



1700 East Iron Ave.
Salina, KS 67401
785-827-0433 phone
785-827-5949 fax

27 February 2026

ADDENDUM NO. 1

RE: Leon, KS
Water System Improvements – Phase #2
WCI File: 23-600-636-00

To All Prospective Bidders:

The Contract Documents for the referenced project are hereby amended in the following particulars only, with all other conditions remaining unchanged.

A. Plans

1. Sheet C-118
REMOVE existing sheet C-118 and REPLACE with attached sheet C-118 which modifies the note calling out 2” splash park connection. This addition is also added as a separate line item in the bid form and measurement and payment.
2. Sheet No. C-501
REMOVE existing sheet C-501 and REPLACE with attached sheet C-501 which ADDS new meter pit and lids to the scope of work. This addition is also added as a separate line item in the bid form and measurement and payment. Note: New curb stop location is modified to be located inside the new meter pit before tie in to the existing meters/setters.

B. PROJECT MANUAL

1. Section 00003 – Table of Contents:
REMOVE and REPLACE Section 00003 Table of Contents with new attached section which includes reference to meter pit and lid specification section.
2. Section 00410 – Bid Form:
REMOVE and REPLACE Section 00410 Bid Form with new attached section that includes line items for the meter pit & lid replacements and the 2-inch splash park connection in the Bid Form Attachment A.

3. Section 01025– Measurement & Payment:
REMOVE and REPLACE Section 01025 Measurement & Payment with new attached section that includes descriptions for the meter pit & lid replacements and the 2-inch splash park connection added to project documents.

4. Section 11300 – Meter Pit & Lid:
ADD the attached Section 11300 Meter Pit & Lid to the project manual.

This ADDENDUM is hereby made a part of the Bidding Documents to the same extent as though contained in the original documents. Work to be included shall not be limited to narrative description contained herein, but shall also include adjustments or revisions to other work not mentioned, in order to accomplish the Work described.

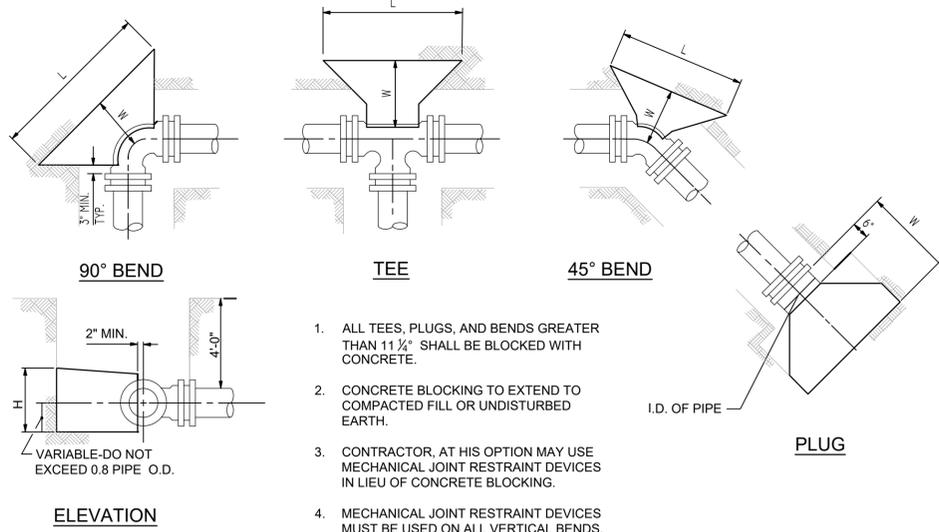
Each Bidder shall acknowledge receipt of this ADDENDUM in the space provided on the Bid Form.

WILSON & COMPANY



Colton Woodard
Project Manager

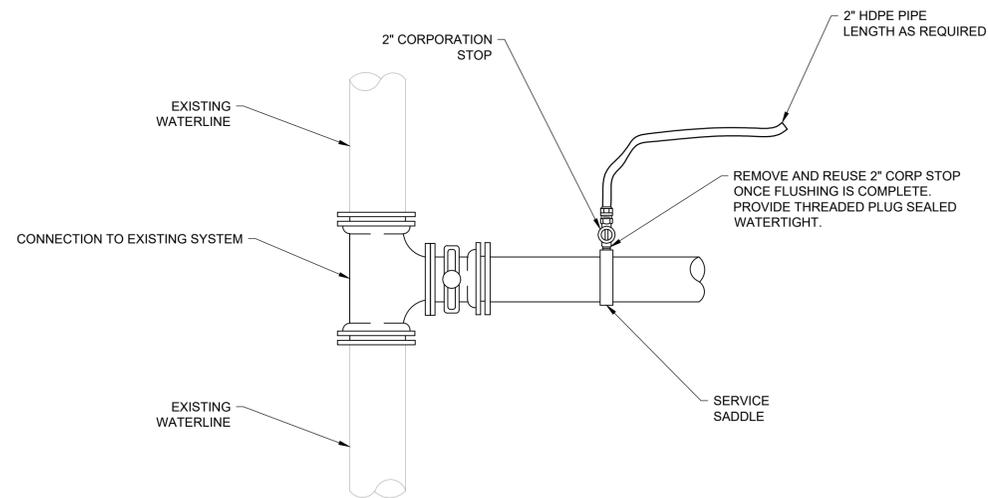
Minimum Dimensions for Reaction Blocking				
Design Pressure=	150 PSI			
Soil Bearing Pressure=	1500 PSF			
FITTING	LENGTH (L)	WIDTH (W)	HEIGHT (H)	C.Y. OF CONCRETE REQUIRED
2"				
90° BEND	8	12	8	0.02
45° BEND	6	12	6	0.01
22.5° BEND	5	12	5	0.00
11.25° BEND	5	12	5	0.03
TEE	7	12	7	0.01
PLUG	8	12	8	0.51
4"				
90° BEND	20	16	20	0.13
45° BEND	15	16	15	0.07
22.5° BEND	11	16	11	0.03
11.25° BEND	8	16	8	0.02
TEE	16	16	16	0.08
PLUG	17	16	17	0.09
6"				
90° BEND	28	18	28	0.29
45° BEND	21	18	21	0.16
22.5° BEND	15	18	15	0.08
11.25° BEND	11	18	11	0.04
TEE	23	18	23	0.19
PLUG	24	18	24	0.21



1. ALL TEES, PLUGS, AND BENDS GREATER THAN 1 1/4" SHALL BE BLOCKED WITH CONCRETE.
2. CONCRETE BLOCKING TO EXTEND TO COMPACTED FILL OR UNDISTURBED EARTH.
3. CONTRACTOR, AT HIS OPTION MAY USE MECHANICAL JOINT RESTRAINT DEVICES IN LIEU OF CONCRETE BLOCKING.
4. MECHANICAL JOINT RESTRAINT DEVICES MUST BE USED ON ALL VERTICAL BENDS.

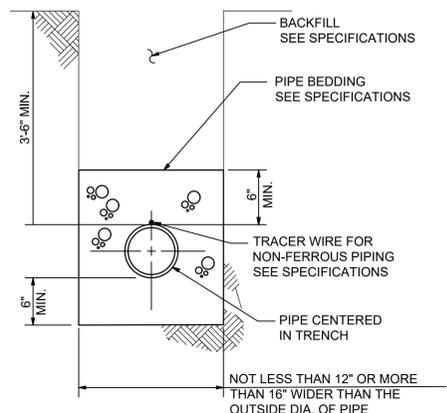
F1 TYPICAL BLOCKING DETAIL

NOT TO SCALE



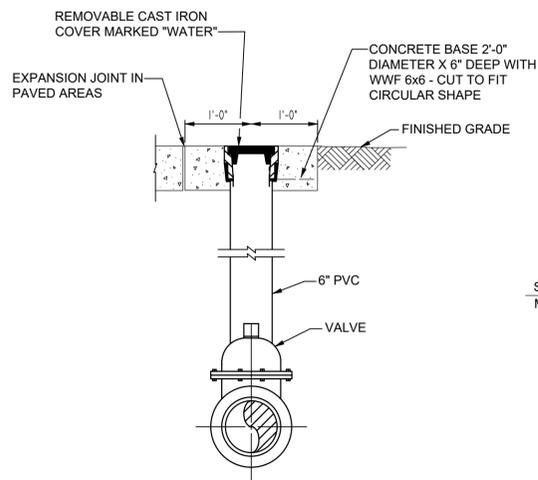
C1 TEMPORARY FLUSHING ASSEMBLY DETAIL

NOT TO SCALE



A1 PIPE BEDDING/TRENCH DETAIL

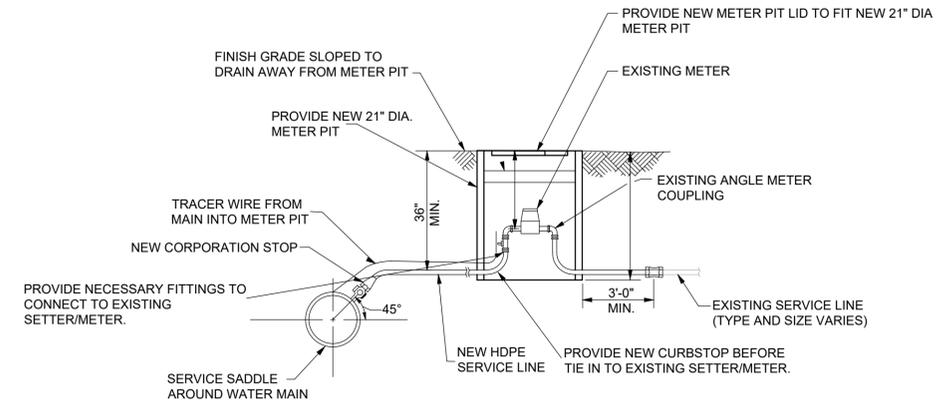
NOT TO SCALE



A5 VALVE BOX DETAIL

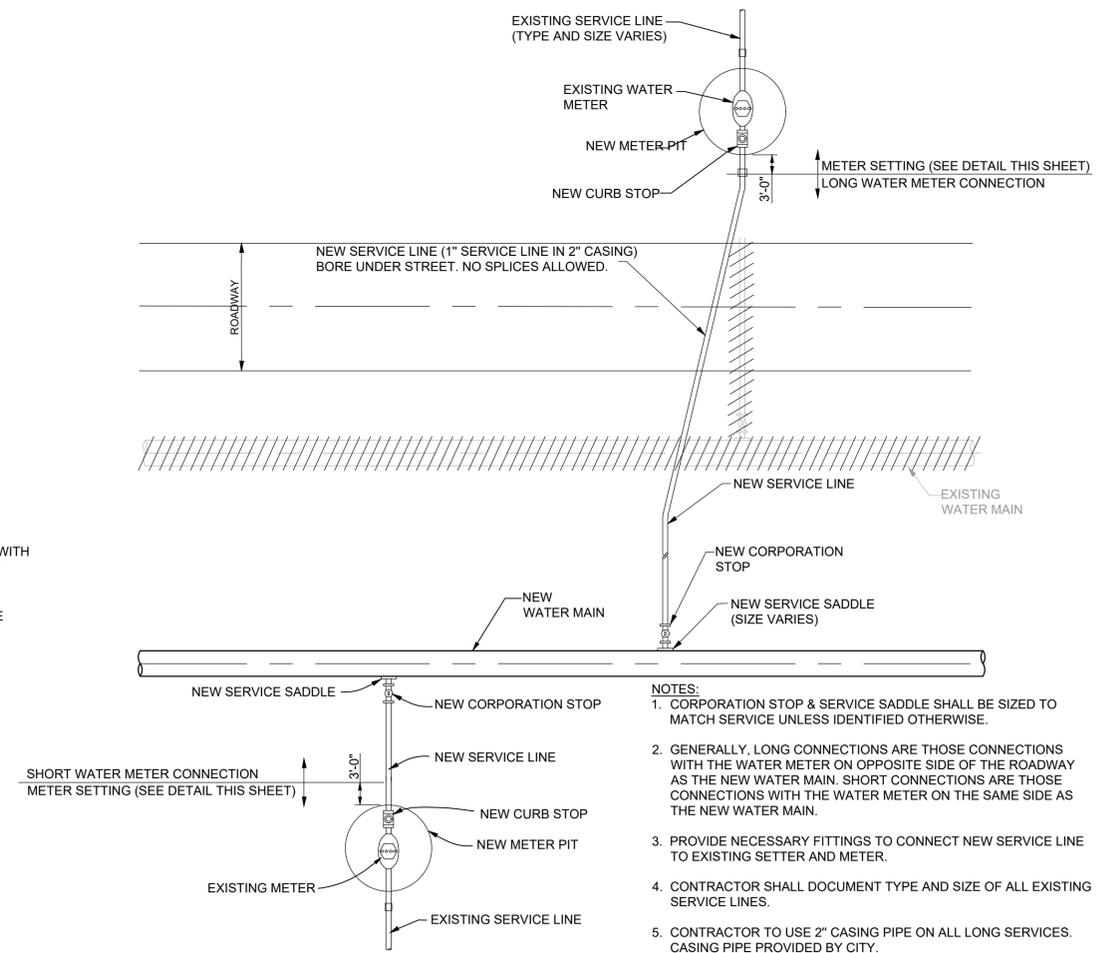
NOT TO SCALE

- NOTE:
1. CONTRACTOR TO INSTALL NEW CURBSTOP PRIOR TO CONNECTION TO EXISTING SETTER & METER.
 2. EXISTING WATER MAINS MAY NOT HAVE AN EXISTING OR OPERABLE CORP. STOP.
 3. PAVEMENT REPLACEMENT FOR SERVICE CONNECTION TO NEW MAIN IS SUBSIDIARY TO WATER SERVICE CONNECTION.



F7 TYPICAL WATER SERVICE CONNECTION DETAIL

NOT TO SCALE



A7 WATER SERVICE CONNECTION DETAIL

NOT TO SCALE

- NOTES:
1. CORPORATION STOP & SERVICE SADDLE SHALL BE SIZED TO MATCH SERVICE UNLESS IDENTIFIED OTHERWISE.
 2. GENERALLY, LONG CONNECTIONS ARE THOSE CONNECTIONS WITH THE WATER METER ON OPPOSITE SIDE OF THE ROADWAY AS THE NEW WATER MAIN. SHORT CONNECTIONS ARE THOSE CONNECTIONS WITH THE WATER METER ON THE SAME SIDE AS THE NEW WATER MAIN.
 3. PROVIDE NECESSARY FITTINGS TO CONNECT NEW SERVICE LINE TO EXISTING SETTER AND METER.
 4. CONTRACTOR SHALL DOCUMENT TYPE AND SIZE OF ALL EXISTING SERVICE LINES.
 5. CONTRACTOR TO USE 2" CASING PIPE ON ALL LONG SERVICES. CASING PIPE PROVIDED BY CITY.

WILSON & COMPANY
 1700 EAST IRON AVE
 SALINA, KS 67401
 PHONE: 785-827-0433
 FAX: 785-827-5949
 www.wilsonco.com



CITY OF LEON, KS
 WATER SYSTEM
 IMPROVEMENTS PHASE 2

REV.	DATE	DESCRIPTION	BY
1	2/09/26	ADDENDUM #1	CJW

PROJECT NO: 2360063600
 DESIGNED BY: CJW
 DRAWN BY: BR
 CHECKED BY: DAG
 DATE: OCTOBER 2025

SHEET TITLE
**MISCELLANEOUS
 DETAILS**

SHEET NO:
C-501

2/9/2026 W:\Projects\2360063600\09_CADD\04_Sheets\Civil\2360063600_MD.dwg

SECTION 00003

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APPENDICES

APPENDIX A – Kansas Public Water Supply Loan Fund SRF Contract Provisions

APPENDIX B - NOT USED

APPENDIX C – Kansas Department of Health and Environment Procedures for Pressure and Leakage Testing of Water Mains

APPENDIX D – Kansas Department of Health and Environment Procedures for the Disinfection Water Mains

APPENDIX E – Example Build America Buy America (BABA) Certification Form

APPENDIX F – Exploratory Hydro Excavation Log

END OF SECTION

SECTION 00410 – BID FORM

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 1—OWNER AND BIDDER

- 1.01 This Bid is submitted to: City of Leon, KS – 111 S. Main St, Leon, KS 67074
- 1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2—ATTACHMENTS TO THIS BID

- 2.01 The following documents are submitted with and made a condition of this Bid:
 - A. Required Bid security;
 - B. List of Proposed Subcontractors;
 - C. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids;
 - D. Contractor’s license number as evidence of Bidder’s State Contractor’s License or a covenant by Bidder to obtain said license within the time for acceptance of Bids;
 - E. KDHE State Revolving Loan Fund;
 - 1. State of Kansas Act Against Discrimination Contract Provision Certification Form
 - 2. Demonstration of Compliance with DBE Good Faith Efforts Worksheet
 - 3. Certification Regarding Lobbying
 - 4. Build America Buy America Certification

ARTICLE 3—BASIS OF BID—UNIT PRICES

- 3.01 *Total Base Bid Price (Unit Prices)*
 - A. Bidder will complete the Work including all equipment, materials, labor and installation in accordance with the Contract Documents for the following price(s):

TOTAL BASE BID PRICE*:

_____ Dollars (\$_____).

B. Bidder acknowledges that:

1. each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and
2. estimated quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

BID FORM ATTACHMENT A: WATER SYSTEM IMPROVEMENTS – PHASE 2

Bid Item	Item Description	Unit	Estimated Quantity	Unit Price	Amount
General:					
1	Mobilization	L.S.	1		
2	Construction Staking	L.S.	1		
3	Erosion Control	L.S.	1		
4	Grass Seeding	L.S.	1		
				<i>SUBTOTAL</i>	
Water System Improvements:					
5	Waterline Piping by Trenching, PVC				
	4-inch	L.F.	1,230		
	6-inch	L.F.	8,935		
6	Waterline Piping by Directional Drill, PVC				
	4-inch	L.F.	146		
	6-inch	L.F.	3,470		
7	Gate Valve Assembly				
	4-inch	EA	3		
	6-inch	EA	23		
8	Fire Hydrant Assembly	EA	21		
9	Flushing Hydrant Assembly	EA	1		
10	Water Service Connection				
	Short Service	EA	102		
	Long Service	EA	97		
11	Connections to Existing System	EA	24		
12	Existing System Abandonment	EA	20		
13	Rock Excavation	CY	4		
14	6" Insertion Valve	EA	1		
15	Removal and Replacement of Surfacing				
	Gravel	LF	972		
	Asphalt	LF	31		
	Concrete	LF	108		
16	Meter Pit & Lid Replacement	EA	199		
17	2-inch Splash Park Connection	L.S.	1		
				<i>SUBTOTAL</i>	
TOTAL BASE BID PRICE					

3.02 *Alternates:* The Owner reserves the right to accept or reject the following alternates. Upon acceptance of the alternate(s) by the Owner, the named items shall be furnished, removed, or adjusted as shown on the Drawings and as specified. The Total Bid Price will be modified accordingly. A bid must be received for all alternates if a bid is submitted.

The following Alternates shall be composed of the following work: Furnishing all costs in connection with labor, materials, and equipment necessary to construct the proposed waterline as shown on the drawings. The materials and equipment include pipe and fittings; valves; hydrants; seals; tracer wire; temporary isolations; open trenching and over excavation of trench; trench stabilization; shoring and bracing as required; dewatering as necessary; standard excavation; discovery and protection of subsurface obstructions; fine grading and shaping trench bottoms; disposal of surplus and waste materials; disinfecting and flushing of waterline; grading; traffic control; providing fill dirt as necessary; notification and coordination with homeowners; grass seeding; removal and replacement of surfacing; water service connection; and all other incidental and appurtenant work required to complete this item. Subsidiary items shall include construction staking, clearing and grubbing and erosion control as pertinent to the indicated Alternate. The quantity stated within the Alternate will be the pay quantity for this item unless either party has reason to believe the final quantity has varied significantly from the base bid quantity.

Bid Item	Item Description	Unit	Estimated Quantity	Unit Price	Amount
Addition for Alternate No. 1					
5	Waterline Piping by Trenching, 6" PVC	LF	310		
10	Water Service Connection				
	Short Service	EA	2		
	Long Service	EA	4		
15	Removal and Replacement of Surfacing				
	Gravel	LF	48		

Total Addition for Alternate No. 1 _____

Bid Item	Item Description	Unit	Estimated Quantity	Unit Price	Amount
Addition for Alternate No. 2					
5	Waterline Piping by Trenching, 6" PVC	LF	553		
10	Water Service Connection				
	Short Service	EA	3		
	Long Service	EA	2		
15	Removal and Replacement of Surfacing				
	Gravel	LF	56		

Total Addition for Alternate No. 2 _____

Bid Item	Item Description	Unit	Estimated Quantity	Unit Price	Amount
Addition for Alternate No. 3					
5	Waterline Piping by Trenching, 6" PVC	LF	275		
10	Water Service Connection				
	Short Service	EA	3		
	Long Service	EA	3		
15	Removal and Replacement of Surfacing				
	Gravel	LF	24		

Total Addition for Alternate No. 3 _____

Deduction for Alternate No. 3					
14	6" Insertion Valve	EA	1		

Total Deduction for Alternate No. 3 _____

Alternate No. 4:

Utility Locator. This item shall include all costs in connection with furnishing and installing the utility locator equipment; (Subsite Model Utiliguard 2) complete with transmitter; receiver; and all necessary accessories to accurately locate buried telephone, CATV, power, gas and water/sewer lines; training; testing; troubleshooting; and all other incidental and appurtenant work required to complete this item.

Bid Item	Item Description	Unit	Estimated Quantity	Unit Price	Amount
Addition for Alternate No. 4					
	Utility Locator	EA	1		
Total Addition for Alternate No. 4					

ARTICLE 4—TIME OF COMPLETION

- 4.01 Bidder agrees that the Work will be substantially complete on or before _____, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before _____.
- 4.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 5—BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

- 5.01 *Bid Acceptance Period*
 - A. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.
- 5.02 *Instructions to Bidders*
 - A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.
- 5.03 *Receipt of Addenda*
 - A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

ARTICLE 6—BIDDER’S REPRESENTATIONS AND CERTIFICATIONS

- 6.01 *Bidder’s Representations*
 - A. In submitting this Bid, Bidder represents the following:
 - 1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
 - 2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 - 3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work, including all American Iron and Steel requirements.
 - 4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
 - 5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in

the Supplementary Conditions, with respect to Technical Data in such reports and drawings.

6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.
7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

6.02 *Bidder's Certifications*

A. The Bidder certifies the following:

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:
 - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
 - b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at

artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.

- c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.
- d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

BIDDER hereby submits this Bid as set forth above:

Bidder:

(typed or printed name of organization)

By: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

Address for giving notices:

Bidder's Contact:

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Phone: _____

Email: _____

Address: _____

Bidder's Contractor License No.: (if applicable) _____

END OF SECTION

SECTION 01025 – MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Payment for work performed by the Contractor under these Contract Documents will be made at the approved contract unit price for each of the items listed in the bid and measured as hereinafter specified. Such payment shall compensate the Contractor for all costs in connection with furnishing all labor, equipment and material required and performing the operations necessary to complete the items in accordance with the Contract Documents. All incidental work essential to completion of the project in a skillful manner, including cleanup and disposal of waste or surplus material, shall be accomplished by the Contractor at no additional cost to the Owner. Quantities listed in the bid are not guaranteed and are indicated only for convenience in comparing bids. Payment will be made for actual quantities constructed or installed as authorized by these Contract Documents; be they more or less than those listed; said quantities being measured and determined as follows:

Item No. 1 “Mobilization” will be paid for at the contract lump sum price. This item shall include all costs in connection with mobilizing construction facilities and equipment to and from the project site, preparatory work, and operations which must be performed or costs incurred prior to beginning work on the project site. Traffic control and coordination with other contracts shall be subsidiary to this item.

Item No. 2 “Construction Staking” will be paid for at the contract lump sum price. This item shall include all costs in connection with construction staking; and all other incidental and appurtenant work required to complete this item.

Item No. 3 “Erosion Control” will be paid for at the contract lump sum price. Payment will be full compensation for all material, labor, equipment, tools and incidental items necessary to complete the work. Implementing erosion control methods during construction to prevent unnecessary silt/sediment discharge through downstream properties and/or storm sewer systems and periodic maintenance of sediment control measures as directed by Owner/Engineer shall be included. This item shall also include costs incurred by Contractor for operating and maintaining the Kansas Water Pollution Control General Permit Under the National Pollutant Discharge Elimination System (NPDES) permit that will be transferred to the contractor upon award of contract. Requirements of the Notice of Intent (NOI) permit can be found in the Appendices. These controls may include but not limited to: biodegradable logs, triangular silt dike barriers, silt fences, temporary mulching, temporary seeding, construction entrances, sediment barriers, culvert inlet and curb inlet protection or other controls necessary to inhibit sediment runoff during construction. No extra payment shall be made for maintenance or removal of sediment control measures. Subsidiary items include clearing, grubbing, hauling, burning and disposal of removed material as necessary.

Item No. 4 “Grass Seeding” will be paid for at the contract lump sum price. This item includes all labor, equipment, and materials to seed along newly installed pipelines at well site improvements area and all existing seeded areas disturbed by construction not scheduled to be re-surfaced. This item will include spreading of topsoil previously stockpiled during excavation; preparation of seedbed; grading; discing; harrowing; and firming of soil; seeding and mulching; matching existing grass type as area disturbed; and all miscellaneous work required to complete this item. Any areas disturbed by the Contractor outside these construction limits will be paid for by the Contractor at no additional cost to Owner.

Item No. 5 “Waterline Piping by Trenching, PVC” will be paid for at the contract unit price per linear foot installed and measured on the centerline of the pipeline for the respective pipe size indicated on the Drawings (horizontal to existing grade—no additional length will be paid for required curvature of pipe).

This item shall include all costs in connection with furnishing and installing all permanent and temporary pipe; fittings; special use fittings; caps or plugs; couplings; joint materials; seals; restrained joints and special use fittings; tracer wire; tracer wire access boxes and appurtenances as shown and specified in the contract documents; open trenching and over excavation of trench; stockpiling of topsoil; trench stabilization; pipe bedding; dewatering as necessary; standard excavation; tunneling under or removing and replacing surface obstructions; discovery and protection of subsurface obstructions; shoring and bracing as required; removing and replacing surface obstructions; replacement of street surfacing (gravel or pavement) to original conditions; curb and gutter replacement; valley gutter replacement; fine grading and shaping trench bottoms; furnishing and installing pipeline bedding; concrete encasement as necessary; thrust blocking; backfilling and compaction; compaction testing; providing fill dirt as necessary; temporary surfacing (as necessary); coordinating with Owner on salvage or disposal of surplus and waste materials; flushing and disinfecting of the potable waterlines; electronic monitoring; testing; grading; notification and coordination with landowner; pipe location signs (where necessary); yard hydrant assemblies; disposal of surplus and waste materials; abandonment of existing system (after proposed system is in full service and coordinated with other contacts); and all other incidental and appurtenant work required to complete this item.

Item No. 6 “Waterline Piping by Directional Drill, PVC” will be paid for at the contract unit price per linear foot installed and measured on the centerline of the pipeline for the respective pipe size indicated on the Drawings (horizontal to existing grade—no additional length will be paid for required curvature of pipe). This item shall include all costs in connection with furnishing and installing all permanent and temporary pipe; fittings; special use fittings; caps or plugs; couplings; joint materials; seals; restrained joints and special use fittings; tracer wire; tracer wire access boxes and appurtenances as shown and specified in the contract documents; directional drilling through varying soil conditions, including unclassified soils; bore pit excavation; stockpiling of topsoil; dewatering as necessary; standard excavation; tunneling under or removing and replacing surface obstructions; discovery and protection of subsurface obstructions; bore pit excavation and over excavation; shoring and bracing as required; removing and replacing surface obstructions; street surfacing removal and replacement; curb and gutter replacement; valley gutter replacement; concrete encasement as necessary; thrust blocking; backfilling and compaction; compaction testing; providing fill dirt as necessary; temporary surfacing (as necessary); coordinating with Owner on salvage or disposal of surplus and waste materials; flushing and disinfecting of the potable waterlines; electronic monitoring; testing; grading; notification and coordination with landowner; pipe location signs (where necessary); disposal of surplus and waste materials; abandonment of existing system (after proposed system is in full service and coordinated with other contacts); and all other incidental and appurtenant work required to complete this item.

Item No. 7 “Gate Valve Assembly” will be paid for at the contract unit price for each valve installed respective to the valve size indicated on the Drawings. This item shall include all costs in connection with additional excavation and backfilling required; dewatering as necessary; discovery and protection of subsurface obstructions; removing and replacing surface obstructions; furnishing and installing valve assembly, valve box and cover; valve wrenches; shoring and bracing as required; crushed rock valve base; testing and adjusting the valve for proper operation; grading; removal and replacement of surfacing; temporary surfacing (as necessary); and all other incidental and appurtenant work required to complete this item.

Item No. 8 “Fire Hydrant Assembly” will be paid for at the contract unit price for each such assembly installed. This item shall include all costs in connection with additional standard or over-excavation required; stockpiling of topsoil; standard and compacted backfill required; dewatering as necessary; discovery and protection of subsurface obstructions; removal and replacement of surface obstructions as necessary; installing fire hydrant assembly provided by Owner (includes hydrant, gate valve, hydrant shoe/90 degree bend); piping; saddles; fittings; furnishing and installing valve box and cover; grade adjustments as necessary; blocking and porous drain; tracer wire and tracer wire test station; testing and adjusting hydrant for proper operation; grading; removal and backfill of existing hydrants;

abandonment of existing valves; and all other incidental and appurtenant work required to complete this item.

Item No. 9 "Flushing Hydrant Assembly" will be paid for at the contract unit price for each such assembly installed. This item shall include all costs in connection with additional standard or over-excavation required; stockpiling of topsoil; standard and compacted backfill required; dewatering as necessary; discovery and protection of subsurface obstructions; removal and replacement of surface obstructions as necessary; furnishing and installing flushing hydrant assembly; storage; furnishing and installing new valves for all hydrant isolations; piping; saddles; fittings; furnishing and installing box and cover; grade adjustments as necessary; blocking and porous drain; testing and adjusting hydrant for proper operation; grading; and all other incidental and appurtenant work required to complete this item.

Item No. 10 "Water Service Connection" will be paid for at the contract unit price for each such connection installed and counted in place. "Short Services" shall generally include all service connections located on the same side of the street as the new water main. "Long Services" shall generally include all service connections located on the opposite side of the street as the new water main. Long services require encasement pipe which will be subsidiary to this line item. This item shall include all costs in connection with coordinating shutdown of existing system with Owner and homeowner as necessary; boring of line from mainline to meter setting; tunneling under or removing and replacing surface obstructions; discovery and protection of subsurface obstructions; fine grading; furnishing and installing all pipe, fittings, service saddles; corporation stops; couplings, joint materials and restrained joints; connection to the proposed and existing service line; removal and replacement of surfacing or curb and gutter; concrete blocks; tracer wire; appurtenances necessary to connect to the existing water distribution system; removal and replacement of existing surfacing as necessary; temporary surfacing (as necessary); disposal of surplus and waste materials; and all incidental and appurtenant work required to complete this item including any tunneling, boring, or pushing of the service line. Abandonment of existing water service line shall be subsidiary to this item.

Item No. 11 "Connections to Existing System" will be paid for at the contract unit price for each connection. This item shall include all costs in connection with coordinating connections to new system with Owner as necessary; open trenching and over-excavation of trench; stockpiling of topsoil; trench stabilization; dewatering as necessary; standard excavation and over-excavation; tunneling under or removing and replacing surface obstructions; discovery and protection of subsurface obstructions; shoring and bracing as required; fine grading and shaping trench bottoms; pipeline bedding; furnishing and installing all pipe, fittings, special use fittings; tapping sleeve and valve assembly; line stops/temporary isolations; testing and adjusting the valves for proper operation; caps or plugs; couplings; joint materials and restrained joints; crushed rock fill; concrete blocks; tracer wire; appurtenances necessary to connect to the existing/proposed water distribution system; concrete encasement as required; any removal and replacement of surfacing (any type); thrust blocking; backfilling and compaction; grading; disposal of surplus and waste materials; grading; and all incidental and appurtenant work required to complete this item.

Item No. 12 "Existing System Abandonment" will be paid for at the contract unit price for each existing system abandonment. This item shall include all costs in connection with additional excavation and backfilling required; dewatering as necessary; discovery and protection of subsurface obstructions; removing and replacing surface obstructions; furnishing and installing temporary isolation (line stop or inserta-valve if required); operation of line stop/valve assembly as construction requires; removal of line stop/valve assembly (as required); furnishing and installing valve box and cover (as necessary); MJ Cap or Plug as detailed on Sheet C-502; coordination of temporary isolation with Owner; shoring and bracing as required; crushed rock; grading; removal and replacement of surfacing (any type); and all other incidental and appurtenant work required to complete this item. Contractor shall utilize existing valves if

they can be located and are operable. Prior to abandonment, each location shall be coordinated and approved by Owner and Engineer.

Item No. 13 "Rock Excavation" measured for payment as determined by the Engineer. Measured by the cubic yard and computed as the difference in elevation between the top and bottom of the rock multiplied by the specified trench width for the pipe size being laid (Pipe Trench Bedding Detail on C-501). Where rock is encountered in the bottom of the trench, the maximum depth for payment purposes shall be 6-inches below the bottom of pipe. Rock excavation shall consist of the removal and satisfactory disposal of all materials which cannot be excavated except by drilling, blasting, "jack hammering or hoe ramming". All boulders contained a volume of more than one-half cubic yard will be classified as rock

Item No. 14 "Insertion Valve" will be paid for at the contract unit price for each insertion valve installed respective to the valve size indicated on the Drawings. This item shall include all costs in connection with additional excavation and backfilling required; dewatering as necessary; discovery and protection of subsurface obstructions; removing and replacing surface obstructions; furnishing and installing insertion valve assembly, valve box and cover; valve wrenches; shoring and bracing as required; crushed rock valve base; testing and adjusting the valve for proper operation; grading; removal and replacement of surfacing; temporary surfacing (as necessary); and all other incidental and appurtenant work required to complete this item.

Item No. 15 "Removal and Replacement of Surfacing" will be paid for at the contract unit price per linear foot. This item shall include all costs in connection with removing and replacing surface obstructions; removal and replacement of called out surfacing disrupted by new pipeline (gravel, asphalt or concrete pavement) back to original conditions; providing fill dirt as necessary; temporary surfacing (as necessary); coordinating with Owner on salvage or disposal of surplus and waste materials; grading; notification and coordination with landowner; disposal of surplus and waste materials; and all other incidental and appurtenant work required to complete this item.

Item No. 16 "Water Service, Meter Pits & Lids" will be paid for at the contract unit price for each meter pit & lid installed and counted in place. This item shall include all costs in connection with coordinating shutdown of existing system with Owner and homeowner as necessary; stockpiling of topsoil; dewatering as necessary; standard excavation and over-excavation; backfill and compaction; discovery and protection of subsurface obstructions; shoring and bracing as required; placing of new meter pit; furnishing and installing all meter pits and lids; meter pit insulation; gravel; any additional removal and replacement of existing surfacing as necessary; testing; removal and disposal of existing meter pit material; backfill of any abandoned meter pits; matching surrounding surfacing of abandoned pits; and all other incidental and appurtenant work required to complete this item.

Item No. 17 "2-inch Splash Park Connection" will be paid for at the contract lump sum price for connection to City's splash pad 2-inch service line just upstream of the splash pad water meter pit. This item shall include all costs in connection with coordinating shutdown of existing system with Owner; trenching 2" service line from mainline and connecting to existing 2" service line just upstream of meter (approximately 20 L.F. of 2" piping); tunneling under or removing and replacing surface obstructions; discovery and protection of subsurface obstructions; fine grading; furnishing and installing all pipe, fittings, service saddles; corporation stops; couplings, joint materials and restrained joints; connection to the proposed and existing service line; removal and replacement of surfacing or curb and gutter; concrete blocks; tracer wire; appurtenances necessary to connect to the existing water distribution system; removal and replacement of existing surfacing as necessary; temporary surfacing (as necessary); disposal of surplus and waste materials; and all incidental and appurtenant work required to complete this item including any tunneling, boring, or pushing of the service line.

PART 2 - PRODUCTS – Not Used

PART 3 - EXECUTION – Not Used

END OF SECTION

SECTION 11300

METER PIT & LID

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Water Meter Accessories.

1.2 REFERENCES

- A. American National Standards Institute (ANSI), Latest Edition.
- B. American Society of Mechanical Engineers (ASME), Latest Edition.
- C. ASTM International (ASTM), Latest Edition.
- D. American Water Works Association (AWWA) Standards, Latest Edition.
- E. Factory Mutual (FM), Latest Edition.
- F. International Association of Plumbing and Mechanical Officials (IAPMO), Latest Edition.
- G. UL Standards & Engagement, Latest Edition
- H. NSF International (NSF), Latest Edition

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
 - 1. Product Data and shop drawings: .
- B. Submit under provisions of Section 01400.
 - 1. Manufacturer's Field Reports: As noted within section.

1.4 PROJECT RECORD DOCUMENTS

- A. Submit record documents under provisions of Section 01700.

1.5 OPERATION AND MAINTENANCE DATA

- A. Submit operation and maintenance data under provisions of Section 01700.

1.6 REGULATORY REQUIREMENTS

- A. Kansas Department of Health and Environment (KDHE), *Policies, General Considerations and Design Requirements for Public Water Supply Systems in Kansas*, Latest Edition.

1.7 WARRANTY

- A. Submit under provisions of Section 01700.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, and protect products under provisions of Section 01600.

PART 2 - PRODUCTS

2.1 NSF 61 PRODUCT CERTIFICATION AND THE REDUCTION OF LEAD IN DRINKING WATER ACT (2014)

- A. Compliance with the Reduction of Lead in Drinking Water Act (2014) is required, and all applicable products must meet the lead-free requirements and conform to NSF 372.
- B. All applicable products must be NSF 61 product certified.

2.2 WATER METER ACCESSORIES

- A. Meter Pit Fittings:
 - 1. Coordinate with size of service line and service meter as required by specific location.
 - 2. Coordinate inlet and outlet with existing/proposed service line type and size.
 - 3. Material: Brass
 - 4. Manufacturer:
 - a. Ford Meter Box Company, Inc., Wabash, IN.
 - b. Substitutions: Under provisions of Section 01600.
 - 5. Meter pit fittings must be NSF 61 product certified and conform to NSF 372, Reduction of Lead in Drinking Water Act (2014), as applicable.
- B. Water Meter Pit:
 - 1. 21-inch (minimum diameter):
 - a. For underground service at water meters.
 - b. Water meter pit height shall be 36 inches.
 - c. HDPE strong enough to hold incidental, non-deliberate traffic.
 - d. Meter pits shall be of high density polyethylene conforming to ASTM D3350.
- C. Water Meter Pit Frame and Cover (21-inch diameter meter pit):
 - 1. Water meter pit frame and cover shall adequately fit over meter pit.
 - 2. Service meter pit cover shall be removable cast iron or composite raised lid.
 - 3. Service meter pit cover shall be marked "WATER METER".
 - 4. Service meter pit cover shall include ability to add automatic meter reading viability through the lid. Contractor to provide waterproof plug over any antenna insert of the water meter lid.
 - 5. Manufacturer:
 - a. East Jordan Iron Works, Model 110-P, East Jordan, MI, or equal
 - b. Trumbull Manufacturing, Inc. Youngstown, OH, or equal
 - c. Substitutions: Under provisions of Section 01600.
- D. Water Meter Pit Insulation
 - 1. Easy push-in, pull-out installation.
 - 2. Be made to not absorb dirt or moisture.
 - 3. Water-proof, flexible, 2" thick tough foam.
 - 4. Insulation shall be supplied with flexible, non-conductive handle.
 - 5. Manufacturer:
 - a. Mud Plug by Infact Products, Nashville, TN. or equal.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.2 FIELD QUALITY CONTROL

- A. Reference Section 01650 for starting of systems.

END OF SECTION