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ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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## ADDENDUM NO. 2

### FLAT ROCK PUMP STATION REPLACEMENT

### OCONEE JOINT REGIONAL SEWER AUTHORITY

**KCI Project No. 962205803**

**Date: July 13, 2023**

#### **TO: ALL HOLDERS OF RECORD OF CONTRACT DOCUMENTS**

Acknowledge receipt of this addendum by inserting its number and date in the Bid Form. Failure to do so may subject bidder to disqualification.

The following revisions and/or additions to the Drawings and Contract Documents are hereby made a part of same and shall be incorporated in the Work of the Contract the same as if originally included in the Construction Documents. This addendum modifies them as follows:

#### **Questions and Clarifications:**

1. Can you confirm how much upstream forcemain will have to be drained in order to install the bypass connection?

**Answer:** The existing 6-inch forcemain is approximately 2,400 feet in length to the high point, which will require approximately 3,525 gallons of water to be drained.

2. Is the contractor responsible for pumping and hauling this drained wastewater from the forcemain?

**Answer:** Yes, the contractor will be responsible for either storing or pumping / hauling the wastewater. If this connection is done during the morning on a dry weather day, there may be available storage capacity in the upstream gravity sewer. This will need to be coordinated with OJRSA during construction.

3. Are the proposed concrete pipe supports in the valve vault only to be installed under the proposed tees?

**Answer:** Yes, two pipe supports are proposed, one under each tee.

4. Please define the clearing and grubbing area.

**Answer:** There are no set clearing and grubbing limits for this project, just the amount needed for the new fencing installation and any erosion / sediment control devices required.

5. Is the alternate for the wetwell lining in addition to the OBIC lining or would that replace the OBIC lining?

**Answer:** Alternate A-1 is for a standard epoxy coating, the OBIC coating has been removed as a requirement from this project, but can still be used as an or equal product if desired.

6. Do you have an estimated weight for removing the top layer of the pump structure?

**Answer:** Our best estimate is that the top of the building weighs 30 tons. This is assuming that the generator, panels, vent equipment, etc. are all removed. If the roof can be taken off separately, that weight could be reduced a bit.

### **Contract Documents and Specifications:**

#### **1. Section 16260 (Standby Electric Power System)**

- A. Revise paragraph 1.1.A.9 by removing "in accordance with 16400".

#### **2. Section 16260 (Standby Electric Power System)**

- A. Add the following to the specification:

#### **2.8 - AUTOMATIC & MANUAL TRANSFER SWITCH**

- A. Applicable standards:

1. UL 1008: Standard for Automatic Transfer Switches.
2. NFPA 70: National Electrical Code.
3. NFPA 99: Essential Electrical Systems for Health Care Facilities.
4. NFPA 110: Emergency and Standby Power Systems.
5. IEEE 446: IEEE Recommended Practice for Emergency and Standby Power Systems for Commercial and Industrial Applications.
6. NEMA ICS10-1993: AC Automatic Transfer Switches.

- B. Acceptable manufacturers:

1. Automatic Transfer Switch
  - a. American Switch Company (ASCO).
  - b. Caterpillar.
  - c. Or approved equal.
2. Manual Transfer Switch
  - a. Trystar TMTS-1.
  - b. Or approved equal.

- C. The following specifications are based on the ACSO 300 series power transfer switch and should be considered as a minimum for features and quality.
- D. Provide a stand-alone automatic transfer switch rated for 277/480 volt, 3-phase, 4-wire, wye, 60 Hz. Provide unit enclosures as shown on drawings with NEMA 4X stainless steel enclosure.
- E. Provide switch as true double throw, mechanically held, electrically operated, utilizing a reliable field proven, single-solenoid operator with contacts easily accessible for inspection and preventive maintenance.
- F. Provide 3 pole switch with solid neutral as shown on drawings.
- G. Provide amperage and voltage ratings as shown on drawings.
- H. Provide the following features:
  - 1. Microprocessor Controls.
  - 2. Optically isolated RS-485 Serial Communication Interface.
  - 3. Open transition.
  - 4. Selective Load Disconnect.
  - 5. Engine Exerciser.
  - 6. Solid Neutral.
  - 7. Switch Position Lights.
  - 8. Source Availability Lights.
  - 9. Test Switch.
  - 10. Time Delay Bypass Switch.
  - 11. One (1) NO and one (1) NC Contacts Rated 10 amps 250VAC.
  - 12. 60 or 50 Hz Selectable.
  - 13. 3 phase or 1 phase Selectable.
  - 14. Two (2) NO and two (2) NC Auxiliary Contacts.
  - 15. Manual Transfer Option.
  - 16. Strip Heater with Thermostat.
  - 17. Serial Communication Board.
  - 18. Deluxe Exerciser.
  - 19. Time Delay Adjustments:
    - 20. Override Momentary Normal Outage - 1-3 Seconds.
    - 21. Transfer to Emergency - 0-5 Minutes.
    - 22. Override Momentary Emergency Outage - 4 Seconds.
    - 23. Retransfer to Normal - 1 Second – 30 Minutes.
    - 24. Unloaded Running Time Cool Down - 5 Minutes.
- I. Voltage and Frequency Settings:
  - a. Normal Source Voltage:
    - 1) PU - 90%-95%.
    - 2) DO - 70%-85%.
  - b. Emergency Source Voltage:
    - 1) PU - 90%.
    - 2) DO - 75%.
  - c. Emergency Source Frequency:
    - 1) PU - 95%.
    - 2) DO - 85%.
- J. Switch manufacturer shall maintain a full time service center located within 150 miles of job site location for warranty and non-warranty repair.
- K. Provide a 200A, 480V, Trystar TMTS-1 manual transfer switch as shown on the project drawings.

**Plans:**

**1. Sheet C-1 (Pump Station Site Plan)**

- A. Replace the Force Main Connection Detail with the revised detail attached with this Addendum.

**2. Sheet C-3 (Pump Station Plan & Section)**

- B. Revise note "Coat wetwell with OBIC polymer coating" to read "Coat wetwell with epoxy coating".

**End of Addendum No. 2**



