

**Addendum No. 3
to the Bidding Documents**

**Wright Way Sewer Pump Station Upgrade Project
Town of Ayer
Ayer, MA**

Issued August 22, 2023

Under the provisions of Article 7 of Section 00200, Instructions to Bidders, Bidders are informed that the Bidding Documents for the above mentioned Project are modified, corrected, and/or supplemented as follows. Addendum No. 3 becomes part of the Bidding Documents and Contract Documents.

Acknowledge receipt of this addendum by inserting its number on Page 00410-4, Article 5.2 of the Bid form. Failure to acknowledge receipt of the Addendum may subject the Bidder to disqualification.

Filed Sub-Bids

Results of the Filed Sub-bid Opening on August 18, 2023 are attached (1 Page).

Project Manual Changes

Item 1-1 Section 15104 – Plastic Pipe and Fittings

Add the attached Section 15104, Plastic Pipe and Fittings.

Bidding Period Questions & Responses

The following responses/clarifications are based on questions raised during the bidding period.

1. What material is the piping for the 2" flushing line? Does this piping need to be flanged?
Material shall be PVC, refer to attached Section 15104.

END OF ADDENDUM NO. 3

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Wright Way Sewer Pump Station Upgrade Project
Ayer Public Works
Ayer, MA

Electrical Filed Sub-Bid Opening
Bid Date: August 18, 2023 at 2:00 PM

Bidder	Base Bid Total	Bid may be used by any bidder <u>except</u>	Bid may <u>only</u> be used by the following	Bid Bond Provided	DCAMM Statement	Addenda No. 1 & 2 Acknowledged	Apparent Rank
Lafleur Electrical Contractor Co., Inc.	\$87,280.00	N/A	N/A	✓	✓	✓	1
Elm Electrical, Inc.	\$128,087.00	N/A	N/A	✓	✓	✓	2
Ewing Electrical Co., Inc.	\$130,419.00	N/A	N/A	✓	✓	✓	3
Fall River Electrical Associates Co., Inc.	\$131,199.00	Waterline Industries	N/A	✓	✓	✓	4
Renaud Electrical & Communications, Inc.	\$142,475.00	N/A	N/A	✓	✓	✓	5
Phillips Electric, Inc.	\$177,000.00	N/A	N/A	✓	✓	✓	6

SECTION 15104

PLASTIC PIPE AND FITTINGS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. PVC pipe and fitting
- B. Related Sections
 - 1. Section 09900 - Painting
 - 2. Section 15050 - Piping - General

1.2 REFERENCES

- A. ASTM A320 - Specification for Alloys - Steel Bolting Materials for Low-Temperature Service.
- B. ASTM D1784 - Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
- C. ASTM D1785 - Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedule 40, 80 and 120.
- D. ASTM D2564 - Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings.
- E. ASTM D2467 - Specification for Socket-Type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80.
- F. ASTM D2855 - Specification for Making Solvent - Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings.
- G. ASTM D3222 - Specifications for Unmodified Poly (Vinylidene Fluoride) (PVDF) Molding Extrusion and Coating Materials.
- H. ASTM D4101 - Specification for Propylene Plastic Injection and Extrusion Materials.
- I. ASTM F437 - Specification for Threaded Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80.
- J. ASTM F441 - Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedule 40 and 80.
- K. ASTM F493 - Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings.

1.3 SUBMITTALS

- A. Comply with the provisions of Section 15050.

1.4 QUALITY ASSURANCE

- A. Comply with the provisions of Section 15050.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Comply with the provisions of Section 15050.

PART 2 PRODUCTS

2.1 POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS

- A. Where not indicated, as a minimum, drainage and vent piping shall be Schedule 40 and pressure piping shall be Schedule 80.
- B. PVC pipe shall be manufactured from rigid, unplasticized, polyvinyl chloride compounds meeting ASTM D1784, Cell Class 12454 (formerly Type I, Grade I). The pipe shall be manufactured in accordance with ASTM D1785, PVC 1120. Pipe shall be of the sizes as shown on the Drawings.
- C. Joints shall be flanged where shown on the Drawings. Flanges shall be furnished with 1/8-inch thick full-faced gaskets which shall be of a material suitably resistant to the fluid within the respective pipelines and shall be subject to the approval of the Engineer. Flange bolts and nuts shall be ASTM A320, Type 304, stainless steel, Grade B8.

2.2 FINISHES

- A. Exterior of pipe shall be primed and finish painted in accordance with Section 15050 and Section 09900.

PART 3 EXECUTION

3.1 PREPARATION

- A. Pipe surface preparation shall be the work of this Section and shall be performed in accordance with Section 09900.

3.2 INSTALLATION

- A. Comply with the provisions of Section 15050.
- B. Joints for PVC and CPVC pipe shall be solvent welded except flanged or threaded where required. In making solvent welded connections, clean dirt and moisture from pipe and fittings, bevel pipe ends slightly with emery cloth, if necessary, and apply solvent cement of the proper grade. Solvent welded joints shall be made in accordance with ASTM D-2855. In making solvent weld connections, the solvent shall not be spilled on valves or allowed to run from joints.
- C. Particular care shall be taken not to overstress threaded connections.
- D. All plastic pipe to metal pipe connections shall be made using flanged connections. Metal piping shall not be threaded into plastic fittings, valves, or couplings nor shall plastic piping be threaded into metal valves, fittings or couplings. Only socket to thread adapters shall be used for threaded connections.

3.3 FIELD QUALITY CONTROL

- A. All pipelines shall remain undisturbed for 24 hours to develop complete strength at all joints. All pipelines shall be flushed clean and then subjected to a hydrostatic pressure test for 4 hours at a test pressure specified below. All leaks shall be repaired and lines retested as approved by the Engineer. Prior to testing, the pipelines shall be supported in an approved manner to prevent movement during tests.
- B. Comply with the provisions of Section 15050.
- C. Plastic piping shall be pressure tested at a test pressure specified below. Test pressure shall be maintained with no loss in pressure for a period of 4 hours minimum.
- D. The test pressures for the various pipe lines shall be as follows:
 - 1. Chemical feed piping 150 psi
 - 2. Drain & vent piping 15 psi
 - 3. Water piping 150 psi

END OF SECTION

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