

**LETTER OF TRANSMITTAL**

## TO:

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Piping Supply Company  
Walter A. Wood  
US Pipe

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FROM: Philip Schofield, P.E., Senior Project Manager

DATE: February 17, 2023

PROJ. NO.: G22021

SUBJECT: Addendum No. 1  
Supply of Materials for Project 1A WTP to Kensington, 1B Water Main to McLemore  
Conference Center  
Walker County Water & Sewerage Authority

PAGES: pages follow 10

**PLEASE  
RESPOND**

**TO CONFIRM RECEIPT OF THIS ADDENDUM NO. 1  
PLEASE SIGN AND EMAIL TO CTI  
[vvisco@ctiengr.com](mailto:vvisco@ctiengr.com)**

Company \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

## ADDENDUM NO. 1

### WALKER COUNTY WATER & SEWERAGE AUTHORITY SUPPLY OF MATERIALS NECESSARY FOR PROJECT 1A WTP TO KENSINGTON PROJECT 1B WATER MAIN TO MCLEMORE CONFERENCE CENTER AND PROJECT 4 FLARITY ROAD WATER LINE EXTENSION

The following changes shall be made to the Contract Documents, and Specifications:

#### I. CLARIFICATIONS

**A. Section 00 11 00, Advertisement.** Page 00 11 00-1.

1. The advertisement published in the Walker County Messenger and the Georgia Procurement Registry is ATTACHED.
2. The bid opening is at 2 p.m. (local time) on March 2, 2023.

#### II. CONTRACT DOCUMENTS

**A. Section 00 42 00, Bid Schedule.** Page 00 42 00-1 thru 00 42 00-3

1. DELETE Pages 00 42 00-1 thru 00 42 00-3 and REPLACE with the attached pages 00 42 00-1.1 thru 00 42 -3.1.

#### III. SPECIFICATIONS

**A. Section 33 11 06 Steel Pipe.**

1. **Section 33 11 06, Steel Pipe.** INSERT complete Section Pages 33 11 06-1 thru 33 11 06-5.

Date: February 17, 2023

CTI Engineers, Inc.  
/s/ Philip R. Schofield, P.E.  
Senior Project Manager

## ADVERTISEMENT FOR BIDS

Walker County Water & Sewerage Authority  
(Owner)

Separate sealed Bids for furnishing of all materials necessary for Project 1A WTP to Kensington, Project 1B Water Main to McLemore Conference Center, Project 4 Flarity Road Water Line Extension, will be received by the Owner at the Walker County Water & Sewerage Authority, 4655 Happy Valley Road, Flintstone, Georgia 30725, until 2:00 p.m., local time, on March 2, 2023, and then at said office publicly opened and read aloud.

The Project consists of the following major elements: The supply of materials for Project 1A WTP to Kensington Water Line, Project 1B Water Main to McLemore Conference Center Water Line and Project 4 Flarity Road Water Line Extension, in the Walker County. (Installation shall be performed under separate contract.)

Copies of the Contract Documents and Specifications, including bidding documents and requirements and Contract Drawings may be examined at the offices of the Engineer, CTI Engineers, Inc., 1122 Riverfront Parkway, Chattanooga, Tennessee 37402 (phone 423/267-7613, fax 423/267-0603, www.ctiengr.com). Copies may be obtained there upon payment of \$25.00 for each set. This payment is not refundable.

Bidders must be listed on Engineer's list of planholders who have purchased the Contract Documents, Specifications, and Drawings.

Engineer shall be provided with the following information: mailing address for U.S. Postal Service, physical delivery address, telephone number, FAX number, email address, and name of contact person.

Walker County Water & Sewerage Authority reserves the right to accept or reject any and all proposals, to waive formalities, technicalities or irregularities and to re-advertise if necessary. The contract between Walker County Water & Sewerage Authority and the selected responder shall be subject to the payment agreement drawn up between Walker County Water & Sewerage Authority and the selected responder.

Date: February 1, 2023  
February 15, 2023

Walker County Water & Sewerage Authority  
/s/ Brandon Whitley, General Manager

**BID SCHEDULE FOR UNIT PRICE  
SUPPLY OF MATERIALS FOR THE WALKER COUNTY WATER & SEWERAGE AUTHORITY  
FLARITY ROAD, MCLEMORE, & KENSINGTON  
WALKER COUNTY GEORGIA**

Notes:

1. This bid is for supply of materials only. Bidder(s) may bid on one or all schedules.
2. The Owner may award any combination of Schedules or award each schedule separately to multiple bidders.
3. Materials for Schedule I will be delivered to the owner.
4. Materials for Schedules II and III will be stored until such time that an installation contractor is selected.

ITEM NO.	DESCRIPTION	UNIT	EST. NO. OF UNITS	UNIT PRICE	TOTAL
<b>SCHEDULE I: FLARITY ROAD WATERLINE</b>					
<b>6-Inch Ductile Iron Pipe (DIP) and Fittings. DIP, Push-on, O-ring Gasketed Joint Pipe</b>					
1	6-Inch Ductile Iron Pipe (DIP)	LF	23,240		\$
2	6-Inch MJ 90 Degree Bends	EA	2		\$
3	6-Inch MJ 45 Degree Bends	EA	3		\$
4	6-Inch MJ 22 1/2 Degree Bends	EA	10		\$
5	6-Inch MJ 11 1/4 Degree Bends	EA	15		\$
6	6-Inch MJ Sleeve	EA	3		\$
7	6-Inch MJ Cap or Plug	EA	5		\$
8	6-Inch x 6-Inch MJ Tee	EA	4		\$
9	6-Inch x 6-Inch Tapping Tee	EA	4		\$
10	6-Inch Restrained Gasket (Gripper, Field Lock, Fastite, or Equal Gasket)	EA	150		\$
11	Detectable Underground Water Line Warning Tape (1000-FT Rolls)	ROLLS	24		\$
<b>Mechanical Joint (MJ) Restrained Joint Gland Kits (EBBA Megalug, Romac, Sigma, UniFlange, or Equal Wedge Restraint Devices for DIP)</b>					
12	6-Inch MJ Restrained Joint Device Kits	EA	186		\$
<b>Swivel Anchor Couplings</b>					
13	6-Inch Swivel Anchor Coupling	EA	16		\$
<b>Foster Adaptor</b>					
14	6-Inch Foster Adaptor	EA	8		\$
<b>6-inch Gate Valve</b>					
15	6-Inch MJ Gate Valve	EA	57		\$
16	Valve Marker	EA	27		\$
17	2-Piece Adjustable Cast Iron Valve Box with Lid (27" - 37")	EA	57		\$
18	24-Inch x 24-Inch Concrete Pad or 24-Inch Precast Rings (4-Inch Min. Thickness) For Valve Covers	EA	57		\$
<b>Fire Hydrant Assemblies</b>					
19	6" x 6" Swivel Anchor Tee	EA	21		\$
20	6-Inch MJ Fire Hydrant Gate Valve	EA	21		\$
21	6-Inch Ductile Iron Pipe	LF	120		\$
22	2-Piece Adjustable Cast Iron Valve Box with Lid (27" - 37")	EA	21		\$
23	24-Inch x 24-Inch Concrete Pad or 24-Inch Precast Rings (4-Inch Min. Thickness) For Valve Covers	EA	21		\$
24	6-Inch Restraint Device Kits	EA	42		\$
25	6-Inch x 18-Inch Long MJ Swivel Anchor Coupling	EA	21		\$
<b>Air Release Assemblies</b>					
26	2-Inch API S-050 Air Release Valve	EA	2		\$
27	3/4-Inch Isolation Valve	EA	2		\$
28	3/4-Inch Corporation Stop	EA	2		\$
29	2-Inch Riser and Vent Piping	EA	2		\$
30	6-Inch x 2-Inch Double Strap Saddle	EA	2		\$
31	Air Release Enclosure	EA	2		\$

ITEM NO.	DESCRIPTION	UNIT	EST. NO. OF UNITS	UNIT PRICE	TOTAL
<b>Meter Vault (See Drawing D103.00)</b>					
32	Master Meter 4-Inch Octave Ultrasonic Meter	EA	1		\$
33	Watts 4-Inch series 709 Double Check Calve Assembly or Zurn Model 350 Double Check Valve Assembly	EA	1		\$
34	4-Inch Ductile Iron Pipe	LF	20		\$
35	4-Inch Romac Dismantling Joint	EA	1		\$
36	6-Inch x 4-Inch MJ Reducer	EA	2		\$
37	6-Inch MJ Gate Valve	EA	3		\$
38	2-Piece Adjustable Cast Iron Valve Box with Lid (27" - 37")	EA	3		\$
39	6-Inch Ductile Iron Pipe (DIP)	LF	40		\$
40	6-Inch x 6-Inch MJ Tee	EA	2		\$
41	6-Inch MJ 90 Degree Bends	EA	2		\$
42	Pipe Supports	EA	3		\$
43	10-FT x 6-FT Concrete Vault	EA	1		\$
44	6-Inch Restraint Device Kits	EA	10		\$
45	4-Inch Restraint Device Kits	EA	6		\$
46	4-Inch Swivel Anchor Coupling	EA	2		\$
47	6-Inch Foster Adaptor	EA	4		\$
<b>Casing Pipe for Highway Crossings</b>					
48	12-Inch Steel Casing w/ 0.532-Inch Wall Thickness	LF	80		\$
49	Stainless Steel Casing Spacers	EA	8		\$
50	Casing End Seals	EA	2		\$
<b>Service Line</b>					
51	3/4-Inch Service Meters	EA	36		\$
52	5/8-Inch x 3/4-Inch Meter Water Service Yoke	EA	36		\$
53	Circular 15-Inch Diameter HDPE Meter Box 18-Inch Tall with Cast Iron Lid	EA	36		\$
54	6-Inch Double Strap Service Saddle w/ 3/4-Inch CC Thread	EA	36		\$
55	3/4-Inch Corporation Stop	EA	36		\$
56	3/4-Inch Lockable Curb Stop	EA	36		\$
<b>Water Service Line</b>					
57	3/4-Inch PEX Water Service Line	LF	1,000		\$
58	2-Inch HDPE Directional Drill Casing Pipe	LF	400		\$
59	Bidder acknowledges and agrees that _____ percent of the materials in Schedule I will be delivered no later than ____ days from the issuance of the Notice to Proceed. The remainder of the materials (Final Delivery) in Schedule I will be delivered no later than ____ days from the issuance of the Notice to Proceed.				
<b>TOTAL SCHEDULE I BID</b>					<b>\$</b>
<b>SCHEDULE II: MCLEMORE WATERLINE</b>					
<b>Off-Site Material Storage</b>					
1	Material Storage (as needed)	PER MONTH	12		\$
<b>8-Inch Ductile Iron Pipe (DIP) and Fittings</b>					
2	8-Inch Ductile Iron Pipe (DIP), Pressure Class 250, Push-on Joint Pipe	LF	12,650		\$
3	8-Inch MJ Gate Valve	EA	8		\$
<b>12-Inch Ductile Iron Pipe (DIP) and Fittings</b>					
4	12-Inch Ductile Iron Pipe, Pressure Class 250, Push-on Joint Pipe	LF	8,500		\$
5	12-Inch MJ Gate Valve	EA	6		\$
<b>12-Inch Steel Pipe (per Specification 33 11 06)</b>					
6	12-Inch Steel Pipe	LF	2,340		\$
<b>TOTAL SCHEDULE II BID</b>					<b>\$</b>

ITEM NO.	DESCRIPTION	UNIT	EST. NO. OF UNITS	UNIT PRICE	TOTAL
<b>SCHEDULE III: KENSINGTON WATERLINE</b>					
<b>Off-Site Material Storage</b>					
1	Material Storage (as needed)	PER MONTH	12		\$
<b>6-Inch Ductile Iron Pipe (DIP) and Fittings</b>					
2	6-Inch Ductile Iron Pipe, Pressure Class 350, Push-on Joint Pipe	LF	100		\$
3	6-Inch Gate Valve (Main Line & Fire Hydrant Gate Valves)	EA	69		\$
4	6-Inch Swivel Anchor Coupling	EA	63		\$
<b>12-Inch Ductile Iron Pipe (DIP) and Fittings</b>					
5	12-Inch Ductile Iron Pipe, Pressure Class 250, Push-on Joint Pipe	LF	28,850		\$
6	12-Inch Gate Valve	EA	30		\$
7	12-Inch X 6-Inch Anchor Tee	EA	15		\$
<b>16-Inch Ductile Iron Pipe (DIP) and Fittings</b>					
8	16-Inch Ductile Iron Pipe, Pressure Class 250, Push-on Joint Pipe	LF	32,740		\$
9	16-Inch Gate Valve with Side Operating Nut	EA	18		\$
10	16-Inch X 6-Inch Anchor Swivel Tee	EA	41		\$
<b>30-Inch Ductile Iron Pipe (DIP) and Fittings</b>					
11	30-Inch Ductile Iron Pipe (DIP), Pressure Class 250, Push-on Joint Pipe	LF	6,000		\$
12	30-Inch Ductile Iron Pipe (DIP) Factory Restrained Joint (TR Flex, HDSS, Flex Ring, or Equal Type Joint)	LF	3,340		\$
13	30-Inch Gate Valve with Side Operating Nut	EA	5		\$
14	30-Inch X 6-Inch Anchor Tee	EA	7		\$
<b>TOTAL SCHEDULE III BID</b>					<b>\$</b>
<b>BID SUMMARY</b>					
<b>SCHEDULE I: FLARITY ROAD WATERLINE BID</b>					<b>\$</b>
<b>SCHEDULE II: MCLEMORE WATERLINE BID</b>					<b>\$</b>
<b>SCHEDULE III: KENSINGTON WATERLINE BID</b>					<b>\$</b>
Bidder: _____ Date: _____					
By: _____ (Signature) Title: _____					
Address: _____					
City: _____ State: _____ Zip Code: _____					
Telephone: _____ E-Mail: _____					

## SECTION 33 11 06

### STEEL PIPE

#### PART 1 - GENERAL

##### 1.1 SCOPE OF WORK

- A. Furnish all labor, materials, equipment and incidentals required to install the welded steel water line piping as specified herein in the locations shown on the Drawings.

##### 1.2 RELATED WORK

- A. Section 33 1105, Ductile Iron Pipe and Fittings

##### 1.3 QUALIFICATIONS

- A. All pipe shall be furnished by a manufacturer who is fully experienced, reputable, and qualified in the manufacture of the items to be furnished. The equipment shall be designed, constructed, and installed in accordance with ASTM and AWWA methods and shall comply with these Specifications.

##### 1.4 SUBMITTAL

- A. Shop drawings shall be submitted to the Engineer for approval in accordance with these Specifications and shall include dimensioning and technical specification for all piping to be furnished.
- B. Submit samples of all materials specified herein to the Engineer for approval when requested.

##### 1.5 RECEIVING, HANDLING, AND STORAGE

- A. Receiving, handling, and storage of steel pipe shall be in accordance with Section 01 6500, Transportation and Handling, and Section 01 6600, Storage and Protection.

#### PART 2 - PRODUCTS

##### 2.1 MATERIALS

- A. Pipe shall be black steel having a wall thickness of 0.5 inch for 12-inch pipe conforming to the requirements of ASTM A53 Type E or S, Grade B, and AWWA C200.
- B. Pipe interior and exterior shall be abrasive cleaned to SSPC-SP-10, Near White Blast, prior to applying protective coatings.
- C. Interior lining shall be NSF approved for potable water and shall be a cement mortar lining. Materials and application shall conform to AWWA C205. Field welded joints shall be lined in accordance with AWWA C205.

- D. Exterior coating shall include two coats, including a first coat of 20 mils dry film thickness (DFT) of a mill-applied fusion-bonded epoxy and a second coat of 25 mils DFT of fusion-bonded epoxy. The materials and installation shall conform to AWWA C213. Joints shall be coated after welding with catalyzed liquid epoxy applied to a DFT of 25 mils using brush or roller.
- E. Abrasion-resistant Overcoat. As an extra abrasion-resistant barrier, the FBE coated pipe shall be overcoated with an epoxy-based polymer concrete (Powercrete). The material may be applied at a mill or with a portable yard coating machine to a minimum thickness of 40 mils. Girth weld and coating damaged areas should be field coated with an epoxy-based polymer concrete compatible with the overcoat. Patch materials shall be feathered into the original coating. An alternate material is Pipe Clad 2040, manufactured by Lilly Industries, Inc., of North Kansas City, MO, applied at 30 mils DFT.
- F. One hundred (100) percent of the exterior surface of steel pipe shall be "holiday tested." repairs to small damaged areas shall be made with a polymeric melt stick patching material. Holidays larger than 1 inch diameter shall be repaired using a two-component catalyzed liquid epoxy.

## 2.2 FITTINGS

- A. Fittings shall be smooth radius in conformance with AWWA C208.
- B. Fittings shall have same interior and exterior coating as the pipes.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Alignment and Grade. All pipe shall be laid to, and maintained at, the established lines and grades with a minimum cover of 12 inches. Fittings shall be installed at the required locations.
- B. Trench Construction
  - 1. Stockpiling Excavated Material: All excavated material shall be stockpiled in a manner that will not endanger the work.
  - 2. Trench Width: Trench width at the ground surface may vary depending on depth, type of soil, and position of surface structures. The minimum clear width of the trench, sheeted or unsheeted, measured at the springline of the pipe shall be 1 foot greater than the outside diameter of the pipe. The maximum recommended clear width of the trench at the top of the pipe is equal to the pipe outside diameter plus 2 feet. If the maximum recommended trench width must be exceeded or if the pipe is installed in a compacted embankment, then pipe embedment shall be compacted to a point of at least 2½ pipe diameters from the pipe on both sides of the pipe or to the trench walls, whichever is less.
  - 3. Dewatering: Where conditions are such that running or standing water occurs in the trench bottom or the soil in the trench bottom displays a "quick" tendency, the



water shall be removed by pumps and other suitable means (such as well points or pervious underdrain bedding) until the pipe has been installed and the backfill has been placed to a sufficient height to prevent flotation of pipe. Generally, a depth of backfill over the top of the pipe equal to 1½ pipe diameters is sufficient to prevent flotation.

4. Preparation of Trench Bottom: The trench bottom shall be constructed to provide a firm, stable, and uniform support for the full length of the pipe. Bell holes shall be provided at each joint to permit proper assembly and pipe support. Any part of the trench bottom excavated below grade shall be backfilled to grade and shall be compacted as required to provide firm pipe support. When an unstable subgrade condition is encountered that could provide inadequate pipe support, additional trench depth shall be excavated and refilled with suitable foundation material. Ledge rock, boulders, and large stones shall be removed to provide 6 inches of cushion on all sides of the pipe and accessories.
5. Laying of Pipe: To prevent damage, proper implements, tools, and equipment shall be used for placement of the pipe in the trench. Under no circumstances shall pipe or accessories be dropped into the trench. All foreign matter or dirt shall be removed from the pipe interior. Pipes shall be butt-welded in accordance with AWWA C206. When pipe laying is not in progress, open ends of installed pipe shall be closed to prevent entrance of trench water, dirt, foreign matter, or small animals into the pipeline.
6. Final Backfill: After placement and compaction of pipe embedment materials and initial backfill, the balance of backfill materials may be machined placed. The material shall contain no large stones or rocks, frozen material or debris. Proper compaction procedures shall be exercised to provide required 90 percent density, standard proctor.

#### C. Exposed Piping

1. All exposed piping shall be firmly anchored and supported by pipe supports or anchors as shown or required. Pipe supports shall be furnished as shown on the Drawings or in accordance with the requirements of these Specifications. All pipe shall be carefully placed to the proper lines and grades as shown on the Drawings.
2. Full lengths of pipe shall be used and only spliced where indicated on Drawings. Short lengths of pipe with couplings will not be permitted. Pipe shall be cut to exact measurement and shall be installed without forcing or springing.
3. The interior of all piping shall be free from obstructions and protrusions. All burrs shall be removed from the inside and outside edges of all cut pipe by reaming. Cutting shall be done in such a manner so as to leave a smooth end at right angles to pipe threads. Tool marks and unnecessary pipe threads shall be avoided. Cuttings and other foreign material shall be removed from the inside of the pipe prior to installation.

#### D. Joining of Pipe

1. All pipe to be joined using full penetration butt joint welds (unless otherwise noted on Drawing) per AWWA C206.
2. All joints will be tested by 100 percent radiograph.
3. Contractor shall furnish a certified welding inspector (CWI) in accordance with the provisions of AWS QC1.
4. All radiograph results shall be made available to the Owner's field representative for review.
5. The Owner's field representative shall be provided full access to observe all welding and testing activities. Contractor shall provide all necessary personal safety equipment for Owner's representative including safety-climbing equipment.

#### 3.2 TESTING

- A. To prevent floating of the pipe, sufficient backfill shall be placed prior to filling pipe with water and subsequent field testing. Where local conditions require that the trenches be backfilled immediately after the pipe has been laid, the testing may be carried out after backfilling has been completed, but before placement of permanent surface.

At least seven days shall elapse after the last concrete thrust or reaction blocking, if used, has been cast with normal (Type I) portland cement. The elapsed time may be reduced to three days with the use of a high-early-strength (Type III) portland cement. It is suggested that testing be conducted first on short lengths of installed pipe line, thereby permitting the installer to verify that proper installation and joint assembly techniques have been employed.

1. Filling, Drainage, and Air Relief of Mains: Water mains shall be drained through drainage branches or blow-offs. Drainage branches and blow-offs shall be provided with valves and shall be located at low points and dead ends. Drainage branches or blow-offs must not be connected to any sewer, submerged in any stream, or be installed in any other manner that can permit back siphonage into the distribution system. Lines shall be filled slowly with maximum velocity of 2 fps, preferably 1 fps, while venting all air. After filling, lines shall be flushed at hydrants, blow-offs, and dead ends at minimum velocity of 2.5 fps. Valves shall be closed very slowly to prevent surges.
2. Procedure: The following procedure is based on the assumption that the pressure and leakage tests will be performed at the same time. The specified test pressure shall be 350 psi and applied by means of a pump connected to the pipe. The test pressure shall be maintained (by additional pumping if necessary) for the specified time. While the line is under pressure, the system and all exposed pipe, fittings, valves, and hydrants shall be carefully examined for leakage. All defective elements shall be repaired or replaced and the test repeated until all visible leakage has been stopped and the allowable leakage requirements have been met.
3. Allowable Leakage: The duration of each leakage test shall be 2 hours, unless otherwise specified.

Allowable leakage shall be defined in AWWA C600. No installation shall be accepted if the leakage is greater than that determined by the following formula:

$$L = \frac{ND\sqrt{P}}{133,200}$$

Where: L = allowable leakage, gph  
N = length of pipeline tested  
D = nominal diameter of the pipe, inch  
P = average test pressure during the leakage test, psig

END OF SECTION