

ADDENDUM NO. 1**PROJECT: PHASE A INFRASTRUCTURE IMPROVEMENTS**

To: Prospective Bidders of Record

Date: October 12, 2017

The following changes, additions, revisions, and/or deletions are hereby made a part of the Contract Documents for the aforementioned Project as fully and completely as if the same were fully set forth therein:

A. PART 1 – CONTRACT REQUIREMENTS

1. Section EJCDC C-111, Advertisement: REPLACE the third paragraph with the following:

“Bids will be received for a single prime Contract. Bids shall be on a lump sum basis as indicated on the Bid Form. All work shall be substantially complete within 252 calendar days after the date when the Contract Times commence to run, and completed and ready for final payment within 282 calendar days after the date when the Contract Times commence to run. Liquidated damages shall be \$500 per day.”

2. Section EJCDC C-520, Agreement, Para. 4.01.B: REPLACE “210 days” with “252 days”.
3. Section EJCDC C-520, Agreement, Para. 4.01.B: REPLACE “240 days” with “282 days”.
4. Section EJCDC C-520, Agreement, Para. 4.02.A.1&2: REPLACE “1,000 for each day” with “500 for each day”.

B. PART 2 – SPECIFICATIONS

1. Section 02510, para. 2.2.A.6: REPLACE with the following:

“For ductile iron pipe buried in the ground, the minimum thickness shall be Class 52 for pipe sizes up to 12-inch, and thickness Class 51 for 16-inch size. Ductile iron pipe installed above ground or inside underground structures shall be thickness Class 53.”

2. Section 13400, Para. 2.10: ADD the following new paragraph:

“2.10 MAGNETIC FLOW METER

- A. Provide a magnetic flow meter where indicated to measure water flow as follows:

1. Materials of construction:
 - a. Metering Tube: Lined 304 Stainless Steel.
 - b. Body: Epoxy coated steel.
 - c. Flanges: Carbon Steel.
 - d. Electrodes: 316 SST.
 - e. Liner: PTFE, hard rubber, or Polyurethane.
 - f. Wetted parts compatible with potable water.
2. Process connection: ANSI Class 150 flanges.
3. Output signal: 4-20 mAdc capable of transmission into at least a 750 ohm load at 24 vdc, linear with flow, automatic zero and adjustable low flow cutoff.
4. Operating temperatures:
 - a. Process fluid: Up to 170°F.
 - b. Ambient: -4 to + 140°F.
5. Accuracy: 0.5-percent of flow rate, or better above 1 fps. Calibrated in a NIST traceable lab.
6. Repeatability: 0.01-percent of full scale.
7. Rangeability: 33 to 1, or better.
8. Integral dampening: Yes.
9. Meter Body Enclosure rating:
 - a. NEMA 4X
10. Power supply: 120 VAC.
11. Signal converter:
 - a. Remote with 4-20 ma output of flow rate.
 - b. With LCD indicator, programming buttons, and conduit entries.
12. Cables: Provide cables between metering tube and converter as required.
13. Coil excitation: DC.
14. Grounding rings: Provide grounding rings for each magnetic flow meter.
15. Electrodes: 316 Stainless Steel. Hot tap removable.

B. Manufacturer and model number:

Sparling FM-656 or approved equal.”

3. Section 13121, Para. 1.1.E: ADD the following new paragraph:

- “E. Contractor shall be responsible for rigging and off-loading of the pump station buildings and generators to be shipped from Vendor. The Contractor shall obtain written verification of final building weights from Vendor prior to delivery. Preliminary weights are estimated by Vendor as follows:

1. Pikeside Booster Pump Station: 37,000 lbs
2. Gerrardstown Booster Pump Station: 25,000 lbs”

4. Section 15120, Para. 2.2.E: DELETE this paragraph.

5. Section 15120, Para. 2.2.H: REPLACE with the following:

“All 16-inch gate valves buried in the ground shall be installed horizontally with enclosed bevel-type gear cases and non-rising stems (NRS). See BCPSWD Developer Policy, Procedures and Standards for Water Systems for additional requirements and approved manufacturers.”

6. Section 16010, Basic Electrical Requirements, Para. 1.5: ADD the following to the existing paragraph:

"The Owner will pay the First Energy electric service fees and aides to construction for permanent electric service to the project sites. Application for, all fees, and associated charges for temporary construction electric service will be borne by the Construction Contractor. "

C. PART 3 –DRAWINGS

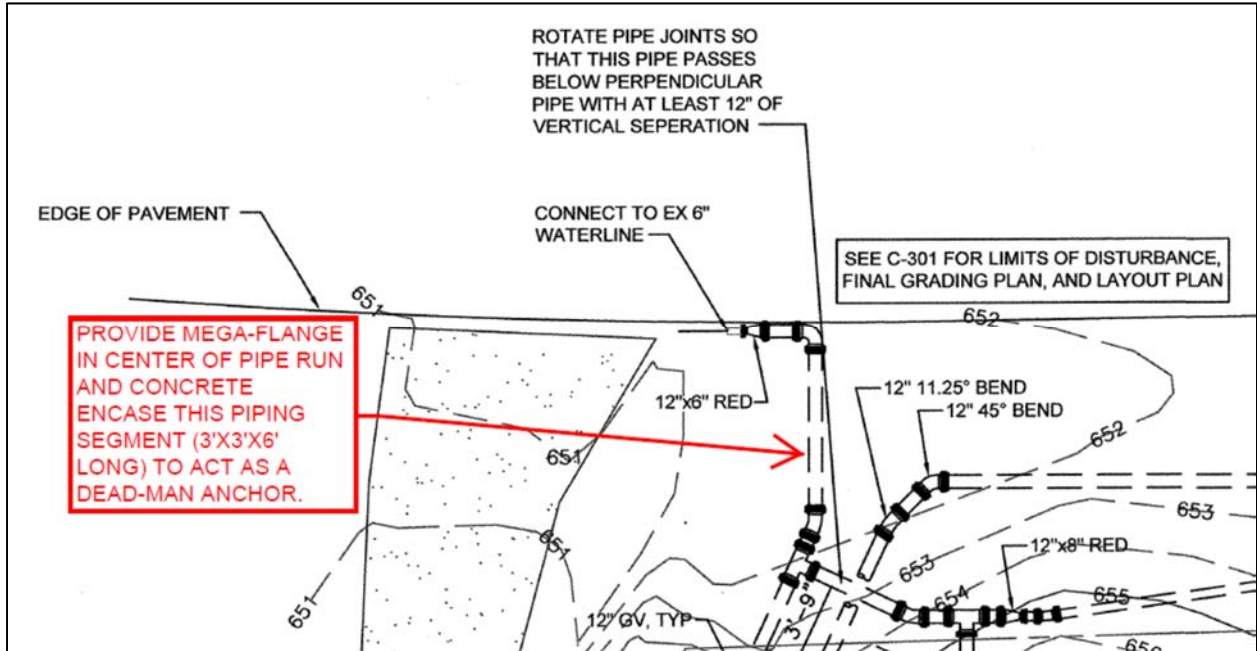
1. C-201, Existing Pikeside Site Plan Rehabilitation, Demolition and Removal Notes: REVISE Note 4 as follows:

“SALVAGE THE CIRCULAR VAULT TOP WITH INTEGRAL HATCH AND DELIVER TO OWNER-SPECIFIED LOCATION IN BERKELEY COUNTY. VAULT RISER AND BASE SHALL BE DEMOLISHED.”

2. C-201, Existing Pikeside Site Plan Rehabilitation, Modified Piping Layout, Notes (in center of Drawing): REVISE Note 4 as follows:

“OWNER SHALL FURNISH NEW METER ASSEMBLY FOR INSTALLATION BY CONTRACTOR. METER ASSEMBLY LAY LENGTH IS 53 INCHES.”

3. C-300, Gerrardstown Site Plan, Site Plan (right-side of Drawing): ADD the following call-out note for a dead-man anchor as shown in red text below:



4. I-4, I/O Schedules: ADD the following to the Blairton Pump Station Field Wired I/O Schedule:

“Device Description:

Pump Check Valve Position Switch (Typ for 3)

Switch Position

System Process

Pumping

I/O Signal Type

DO

Controller Interface

RTU

From

Check Valve Limit Switch

To

RTU

With

2#14, 3 /4” C.

To SCADA Master

Pump Flow Fail

END OF ADDENDUM NO. 1

WRITTEN QUESTIONS FROM BIDDERS AND ANSWERS

The following questions and the *answers* by the Owner are for informational purposes only and are not considered part of the Contract Documents. These questions are those received by the Owner through October 11, 2017. The information provided below shall not modify or amend the Contract Documents.

1. The Specification Book is not clear if Engineered Fluid Inc. is not only providing the major components but also installing them, i.e., pumps, electric, piping, etc. Would we provide the foundation and the pipes plumbed through the floor?

A1: See the Vendor Reviewed Shop Drawings and the Vendor Agreement under Appendix A. The Vendor Agreement (Contract No. 2017-001) at the Bill of Materials and Services (PDF page 526 of 659 in the Specifications) states: Manufacture, factory test, deliver and commission one (1) factory built Water-Shed Booster Pump Station complete, fully assembled in EFI's modular building attached to a structural steel base ... Yes, the Contractor would provide the foundation and the suction and discharge piping into the building.

2. Can the existing City Meter Vault (shown on Sheet C-201) be demolished instead of being returned to the Owner?

A2: See clarification provided via Addendum No. 1.

3. Will the Owner apply for and pay for all new electric services of drops?

A3: See clarifications provided via Addendum No. 1.

4. After reading the pre-negotiated agreement between the Water District and Engineered Fluid, Inc., EFI has up to 5 months to deliver their materials and equipment with liquidated damages of only \$150.00. The General Contractor only has 7 months to complete the entire project with \$1,000.00 per day liquidated damages. In my opinion, there does not seem to be enough time for the General Contractor to complete his work. Can more time be allowed for the General Contractor to complete his work? Also, it doesn't seem fair that the General Contractor is subject to higher liquidated damages than EFI (especially since they are such a big factor for completion of the project). Can the

liquidated damages for the General Contractor be adjusted to match EFI's (\$150.00) or will EFI agree to the General Contractor's purchase order bounding them to \$1,000.00 per day liquidated damages without a price increase?

A4: See Clarifications provided via Addendum No. 1 on Contract Time and Liquidated Damages. EFI will likely not agree to higher liquidated damages.

5. It is the General Contractor's responsibility to unload EFI's Booster Pump Stations, what is the weight of the heaviest pick for each station?

A5: See Clarifications provided via Addendum No. 1.

6. Please confirm if concrete structures may be designed to 4000 psi concrete & constructed using 4500 psi concrete.

A6: Concrete mix designs and/or substitution requests shall be submitted to the Engineer for review after Award. The design compressive strength requirements on the Drawings are minimum requirements.

7. On the PRV vaults, BCPSWD is picking up the by-pass piping and we are only connecting to the proposed new valves, correct?

A7: Referring to Sheets C-400 and C-401, BCPSWD will provide the vault bypass piping as shown and Contractor shall connect to valves as shown, provide the inter-connecting piping, vault, SCADA and electrical as shown on the Drawings and as Specified.

8. Could you provide a detailed specification for the 12" mag-meter required (at Blairton) for this project?

A8: See Specification added via Addendum No. 1.

END OF WRITTEN QUESTIONS AND ANSWERS