ENGR. FIELD MGR. N/A FILE: GN-ALL-GN-NOTES.dwg

ATLAS PAGE NO: 65 & 66

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD 31 SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS ADOPTED BY THE CITY OF TULSA AND THE CURRENT CITY OF TULSA PUBLIC WORKS DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.
- 2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION, THE THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETT, DESCRIPTION OF A STATE OF
- 3. PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA, THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES
- THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIEY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS; AT&T, PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP), OKLAHOMA NATURAL GAS (ONG), COX COMMUNICATIONS, MCIVERIZON, EASYTEL COMMUNICATIONS, WELLSCO VALLOR TELECOM, CITY OF TULSA-WATER AND SEWER, CITY OF TULSA-TRAFFIC OPERATIONS. SEE TITLE SHEET FOR CONTACT INFORMATION
- THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF
- THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY AFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE 38. THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED. THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE
- 8. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN
- THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TUI SA TO ESTABLISH INSTALL MAINTAIN AND OPERATE COMPLETE ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.
- 10. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT ADDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORL
- 11. THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-9404, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED 42. THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS AS LISTED IN THE SIGNAGE SCHEDULE FOR THE PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS. ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
- 13. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARATION AND DISTRIBUTION OF A WRITTEN NOTICE TO RESIDENTS 48 HOURS PRIOR TO BEGINNING PAVEMENT REMOVAL AND MILLING AND OVERLAY OPERATIONS.
- 14. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
- 15. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES
- 16. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL
- 17. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED. OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY MATERIAL IS STORED ON THE PROJECT SITE AND/OR DISPOSED OF WITHIN THE CITY LIMITS.
- 18. ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK, TREES OUTSIDE THE FILL SLOPES AND THE TOP OF CUT SLOPES SHALL NOT BE DISTURBED EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER
- 19. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION
- 20. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DISTURBED ITEMS SHALL BE REPAIRED TO MATCH EXISTING MATERIALS AND PATTERNING.
- 21. IF THE CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING STREETS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT 918-595-9508 OR AN INSPECTION BEFORE PROCEEDING WITH WORK
- 22. THE PROJECT SHALL BE CONSTRUCTED WITH CONTINUOUS FLOW OF MATERIAL SUPPLIED TO THE PROJECT SUCH THAT THE LAYDOWN MACHINE WILL REMAIN IN MOTION. ANY DELAY IN FORWARD PROGRESSION OF THE LAYDOWN MACHINE MAY REQUIRE A TRANSVERSE JOINT AS DIRECTED BY THE ENGINEER.
- 23. NO FLY ASH IS ALLOWED TO BE USED ON THIS PROJECT.
- 24. PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.
- 25. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.
- 26. MASONRY STRUCTURES SHALL NOT BE CONSTRUCTED WITHIN THE STREET RIGHT-OF-WAY
- 27. ALL CONCRETE CURB AND GUTTERS SHALL BE MONOLITHIC POURS, DOWELED-ON CURBS WILL NOT BE ALLOWED
- 28. NO LIFTING HOLES WILL BE ALLOWED ON ANY REINFORCED CONCRETE PIPES OR REINFORCED CONCRETE BOXES.
- 29. CURB RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS

- 30. REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE
- ALL SANITARY AND STORM SEWER MANHOLE CASTINGS AND LIDS THAT ARE LOCATED IN THE STREET AND ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW LIDS AND CASTINGS AND THE OLD ONES SHALL BE SALVAGED AND DELIVERED TO THE METAL RECYCLE BINS IN THE STOCKROOM AREA AT SEWER OPERATIONS AND MAINTENANCE, 9319 E. 42ND STREET NORTH, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY
- TULSA STANDARDS, CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES IN ORDER TO PROVIDE OPTIMUM VISIBILITY TO THE ONCOMING/APPROACHING MOTORIST. IF A PROPOSED LOCATION CONFLICTS WITH OTHER SIGNS, UTILITIES, OR OTHER ROADWAY FEATURES, THE ENGINEER SHALL BE NOTIFIED.
- , 33. POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE. EXACT LENGTHS SHALL BE DETERMINED BY A FIELD SURVEY CONDUCTED BY
- ALL ASPHALT STREETS THAT ARE TO BE RECONSTRUCTED SHALL BE LEFT WITH A DRIVABLE SURFACE AT ALL TIMES. THE CONTRACTOR WILL NOT BE ALLOWED TO MILL OFF ALL THE ASPHALT BEFORE EXCAVATION BEGINS
- 35. THE CONTRACTOR SHALL REPLACE ANY SECTION CORNERS OR OTHER PERMANENT RIGHT OF WAY MARKERS REMOVED OR DISTURBED AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT. REPLACEMENT OF SECTION CORNERS OR ANY OTHER MONUMENTS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR AUTHORIZED TO PERFORM WORK IN THE STATE OF OKLAHOMA
- 36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE. STORMWATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.
- 37. STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.
- PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT
- 40. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS, AND CROSSWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES, AND THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY, PUBLISHED ON JULY 26, 2011 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK, WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL SHALL BE
- 41. ALL TRENCH WIDTHS & BEDDING MATERIAL SHALL BE AS SHOWN ON COT STANDARD PIPE BEDDING DETAIL. STANDARD NO. 751. SPECIFIED TRENCH WIDTHS SHALL BE MAINTAINED FULL DEPTH FROM THE FLOWLINE TO THE GRADING TEMPLATE. THE CONTRACTOR SHALL KEEP THE
- RIOR TO COMMENCING WORK, LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC
- 43. CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN
- 44. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST SUBMIT A STORMWATER MANAGEMENT PLAN (SWMP) TO BE APPROVED BY THE CITY OF TULSA. THE CONTRACTOR IS ALSO RESPONSIBLE FOR EROSION CONTROL DURING THE DURATION OF CONSTRUCTION

	SURVEY SYMBOLS	EXISTING UTILITY LINE S	SYMBOLS
\boxplus	WATER METER		WATER LINE
Θ	WATER VALVE		SANITARY SEWER LINE
٥	FIRE HYDRANT		STORM SEWER
9	IRRIGATION CONTROL VALVE	EUG	
(9)	STORM SEWER MANHOLE	G	
0	SANITARY SEWER MANHOLE	UGT	
0	IRON PIN FOUND		
•	BENCH MARK		BUILDING SETBACK LINE
\	LIGHT POLE		EASEMENT LINE
⟨E	ELECTRIC METER		EXISTING CONCRETE
\boxtimes	TELEPHONE JUNCTION BOX		EXISTING ASPHALT
	TELEPHONE PEDESTAL		EXISTING ASPHALI
(T)	TELEPHONE MANHOLE	606060	
0	TRAFFIC SIGN	/	EXISTING VEGETATION
- □-	TRAFFIC SIGNAL BOX		
	MAILBOX		

PROPOSED UTILITY SYMBOLS

WATER LINE

HORIZONTAL BEND

GATE VALVE

REPLACEMENT OF

DEMOLITION SYMBOLS

CONCRETE REPLACEMENT OF

-02

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ASPHAIT REPLACEMENT OF SOD

X: X: X: ABANDON IN PLACE AIR RELEASE VALVE

RESTRAINT LENGTHS

TEE

UNCASED BORE

FIRE HYDRANT

BORE CONDUIT

REQUIRED REST	TRAINED LENGTHS
FITTING	RESTRAINED JOINT LENGTH (FT)
11.25" HORZ.	5
22.5" HORZ.	10
45" HORZ.	15
90" HORZ.	40
11.25" VERT.	10
22.5" VERT.	20
45" VERT.	40
90" VERT.	95
6" DEAD END	50
6"X6" TEE	30
12"x6" TEE	10
CALCULATED USIN	G RESTRAINT LENGTHS

CALCULATOR FOUND HERE: https://dipra.org/technical-resources/calculato s/thrust-restraint-calculator

TYPE 4 LAYING CONDITION, CLAY 2 SOIL, 4' COVER, 250 PSI DESIGN PRESSURE, 1.5 SAFETY FACTOR, ALL LENGTHS POLYWRAPPED





REVISION DATE ADDENDUM NO. 3 WCH JULY 21, 2025 GENERAL CONSTRUCTION NOTES PROJECT NO. TMUA-W 21-02 TO#12

BERRYHILL WATER LINE

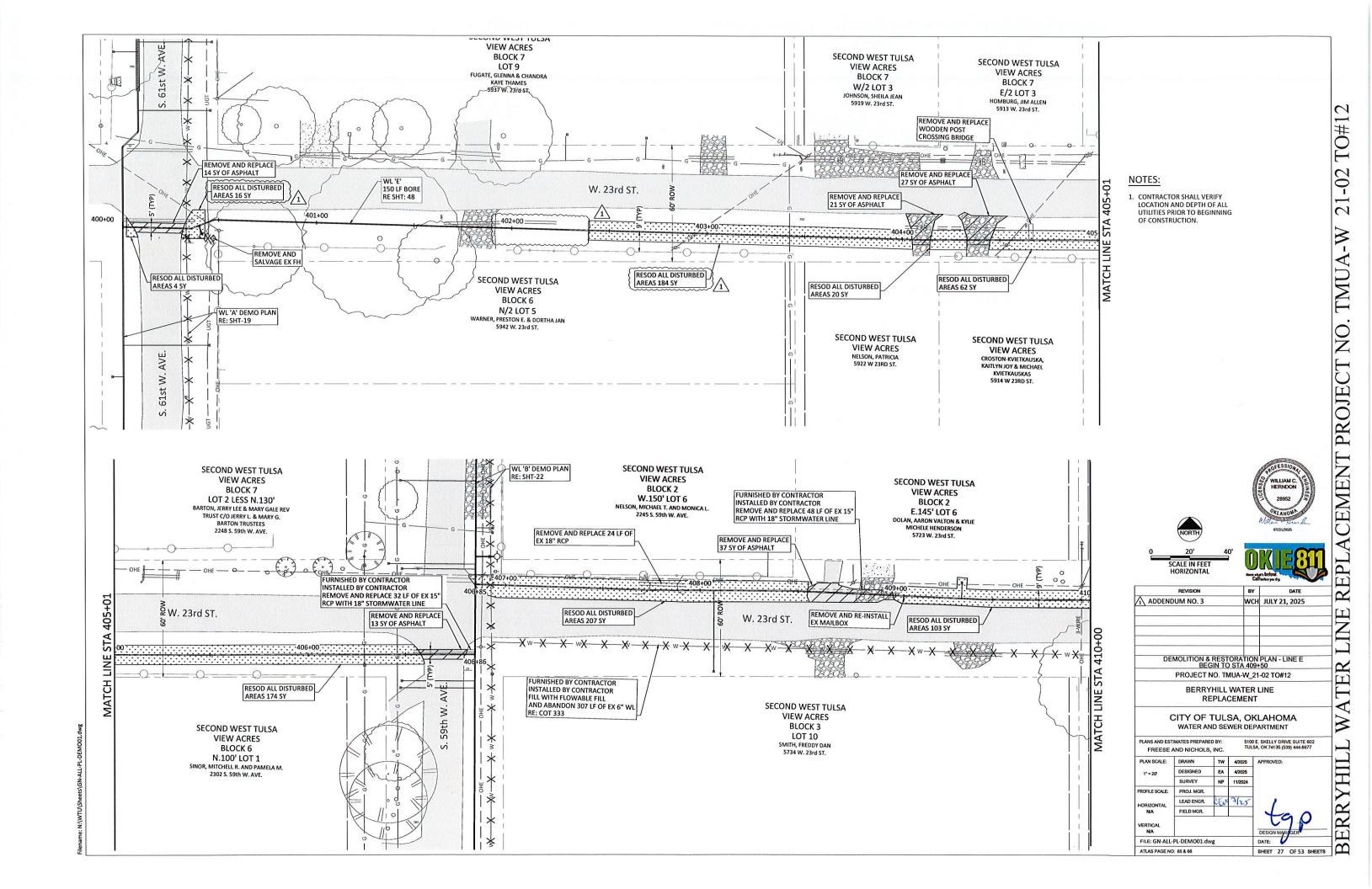
REPLACEMENT

CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT

5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677 FREESE AND NICHOLS INC LAN SCALE 4/2025

DESIGNED EA 4/2025 SURVEY NP 11/2024 ROFILE SCALE PROJ. MGR LEAD ENGR. HORIZONTA FIELD MGR.

FILE: GN-ALL-GN-NOTES.dwg SHEET 5 OF 53 SHEETS



NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.



2. CONTRACTOR SHALL SET CHAIN LINK FENCE BACK TO OUTSIDE OF RIGHT-OF-WAY.



21-02 TO#12

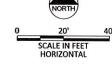
REPLACEMENT PROJECT NO. TMUA-W

TER LINE

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ERRYHILL

SHEET 28 OF 53 SHEETS



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MW	F	\mathbf{O}
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Know what's below. Call before you do		

REVISION	BY	DATE
ADDENDUM NO. 3	WCH	JULY 21, 2025
DEMOLITION & RESTOR		
PROJECT NO. TMU	A-W_21	-02 TO#12

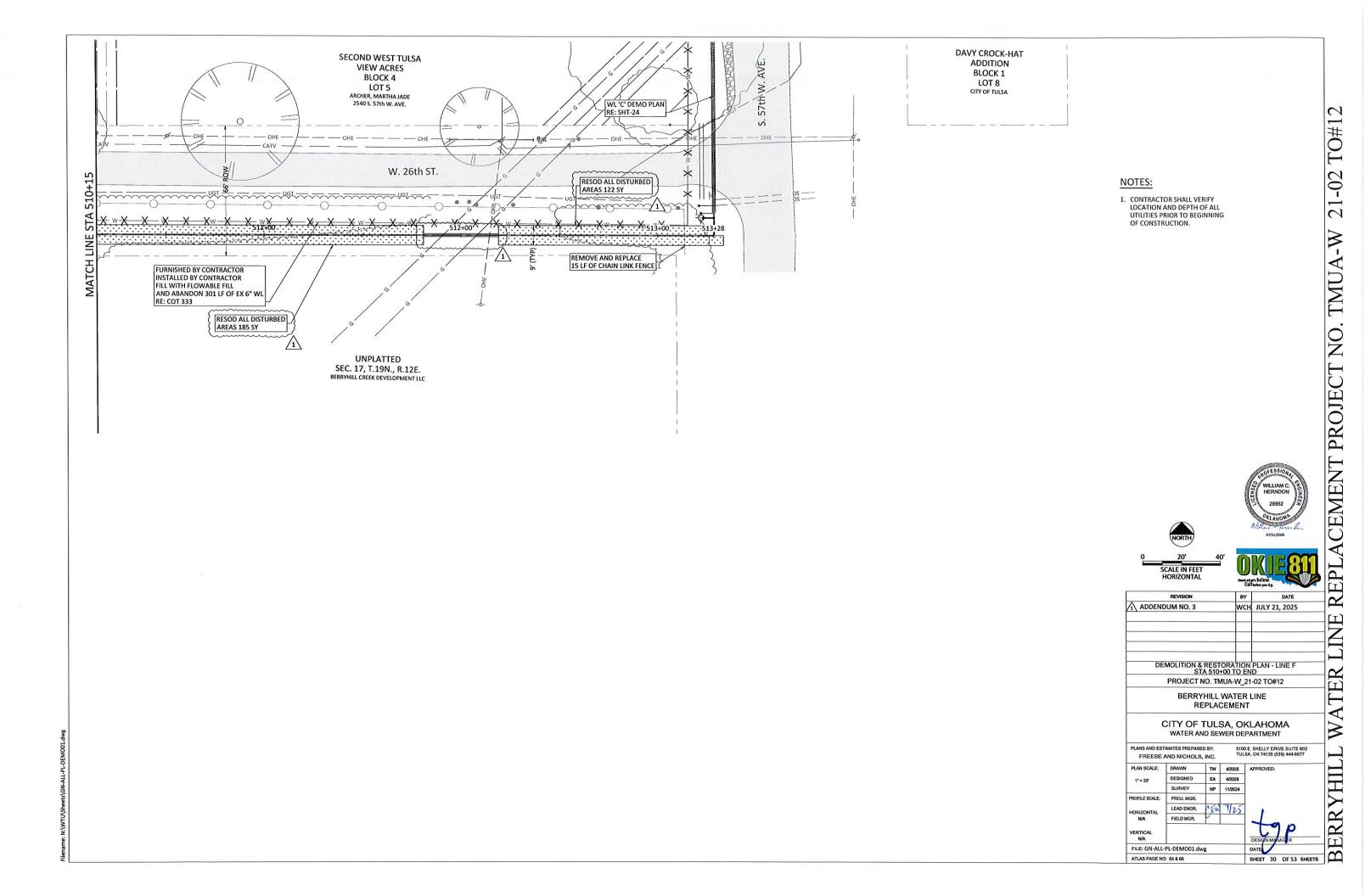
BERRYHILL WATER LINE REPLACEMENT

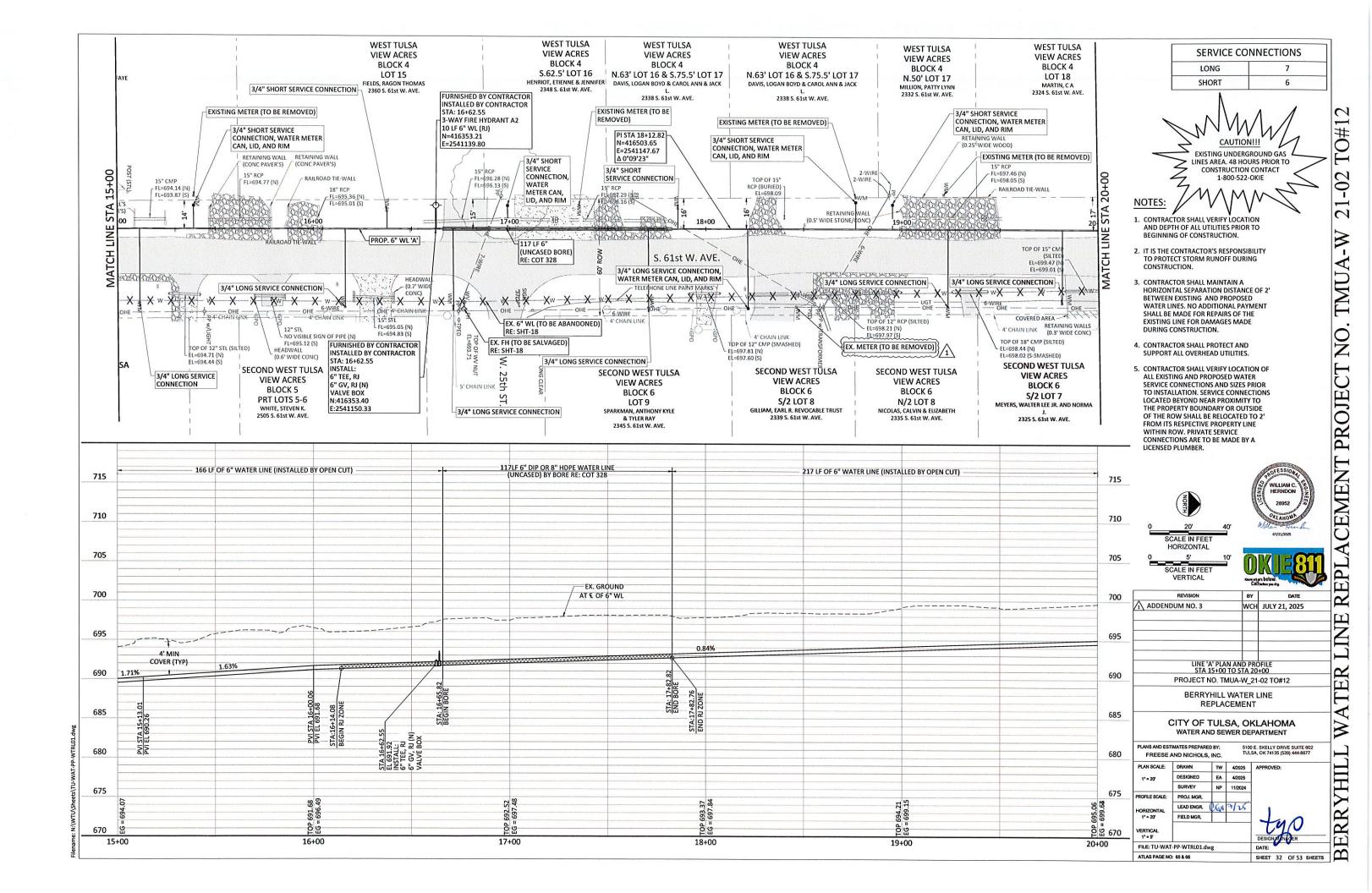
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT

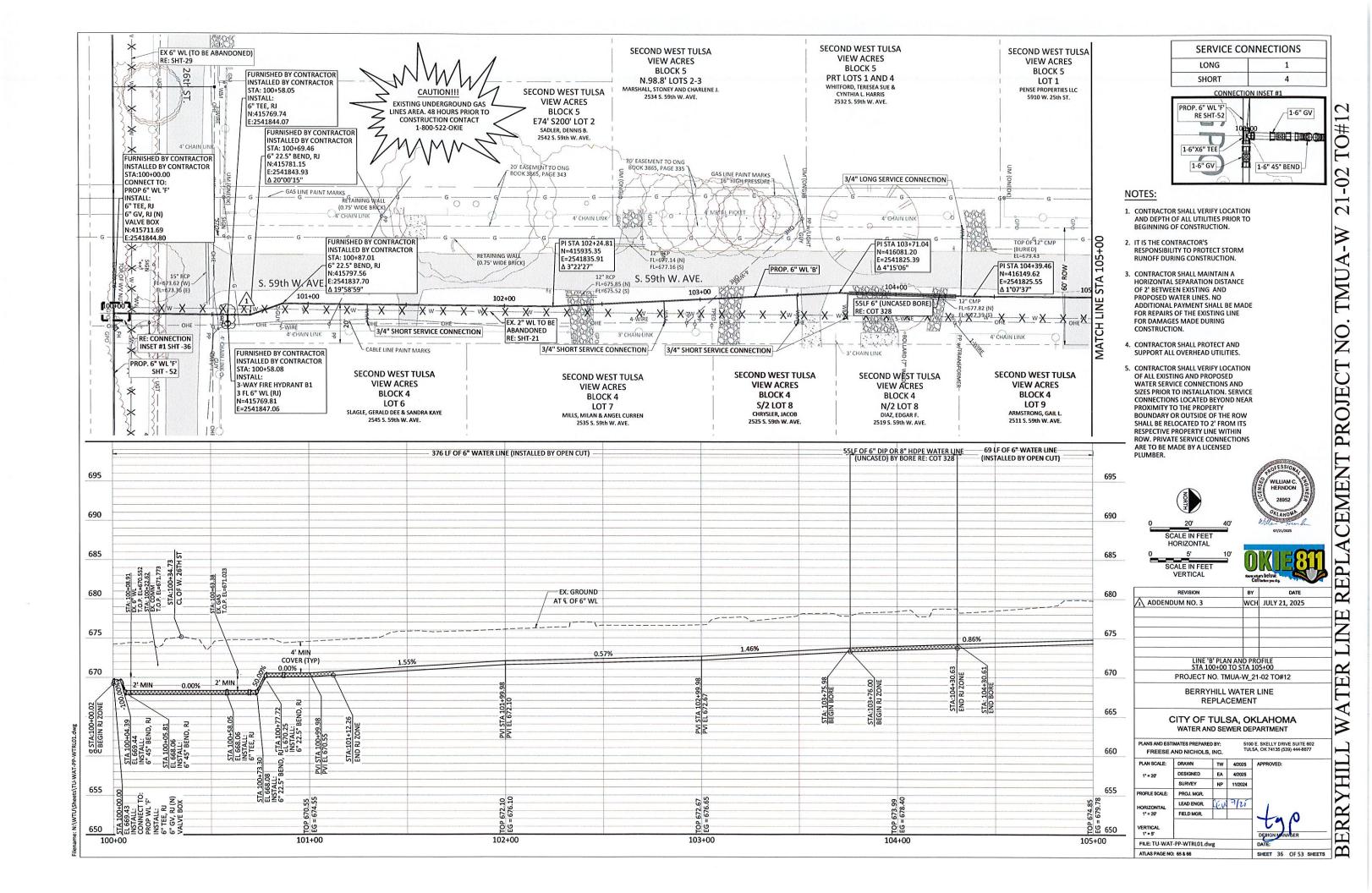
	AND NICHOLS			SA, OK 74135 (539) 444
PLAN SCALE:	DRAWN	TW	4/2025	APPROVED:
1" = 20"	DESIGNED	EA	4/2025	1
	SURVEY	NP	11/2024	1
PROFILE SCALE:	PROJ. MGR.			1
HORIZONTAL	LEAD ENGR.	PEN	7/25	,
N/A	FIELD MGR.			
VERTICAL				Calo

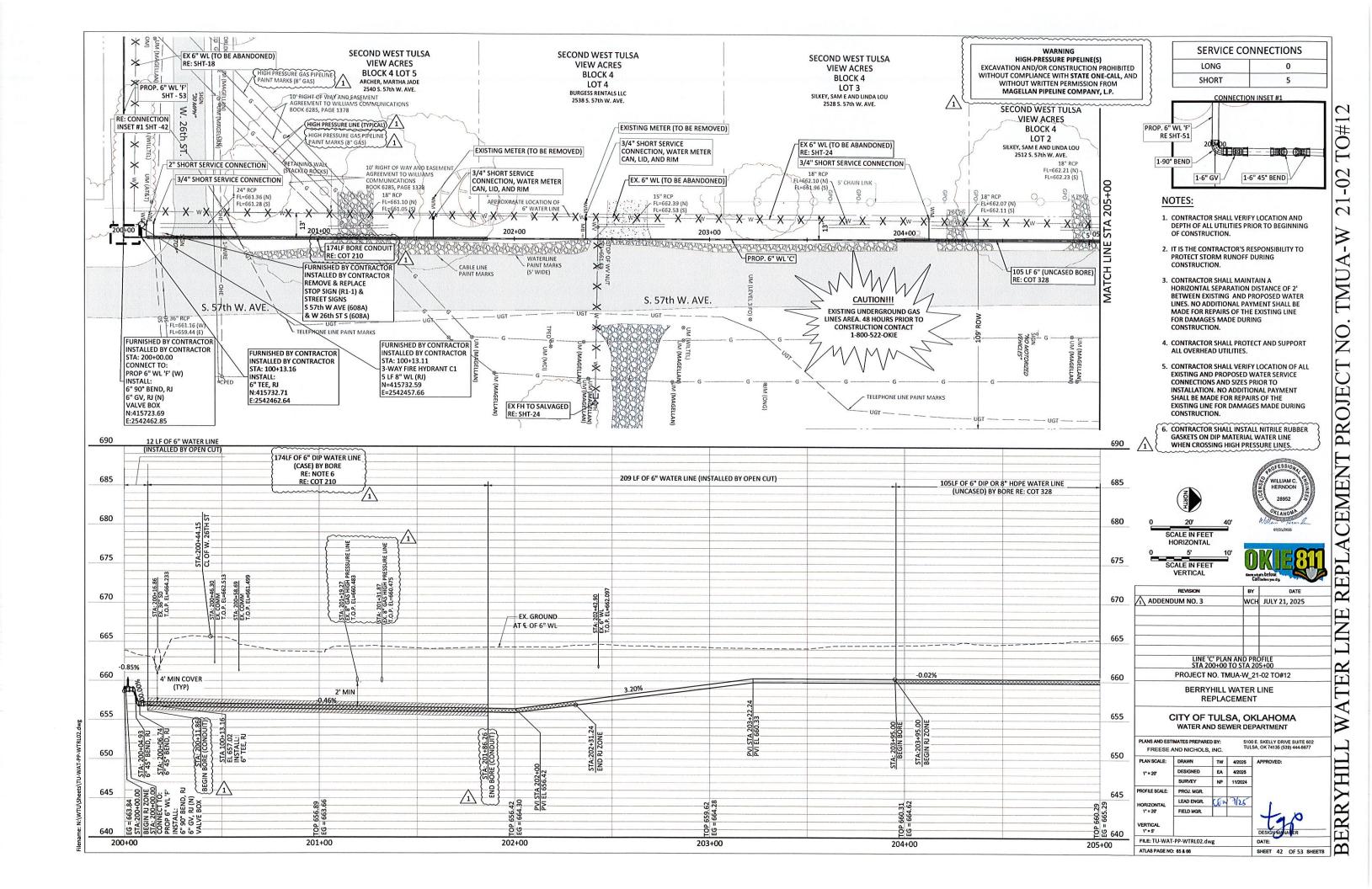
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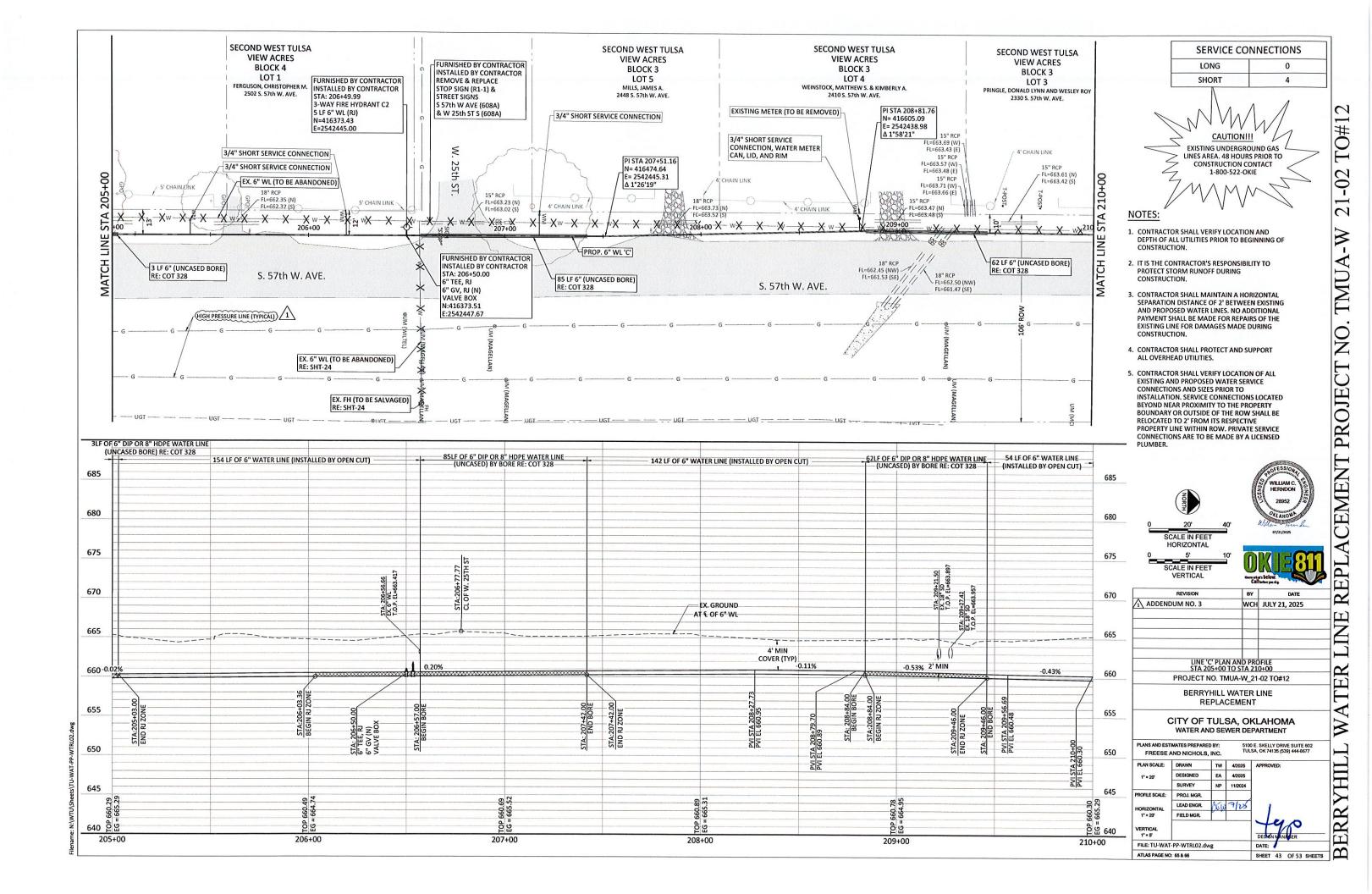
ATLAS PAGE NO: 65 & 66

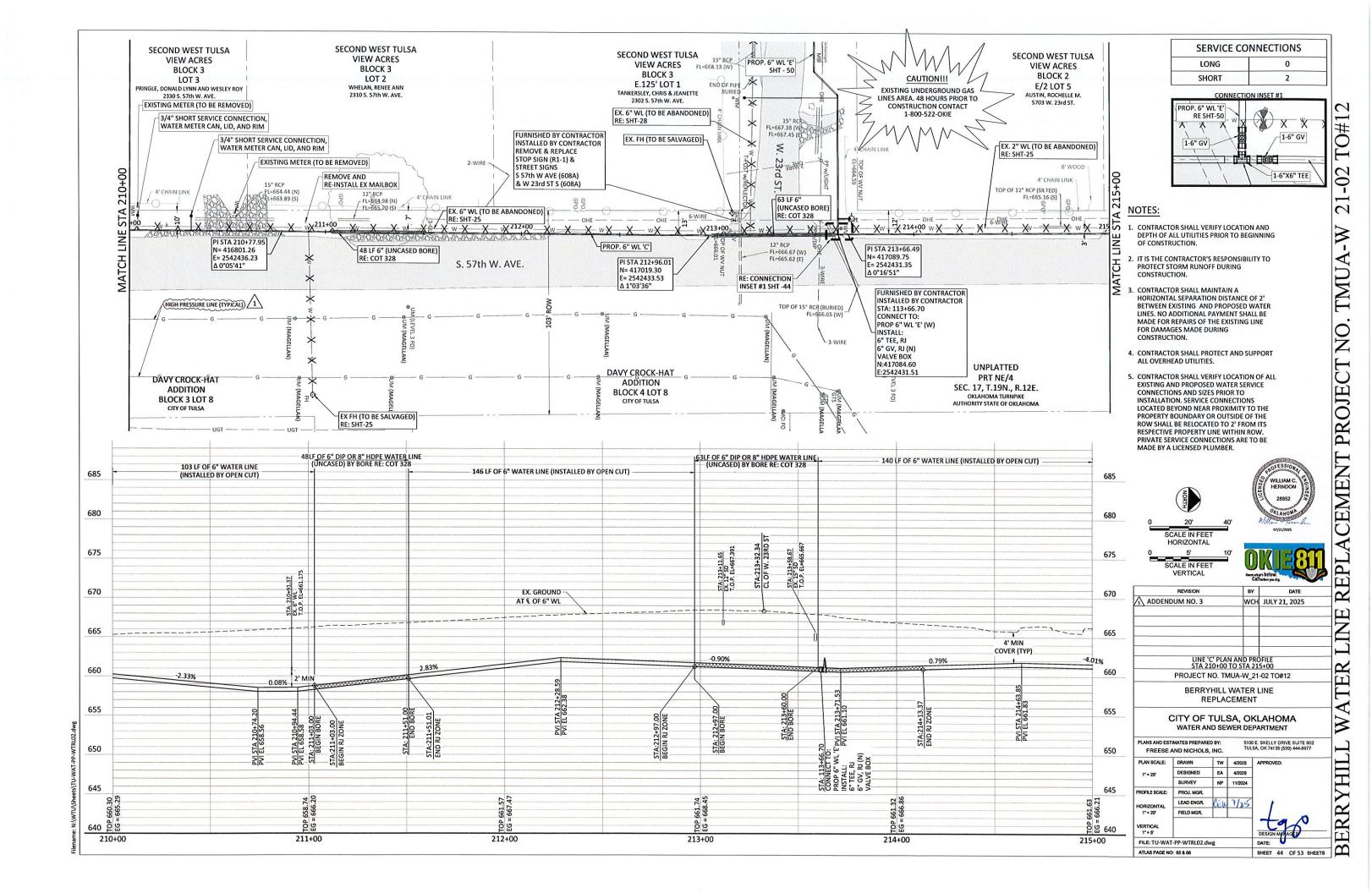


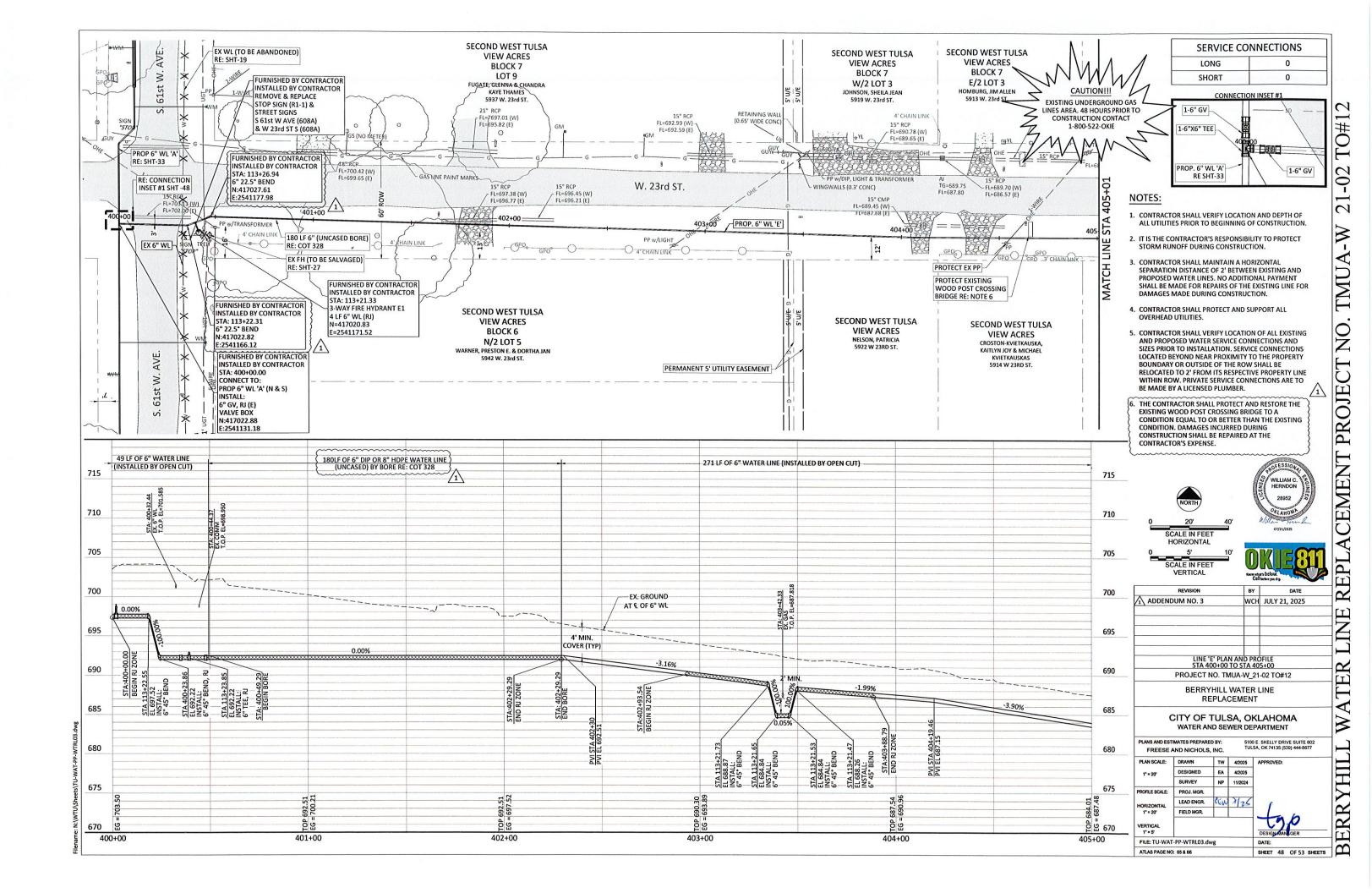


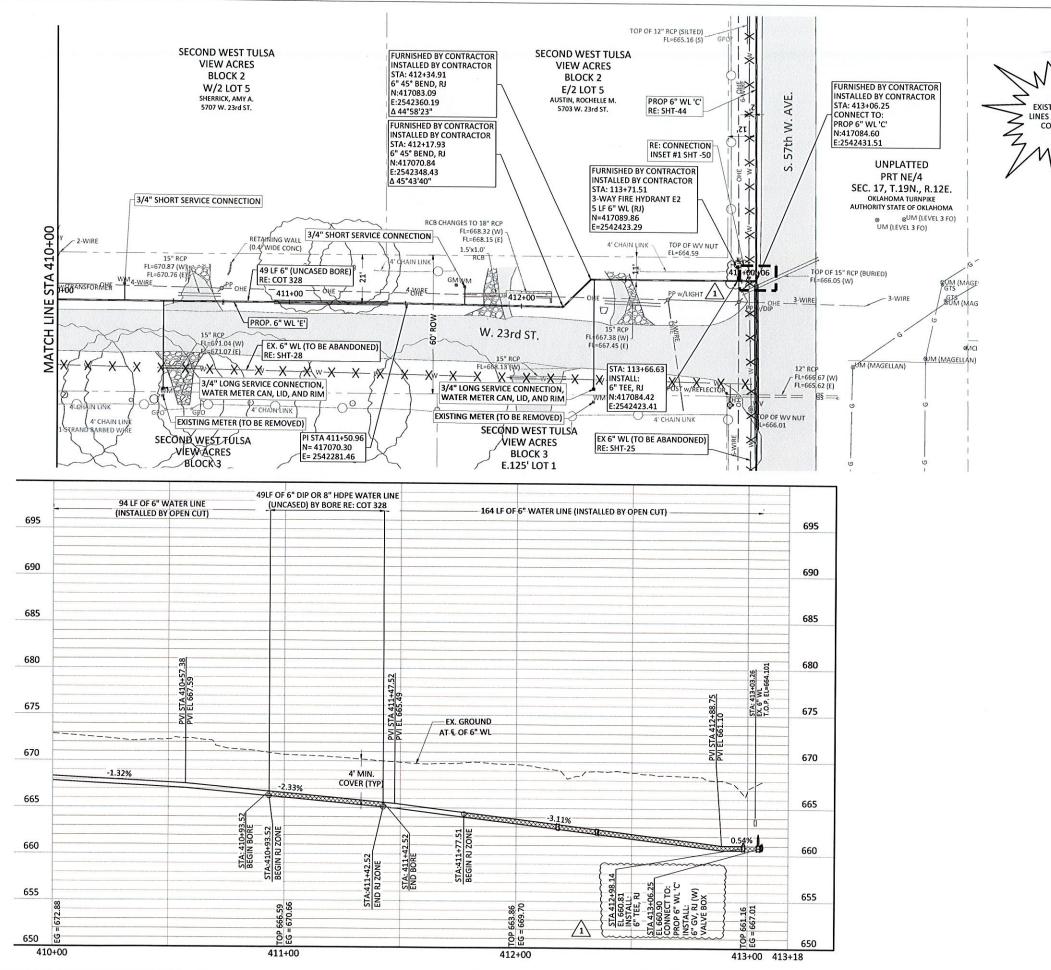












CAUTION!!!

EXISTING UNDERGROUND GAS
LINES AREA. 48 HOURS PRIOR TO
CONSTRUCTION CONTACT
1-800-522-OKIE

EX. 6" WL TO BE
ABANDONED

LONG 2
SHORT 1
CONNECTION INSET #1

SERVICE CONNECTIONS

CONNECTION INSET #1

1-6" GV

413+00

413+00

1-6"X6" TEE

PROP. 6" WL 'C'
RE SHT-42

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TMUA-

NO.

PROJECT

LINE REPLACEMENT

ATER

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ERRYHILL

SHEET 50 OF 53 SHEETS

NOTES:

- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT STORM RUNOFF DURING CONSTRUCTION.
- 3. CONTRACTOR SHALL MAINTAIN A HORIZONTAL SEPARATION DISTANCE OF 2' BETWEEN EXISTING AND PROPOSED WATER LINES. NO ADDITIONAL PAYMENT SHALL BE MADE FOR REPAIRS OF THE EXISTING LINE FOR DAMAGES MADE DURING CONSTRUCTION.
- 4. CONTRACTOR SHALL PROTECT AND SUPPORT ALL OVERHEAD UTILITIES.
- 5. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING AND PROPOSED WATER SERVICE CONNECTIONS AND SIZES PRIOR TO INSTALLATION.SERVICE CONNECTIONS LOCATED BEYOND NEAR PROXIMITY TO THE PROPERTY BOUNDARY OR OUTSIDE OF THE ROW SHALL BE RELOCATED TO 2' FROM ITS RESPECTIVE PROPERTY LINE WITHIN ROW. PRIVATE SERVICE CONNECTIONS ARE TO BE MADE BY A LICENSED PLUMBER.



HORIZONTAL

5' 10'

SCALE IN FEET

VERTICAL

Care stars below.
Call before page 3

	Call before you do.		
REVISION	BY	DATE	
ADDENDUM NO. 3	WCH	JULY 21, 2025	
LINE 'E' PLAN A STA 410+00	ND PRO	PFILE	
PROJECT NO. TMUA			

BERRYHILL WATER LINE

REPLACEMENT

CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT

	IMATES PREPARE AND NICHOLS			0 E. SKELLY DRIVE SUITE 602 SA, OK 74135 (539) 444-8677
PLAN SCALE:	DRAWN	TW	4/2025	APPROVED:
1* = 20*	DESIGNED	EA	4/2025	
	SURVEY	NP	11/2024	
PROFILE SCALE:	PROJ. MGR.			
HORIZONTAL	LEAD ENGR.	EXW	7/25	1
1" = 20"	FIELD MGR.			
VERTICAL 1" = 5'				DESIGN MANAGER
FILE: TU-WAT	-PP-WTRL03.dv	vg		DATE:

ATLAS PAGE NO: 65 & 66

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