

## Addendum No. 001

Project:	Vida San Antonio Lift Station
Project No.	220874
Date:	2/23/2024

This Addendum forms a part of the Contract Documents. This addendum modifies and supplements the Contract Documents as described herein for the afore referenced Project and includes:

- One (1) page narrative
- One (1) attachment

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### Questions

1. Q: Keynote #8 on E-501 states "PROVIDE SEALING FITTING FOR ALL CONDUITS LEAVING THE RACK AND CONDUITS FOR SURGE PROTECTIVE DEVICES". Would the rack referenced is the rack referring to equipment rack at the wet well as shown on E-504 instead of the electrical equipment rack?

A: *Per SAWS, this applies to the equipment rack and to the j-boxes at the wet well.*

2. Q: Reference Spec Section 17300-8.1.06 Instrumentation – General Provisions states the following:  
1.06 APPLICATION SERVICES PROVIDER (ASP):

A. Owner shall act as ASP and provide programming for PLC, radio, and top-end graphics for the project. Owner will require 30 days to complete programming requirements for the project and shall be notified as soon as possible upon completion of SCADA panel installation.

Reference Spec Section 17500-5,6.2.01.D Programmable Logic Controller states that the PCSI is doing the PLC programming:

D. Programming – Local PLC:

1. The PLC shall use the latest version of STUDIO 5000 Full Edition ENE Configuration software for programming the CPU. Contractor to provide cable needed for communications. (Allen Bradley). The PLC shall use the latest version of Studio 5000 Full.
2. PLC Programming shall be performed by Process Control Systems Integrator (PCSI)

Based on past history we assume that the Owner (typically SAWS) will do all the programming. Clarification is requested.

A: *Spec Section 17500-5,6.2.01.D.3 Programmable Logic Controller states:*

3. *SAWS will provide support with the programming.*

## Changes to Specifications

### Electrical

1. Add Specification Section 16410, ENCLOSED SWITCHES AND CIRCUIT BREAKERS is hereby **added** to the construction documents.

## Changes to Drawings

### Electrical

1. Sheet E-101 – ELECTRICAL SITE PLAN
  - a. Keyed Note 4 states "...delayed-transition automatic transfer switch..." Keyed Note 4 is revised to state "...open-transition automatic transfer switch..."



SECTION 16410  
ENCLOSED SWITCHES AND CIRCUIT BREAKERS

**PART 1. GENERAL**

1.01 SUMMARY

- A. This specification is confidentially issued for this specific project only
- B. Contractor shall be responsible for reading all specifications from all disciplines prior to bid
- C. This section covers service disconnects, feeder disconnects, equipment disconnects, and enclosed circuit breakers

1.02 SUBMITTALS

- A. Refer to specification for Basic Submittal and O&M Requirements 16051
- B. Product Data:
  - 1. Submit for switches, circuit breakers, and accessories
  - 2. Descriptive data and time current curves for protective devices and let through current curves for those devices with current limiting characteristics. Include coordination charts and tables, and related data

1.03 RECORD DRAWINGS

- A. Refer to specification for Basic Submittal and O&M Requirements 16051

1.04 OPERATIONS & MAINTENANCE MANUALS

- A. Refer to specification for Basic Submittal and O&M Requirements 16051

1.05 QUALITY ASSURANCE

- A. Coordination: Contractor shall determine size, horsepower, voltage, and phase of all equipment to provide/adjust breaker and fused switch size accordingly. Failure to do so will be at expense of contractor at no additional cost to owner

**PART 2. PRODUCTS**

2.01 MANUFACTURER'S

- A. Fusible Switches:
  - 1. Eaton
  - 2. Square D
  - 3. Siemens
  - 4. Or approved equal

- B. Fused Power Circuit Devices:
  - 1. Eaton
  - 2. Square D
  - 3. Siemens
  - 4. Or approved equal
- C. Boltswitch
- D. Molded Case Circuit Breakers:
  - 1. Eaton
  - 2. Square D
  - 3. Siemens
  - 4. Or approved equal
- E. Combination Circuit Breaker and Ground Fault Trip:
  - 1. Eaton
  - 2. Square D
  - 3. Siemens
  - 4. Or approved equal
- F. Molded Case Current Limiting Circuit Breakers:
  - 1. Eaton
  - 2. Square D
  - 3. Siemens
  - 4. Or approved equal

## 2.02 ENCLOSED SWITCHES

- A. Enclosed Non-fusible Switch: NEMA KS 1, Type HD handle lockable with 2 padlocks
- B. Enclosed Fusible Switch, 800 Amperes and Smaller: NEMA KS 1, Type HD, clips to accommodate specified fuses, enclosure consistent with environment where located, handle lockable with two (2) padlocks, and interlocked with cover in CLOSED position
- C. Enclosed Fusible Switch Larger Than 800 Amperes: Bolted pressure or high-pressure contact switch, bus drilled to accommodate specified fuses, enclosure consistent with environment where located
  - 1. Minimum Fault Current Rating: 100,000 symmetrical rms amperes.
- D. All enclosures located outdoors or where subject to wet or environmentally harsh locations shall be NEMA 4X 316 stainless steel
- E. All switches shall be rated at 600 volts minimum.
- F. Handle operator mechanisms shall be on side of enclosure and not on front. Keyed mechanisms that separate handle from breaker mechanism when door is opened are not acceptable

## 2.03 ENCLOSED CIRCUIT BREAKERS

- A. Enclosed Molded Case Circuit Breaker: NEMA AB 1, handle lockable with 2 padlocks
- B. Characteristics:
  - 1. Frame size, trip rating, number of poles, and auxiliary devices as indicated
  - 2. Interrupting capacity rating to meet available fault current, 10,000 symmetrical rms amperes minimum
  - 3. Appropriate application listing when used for switching fluorescent lighting loads or heating, air conditioning, and refrigeration equipment
- C. All enclosures located outdoors or where subject to wet or environmentally harsh locations shall be NEMA 4X 316 stainless steel

## 2.04 ACCESSORIES

- A. Solid state breaker requiring programming unit for settings adjustment
  - 1. Provide new programming unit and all accessories for Owner and Engineers use. Turn over to Engineer for review and testing
- B. Original set-up and adjustments shall be performed by the Circuit Breaker Manufacturers Factory Representative

## 2.05 TRIP UNITS

- A. All service and feeder breakers shall have replaceable trip plugs, adjustable, or electric type with adjustable trips

# **PART 3. EXECUTION**

## 3.01 INSTALLATION

- A. Install enclosed switches and circuit breakers in locations as indicated, according to Manufacturer's written instructions
- B. Install enclosed switches and circuit breakers level and plumb
- C. Install wiring between enclosed switches and circuit breakers and control/indication devices
- D. Connect enclosed switches and circuit breakers and components to wiring system and to ground as indicated and instructed by manufacturer. Tighten connectors and terminals, including screws and bolts according to equipment manufacturer's published torque tightening values for equipment connectors. Where manufacturer's torqueing requirements are not indicated, tighten connectors and terminals according to tightening torques specified in UL Standard 486A

## 3.02 ADJUSTMENT/CALIBRATION

- A. Set field adjustable enclosed equipment trip ranges as recommended by manufacturer

**END OF SECTION**