

**ADDENDUM NO. 3
NEW WATER TREATMENT PLANT CLARIFIER
PROJECT NO. 24-01**

February 7, 2024

Bids for the construction of the Project will be received at the **Town of Emmitsburg** located at **300A South Seton Ave., Emmitsburg, MD 21727**, until **Wednesday, February 28, 2024 at 4:00 P.M.** local time (EST). The time and date of receipt by the Owner shall be stamped or handwritten on the outside of the bid proposal package by the Owner upon receipt. Bids shall remain unopened until Thursday, February 29, 2024 at 11:00 A.M. At that time the Bids received will be **publicly** opened and read.

The Project includes the following Work:

Furnishing all labor, materials, equipment and performance of work for construction of the new Water Treatment Plant Clarifier.

Owner anticipates that the Project's total bid price will be approximately \$2.0 Million - \$2.5 Million.

The Project has an expected duration of 360 days.

A non-mandatory Pre-Bid Conference was conducted for the New Water Treatment Plant Clarifier project on January 24, 2024 at 10:00 AM, at the water treatment plant located at 8585 Crystal Fountain Road, Emmitsburg, Maryland. Several questions were presented at the meeting and will be answered in subsequent addenda as the questions are officially received in writing.

Revisions to Contract Drawings:

- 1. Signed and sealed construction drawings are hereby re-issued for bid purposes as part of Addendum No. 3.**

Revisions to Specifications:

Section 16920, Instrumentation, ADD Paragraph 2.01.E as follows:

E. Turbidimeters:

1. Furnish and install one turbidimeter and controller to monitor the turbidity of the DAF influent raw water flow, and two individual turbidimeters to monitor the turbidity of the clarified effluent from each DAF. A single controller shall be provided for the DAF effluent turbidimeters.
2. The turbidimeter shall be a microprocessor-based, continuous reading, on-line nephelometric instrument that shall continuously measure the turbidity of the sampled water. The turbidimeter shall meet all design and performance criteria specified by USEPA method 180.1.

3. The turbidity monitoring system shall consist of a turbidimeter and an electronic controller. Connections between the turbidimeter and the controller shall be plug and play. Provide 25 feet of interconnecting cable for each turbidimeter.
4. Light shall be directed through the surface of the sample and the detector shall be immersed in the sample, eliminating glass windows and flow cells. Optical components shall be mounted in a sealed head assembly that can be removed for calibration and service without disturbing the sample flow.
5. The turbidimeter body shall be constructed of corrosion-resistant polystyrene. The turbidimeter shall include an internal bubble removal system to vent entrained air from the sample stream.
6. The turbidimeter shall offer the choice of formazin-based (20 or 1 NTU) or instrument comparison-based calibration methods.
7. The turbidimeter shall measure turbidity in the range of 0-700 NTU. Accuracy shall be $\pm 2\%$ of reading plus 0.01 NTU from 0 to 40 NTU.
8. Displayed resolution shall be 0.0001 NTU.
9. Repeatability shall be better than $\pm 1.0\%$ of reading or ± 0.002 NTU, whichever is greater.
10. The turbidimeter shall be provided with user selectable signal averaging, bubble removal, alarm and recorder output hold, and self-test diagnostics.
11. Each turbidimeter shall be furnished with a sample inlet fitting and a drain fitting. Provide all sample and drain piping for each turbidimeter.
12. The controller shall allow operators to control sensor and interface functions with a user-friendly, menu-driven software. The controller shall be capable of data logging, with the data being able to be downloaded to a flash drive. The controller shall be housed in a NEMA 4X enclosure suitable for wall mounting.
13. The controller shall operate on 120 volt, 1 phase power and shall be furnished with a power cord.
14. The controller shall be capable of outputting a 4-20mA dc signal proportional to the turbidity.
15. The turbidimeters shall be a Hach TU5300sc Low Range Laser Turbidimeter with a 4500sc Controller. One controller shall be provided for the DAF influent turbidimeter, and one controller shall be provided for the two DAF effluent turbidimeters.

SCHEDULE OF TURBIDIMETERS

<u>Location</u>	<u>Range</u>	<u>Service</u>
DAF Influent	0.5 - 100 NTU	Raw Water Turbidity
DAF No. 1 Effluent	0.5 - 100 NTU	DAF No. 1 Effluent Turbidity
DAF No. 2 Effluent	0.5 - 100 NTU	DAF No. 2 Effluent Turbidity

Questions from Bidders:

1. Advertisement for Bids, page 2, American Iron and Steel is listed. However, Instructions to Bidders, page 12 of 12, Article 23.03 the AIS is stricken. Please clarify if AIS applies.

Response: No, the AIS requirement does not apply for this project.

2. Specification section 11500, 2.01.A.2.a states any changes to the arrangement indicated on plans and specs, or redesign by the Engineer would be at the expense of the Contractor. We assume this to mean only if the Contractor makes/requests the changes during a substitution. Please clarify.

Response: Yes, this should read "redesign by the Contractor" not the engineer.

3. Appendix B – DAF System Proposal.
 - a. Line item 3.9 lists a compressor for \$16,600. There is an Extra Adder in the amount of \$13,200 for the Quiet Air Compressor. Is this Extra to be included in the bid?

Response: A quiet compressor is not necessary or required. Contractors should not include the price for a quiet compressor in their bids.

- b. Line item 3.10 lists on-site mechanical services. Specification section 11500-3.03.A notes (3) 8 hours days on-site during installation, start-up, and performance demonstration. However, 11500-3.03.C notes (72) hours of continuous operation by the manufacturer and 3.04 states (6) hours of training. Please clarify the number of days and number of visits expected to be provided by the DAF manufacturer.

Response: Contractors shall include in their bid three (3) 8-hour days (24 hours) of on-site training and startup services by at least one qualified technical representative of the DAF manufacturer. The 24 hours of on-site services shall be exclusive of travel time to and from the site. The three (3) days of on-site services by the DAF manufacturer may or may not be performed consecutively depending on conditions during startup.

4. Specification section 15080-2.01.C states valve flanges shall conform to ANSI B16.10, (125# and 250# class) as applicable. Specification section 15060 doesn't list a class flange to be provided. Confirm the ductile iron pipe and valve flanges to be 125# or 250#.

Response: Ductile iron pipe flanges shall be pressure rated for 250 pounds. PVC and CPVC pipe flanges shall be rated for 150 pounds.

5. Specification section 15080 – Provide a spec for the 6” flow control valve to be installed in the 6” raw water influent line.
Response: Valve shall be a CLA-VAL 131, Singer 106 electronic control valve or approved equal. See manufacturer’s catalog excerpt attached.
6. Confirm if there is any off-site systems integration required.
Response: Off-site systems integration is not required.
7. The wage rate sheets in the specs do not have Electrician listed, will a new wage rate sheets be issued?
Response: An updated Prevailing Wage Rate Table (Building) dated February 5, 2024 is attached which includes prevailing rates for the category Electrician. The wage and fringe rates may change between the time of issuance of the wage determinations and the date of the bid. Therefore, prior to submitting bid, bidders should verify on the Maryland Department of Labor website that the rates contained in this determination are still prevailing.
8. On drawing E-01 the power company pole is not shown, we need to know how far to run the underground utility duct bank.
Response: The new electric service pole has been shown on Drawing E-01, approximate length of duct bank is 175-FT. (See revised Drawing E-01 attached.)
9. Please confirm that Potomac Edison is the local power company.
Response: Yes, the local power company is Potomac Edison, a First Energy Company.
10. Drawing E-02 note 2 calls for panel c to be installed in a NEMA 4x stainless steel enclosure. On drawing E-04 note 2 calls for panel c to be installed in a fiberglass enclosure. Which type enclosure is to be used?
Response: The note on Drawing E-04 has been revised and Panel C shall be mounted in a NEMA 4X, Stainless Steel enclosure. (See revised Drawing E-04 attached.)
11. Drawing E-03 note 1 calls for all conduit in the building to be rigid aluminum, drawing E-04 note 1 calls for all conduit to be PVC coated rigid. Which conduit type is to be used in the building?
Response: The note on Drawing E-04 has been revised to require that the conduit be rigid aluminum. (See revised Drawing E-04 attached.)
12. PM-01, Note 2 shows PVC wafer style butterfly valves. Specification section 15080-2.06.A specified metal bodied for water service. 2.06.B may be a PVC valve but is noted for chemical service. Which specification is to be used for the valves as shown on page PM-01?
Response: Specification section 15080-2.06.B shall be labeled “ PVC Bodies for Water Service”. Butterfly valves (BFV) shall be of similar material to the surrounding pipe material. (e.g.: DIP - DI/CI BFV, PVC pipe - PVC BFV)
13. PM-01, Note 3 shoes(*sic*) a basket strainer. Specification section 15080-2.09 lists an in-line Y-Strainer. Which specification is to be used for this strainer shown on PM-01?

Response: Strainer is to be a Basket Strainer. Basis of design is an Eaton Model 72 simplex strainer. See manufacturer's catalog excerpt attached.

14. Specs and plans do not provide make/model for floor cleanout and floor drain. We assume the make/model for these plumbing items is the contractor's choice?

Response: Yes. Where make/model are not specifically identified, Contractor to supply good building materials and items to meet relevant specifications.

15. Is this project prevailing wage? If so, can wage rates be provided?

Response: See response to Question 7 above. An updated Prevailing Wage Rate Table (Building) dated February 5, 2024 is attached.

16. Drawings call for 12" insulated splitface CMU. The specs do not call out a product, manufacturer, or R rating. Usually in these buildings, we are using High R insulated CMU. Please confirm that is what they want. If so, is York Building Products an approved manufacturer.

Response: The walls need to be insulated to meet an R-24 rating. York Building Products is an acceptable manufacturer. (See revised Architectural Drawings attached.)