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ADDENDUM No. TWO

Date: June 9, 2025

Project: Pembroke WWTP Expansion, MES No. 2020-48

Engineer: M.E. Sack Engineering
Hinesville, Georgia

The original plans, specifications, and bid documents shall be replaced in their entirety with the enclosed revised bid package. The updated bid package contains several revisions including, but not limited to, the following:

Advertisement for Request for Proposals:

- The bid date has changed from July 1, 2025 to July 10, 2025.

Instructions to Offerors:

- The bid date and the schedule for the events following has changed.

Proposal Submission Form:

- The Submission Deadline was revised.

Specifications:

- **Section 01150 Measurement and Payment** - revisions were made to item 2.02 to include the plug and seal of the existing water well and the removal of the water and sewer line of the existing carport and storage building. Item 2.12 was revised to include a clarification on the water works scope.

- **Section 13300 Instrumentation and Control for Process Systems** - revisions were made to the approved PICS that changed to “shall be Control Instruments, Inc. Smyrna, Georgia (404) 351-1085”. Other options were removed.

- **Section 13310 Programmable Logic Controllers** - revisions were made to the approved PLC Brand, Rockwell Allen-Bradley in lieu of Modicon.
- **Section 13321 Uninterruptible Power Systems** - revisions were made to add rack-mount UPS and Battery Pack.
- **Section 13330 Computer Equipment** - revisions were made to add rack-mount server Dell R-Series.
- **Section 13301 Pre-Qualification process control and Instrumentation Systems** - REMOVED
- **Section 14010 Stainless Steel Process Pipe** – added to the Specification Book.
- Part **E. Electrical** – replaced in its entirety.
- Part **F. Piping** – added to the Specification Book.
- Part **G. Mechanical (HVAC)** – added to the Specification Book.
- **Table of Contents** - **Section 13301** was removed, **Section** 14010 was added, and parts **F. Piping** and **G. Mechanical (HVAC)** were added.
- **Section 15561 Steel Tank Tertiary Filter** - revisions were made to the following parts:

Part 2.01.A	The filter model changes to ADFSP54x4EPC in lieu of ADFP54x4EPC and the cloth to PES-13 in lieu of PA2-13 in order to use the current standard model.
Part 2.09.A	The manually operated flow control gate valves for each pump should be 3" in lieu of 2"
Part 2.10.A	There should be two 2” backwash valve in lieu of one valve.
Part 2.17.A	The total turbidity meters were increase to four in lieu of three. One common influent, one dedicated effluent (per filter), and one common effluent.
Part 2.18	Two control panels are required instead of three. One panel per filter unit.

- **Section 15570 SBR Equipment** - revisions were made to the following parts:

Part 2.10.A	The mooring type has change to pivotal mooring in lieu of cable and three (3) mooring points in lieu of 2.

Part 2.12.A	The standard junction box rating to be NEMA 4X for outdoor use in lieu of NEMA 7.
Part 2.19.A	Airflow required was revised. 599 SCFM is required in lieu of 577 SCFM.
Part 2.30.A	The airflow required to mix the post-eq is 177 SCFM in lieu of 263 SCFM.
Part 2.37.A	The SCFM required per blower is 177 SCFM in lieu of 170 SCFM.
Part 2.39.A	Pump flow rate to be 450 GPM in lieu of 480 GPM to reach full equalization
Part 2.69	Detail
Part 3.03, 3.04, 3.05	Clarification added. Items to be supplied by the contractor.

Plans:

- Revisions to the plan set include but may not be limited to the following:

Sheet G1	Index was updated with the revised electrical plans section.
Sheet G4	Plug and seal of the existing 4” well and the removal of the water and sewer line of the existing carport and storage building were included.
Sheet G5	Gate Valves were replaced with Plug Valves.
Sheet G9	Disk filters were replaced with the new standard Disk Filter Model
Sheet C1	A note regarding the installation of corporation stop for the NPRL laterals was added.
Sheet C2	A clean out at every 90° bend on the drain line from the truck dump to the Reject PS were added.
Sheet C17	The drain line size from the truck dump to the Reject PS (4” line) was corrected.
Sheet M6	Gate Valves were replaced with Plug Valves.
Sheet M9	Elevation of the SBR influent pipe was adjusted.
Sheet M11	correct Material of the 2” NPRL along the SBR tank was corrected (PVC Sch80 in lieu of Ductile Iron) and the elevation of the SBR influent pipe was adjusted.

Sheet M15 Disk filters were replaced with the new standard Disk Filter Model.

Sheet M18 Effluent flow meter added to the discharge line.

Sheet M23 4” pipe joint requirement was added.

Sheet M26 Elevation of the SBR influent pipe was adjusted.

Sheets E1.0 to E12.2 Updated with the new electrical specifications provided.

Sheets ME1 to P4 Updated with the new electrical specifications provided.

The following clarifications are offered for questions received:

1. *Many of the valves shown with extension stems inside and outside the SBR are shown to the lower level of the concrete walkways. Should these actuators be up to the level of the handrail so the operators don't have to lay on the walkway to operate them?*

    - The actuators need to be up to the level of the handrail.

2. *Air pipe note #14 provides expansion joint requirements for 3" & 6". What are the requirements for the 4" pipe shown?*

    - For the 4” pipe, the joint requirements will be RESISTOFLEX # R6905-064WS3 – Convolute Expansion Joint Every 30'.

3. *For the air line expansion joints. Should they be SST bellows type or rubber?*

    - It must be Stainless Steel Bellows type expansion joints.

4. *Can Grundfos be considered as an approved manufacturer for the chemical feed system?*

    - Yes, Grundfos is considered an approved manufacturer.

5. *The SBR drainpipe & fittings are called out to be ductile iron on sheet M11 whereas they are called out to be PVC on sheet C2.*

    - The drainpipe, fittings and the valve is intended to be Ductile Iron, after the valve box including the downstream 8” drain, it transitions to PVC.

6. *The SBR drain valves are shown in a small vault with a hand wheel. The vault does not appear large enough for a person to get inside to turn the valve. Should these valves have a std valve box with extension stem?*

    - Consider standard valve box with extension stem.

7. *Sheet M3 indicates a Stainless Steel manual bar screen with ½" opening and drying rack. Please provide a detail of the required screen and advise if it is to be 304 or 316 Stainless Steel?*

    - Section 15540 includes the specifications for the manual screen bar. The material of the frame, bars and rake must be 304 Stainless Steel.

8. *Please confirm the material and finish for the stairs, landings, platforms, grating and handrail for the project. The documents include specifications for metal stairs, aluminum handrail, aluminum grating and aluminum platforms. The drawings indicate steel grating in various locations but the material for the framework and support isn't noted.*

    - Aluminum should be considered.

9. *The drawings calls out several butterflies valves for the project. However, in the specifications section 15561 part 2.10 B states that butterfly valves will not be approved because of fouling that can be caused by stringy material. Can this be clarified?*

    - Section 15561 of the specifications books applies only to the Steel Tank Tertiary Filtration.

10. *Can EcoVerde be considered as an approved manufacturer for the odor control system?*

    - Yes, EcoVerde is considered an approved manufacturer.

11. *Can Grundfoss be considered as an approved manufacturer for the Chemical Feed System?*

    - Yes, Grundfoss is considered an approved manufacturer.

12. *Section 02650.2.08.D.1 indicates "gate valves should not be used in raw sewage applications", however several gate valves are shown on sewer force main lines/applications. Should these callouts be ignored and plug valves used instead?*

    - Plug valves should be used except for SBR Influent and Effluent. The plan set was updated with the right valve type.

13. *What bid item should be used for the potable water works?*

    - The potable water works should be considered in the item "**COMPLETE SBR SYSTEM-BASED TREATMENT PLANT**". Section 01150 was updated to clarify the scope of the bid item.

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