

# VILLAGE OF SALADO, TEXAS

## 0.200 MGD WASTEWATER TREATMENT PLANT

### ADDENDUM NO. 3

November 8, 2017

The construction plans and specifications for the Village of Salado, 0.200 MGD Wastewater Treatment Plant project, on which submittals are to be received until 3:00 P.M. on Tuesday, November 14, 2017 are hereby modified as follows:

#### I. GENERAL

1. The listing of approved equal manufacturers by addendum is not a guarantee by the Engineer that the manufacturer(s) fully meet the intent of the project specifications and drawings. Approved manufacturers listed by addendum shall meet the requirements of the project specifications and drawings. Any and all cost for deviations including engineering adjustments is the responsibility of the Contractor.

#### II. SPECIFICATIONS (GENERAL, MECHANICAL AND STRUCTURAL)

1. Refer to Technical Specifications Section G11-CHAIN LINK FENCING. In the second paragraph under G11.01 change the fence fabric height from 8' to 6'. The Chain Link Fence for this project shall be 6' tall with the 3 strands of barbed wire as shown in the details on Sheet D-07 of the Plans.
2. Refer to Technical Specifications Section M11-PERISTALTIC SLUDGE PUMPS.
  - a. Under Section M11.02 D add ProMinent as an approved equal manufacturer subject to meeting the specification requirements.
  - b. Under Section M11.06A.1. a. remove "Roller style pumps or non-reinforced tube technologies are not acceptable." Roller style pumps will be allowed.
3. Refer to Technical Specifications Section M6-POLYMER FEED SYSTEM. Under Section M6.01A add ProMinent as an approved equal manufacturer subject to meeting the requirements of the specification requirements.
4. Refer to Technical Specification Section M1-SUBMERSIBLE INFLUENT LIFT STATION PUMPS.
  - a. Under Section M1.01A the capacity of the future pump shall be changed from 1190 gpm at 50 ft of TDH to 1075gpm at 50 ft of TDH. This future pump P-4 is not part of this project. The elbow, riser pipe and guide rails for this future pump P-4 shall be furnished and installed under this project as described under Addendum No. 1, Item II.2.c.
  - b. Under Section M1.01A. Delete control panel from the last sentence which describes the items to be furnished by the pump supplier. The control panel is to be furnished and installed as part of the electrical specifications and drawings.

- c. Under Section M1.03F delete the last sentence of this section that reads “Bearings shall operate in an oil bath environment for superior lubrication, cooling and life.”
5. Refer to Technical Specifications Section G12- SLIDE GATES AND WEIR GATES. Add Northcoast Valve & Gate, Inc and Golden Harvest as approved equal manufacturers subject to meeting the specification requirements.

### III. ADDENDUM NO.1

1. Refer to Item II.2.e.related to the substitution of the built in place Influent Lift Station wet well with precast polymer concrete sections. Add the following requirements related to the use of precast polymer concrete sections.
  - a. Precast polymer concrete wet well sections shall be steel reinforced per ASTM C478.
  - b. Precast polymer concrete wet wells shall have a monolithic base slab with riser section.
  - c. Pipe penetrations shall use resilient flexible pipe to wet well connectors per ASTM C 923.
  - d. Riser section joints shall meet the requirements of ASTM C 443 including a rubber gasket joint and single offset joint.
  - e. Precast polymer concrete wet wells shall be designed to withstand all intended live loads and dead loads as shown on the plans. Dead loads shall include overburden load, soil side pressure and hydrostatic loading conditions. Wet well thickness shall be designed to resist hydrostatic pressures with a minimum safety factor of 2.0 for full depth conditions from grade to invert. Wet well shop drawings shall be sealed by a licensed professional engineer in the State of Texas.
  - f. The polymer concrete wet well shall be manufactured to Class H-20 wheel load (minimum 16,000 pounds dynamic wheel load) standards.
  - g. Polymer concrete shall have a minimum 9000 psi unconfined compressive strength in accordance with ASTM C 497.

### IV. SPECIFICATIONS (ELECTRICAL RELATED)

1. Reference Index. Add “EL16 Automatic Transfer Switch” after “EL15 Electric Utility”.
2. Reference Technical Specification EL12– SCADA Systems 1.2 B. Add the following to the list of integrators:
  - a. 5. WHECO Controls, Inc – Fort Worth, Texas
3. Reference Technical Specification EL14 – Generator. Add the following section
  - a. AUTOMATIC TRANSFER SWITCH:
4. Supplier of generator shall furnish automatic transfer switch according to EL16.
5. Add Technical Specification EL16 – Automatic Transfer Switch to the set of electrical specifications. Reference attached.

V. PLAN SHEETS (MECHANICAL RELATED)

1. REFER TO Sheet M01-Influent Lift Station. Contractor shall furnish and install two (2) Model S2R 5442 Access Doors/Covers. Access covers shall include a hinged and lockable aluminum grating panel installed beneath the access hatch. Model shall be Series X Retro-Gate as manufactured by Halliday Products or approved equal.

VI. PLAN SHEETS (ELECTRICAL RELATED)

1. Plan Sheet EL-2 – Electrical Site Plan. Add tag 2022 below tag 2019.
2. Plan Sheet EL-3 – Electrical Site Plan. Add tag 2022 below tag 4005.
3. Plan Sheet EL-4 – Electrical One Line Diagram. Add shunt trip to main and generator circuit breakers on rack. Wire shunt trip relay from generator circuit breaker to ATS Control. Control for ATS shall trip the generator circuit breaker if closed transition last 100 ms or longer.
4. Plan Sheet EL-8 – Electrical Equipment Elevations Detail 01 Elevation – Main Rack. Under Tag 1 Description for Main Switch add “Shunt Trip Relay and” before “Ground Fault Relay”.
5. Plan Sheet EL-10 – Electrical Schedules. Panel Schedule ‘P’ make the following changes:
6. On CKT # 22 delete “Spare” and replace with “Generator Battery Charger”.
7. On CKT # 21 and 23 delete “Spare” and replace with “Generator Jacket Water Heater”
8. Plan Sheet EL-10 – Electrical Schedules. Add the following tag to Power Conduit and Cable Schedules.

TAG	CABLE	CONDUIT	SOURCE	DESTINATION	COMMENT
2022	2#8, 2#10, #8G.	2”C	LIGHTING PANEL ‘P’	GENERATOR	JACKET WATER HEATER AND BATTERY CHARGER

VII. BID SUBMITTAL

1. Bidders shall acknowledge receipt of this Addendum in the space provided in the proposal and on the outer envelope of their bid.



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11-8-17

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Date



*Add. No. 3, Item IV. 5*

## **PART 1 GENERAL**

### **1.01 SCOPE**

This section refers to 480 volt automatic transfer switch. The transfer switch shall be coordinated with the Standby Generator. Reference Section EL14.

### **1.02 STANDARDS**

The products shall be UL 1008 listed.

### **1.03 SUBMITTALS**

Process catalog submittals and shop drawings for automatic transfer switches in accordance with the requirements outlined in Section EL01.

## **PART 2 PRODUCTS**

### **2.01 GENERAL**

- A. Automatic transfer switches shall be 3 pole, and have a control switch for open transition or closed transition with in-phase transfer feature. Transfer switch shall be rated 800 amps continuous.
- B. Automatic transfer shall be mounted on a rack in a NEMA 4 painted steel enclosure.
- C. Automatic transfer switch shall have programmable exerciser and shall be coordinated with generator set exerciser. Provide a contact to drop load bank upon transfer or loss of normal source. Provide fail to transfer contacts that close when transfer switch exceeds 100 ms.
- D. The transfer switch shall have an indicator panel with 1) source available/connected indicators, 2) Test/exercise buttons, 3) digital display, and 4) analog bargraph metering.
- E. The transfer switch shall have 2 auxiliary switches. Contacts shall be open when transfer switch is in normal and closed when transfer switch is in emergency.
- F. The transfer switch shall have relay signal module. Relay output shall be (1) Source 1 connected/available, (2) Source 2 connected/available, (3) Not in Auto, and (4) Failed to Transfer/Retransfer.
- G. Automatic transfer switches shall be Cummins Power Generation model OTPC with Level 2 control and Power Command microprocessor control or approved equal.

**PART 3 EXECUTION**

**3.01 GENERAL**

- A. The automatic transfer switch shall be installed in the location shown on the drawings. Provide all inter-wiring between automatic transfer switch and generator. Coordinate startup and interfaces with generator manufacturer.
- B. Prior to startup provide setpoint configuration to Engineer for review. Setpoint configuration shall have manufacturer's recommended values for exercising and transfer modes.
- C. A manufacturer's representative shall perform startup services. Startup of transfer switch shall be done at the same time as generator startup. Configure settings according to approved setpoint configuration and provide final setpoint configuration after startup. Provide a 1 hour training session for Owner's personnel.

**LAST PAGE OF THIS SECTION**