

ADDENDUM NO. 2

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

**INSTALL SOLAR ARRAY AND
FMS BATTERY STORAGE
Camp Crowder Training Site
Neosho, Missouri
PROJECT NO.: T1922-01**

Bid Opening Date: 1:30 PM, Thursday, June 4, 2020 (Not Changed)

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

1. **SECTION 262713 – ELECTRICITY METERING**

- a. REPLACE Specification Section 262713 – ELECTRICITY METERING. See attached Section 262713.

DRAWING CHANGES: NONE

GENERAL COMMENTS:

1. The Pre-Bid Meeting was held on-site May 20, 2020 followed by a walk-through of the facility.
2. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
3. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
4. Current Planholders list available online at: <https://www.oafmdcplanroom.com/jobs/477/details/t1922-01-install-solar-array-and-fms-battery-storage>
5. Please contact Mandy Roberson, Contract Specialist, at 573-522-0074 or mandy.roberson@oa.mo.gov for questions about bidding procedures and MBE\WBE\SDVE Goals and bid submittal requirements.
6. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 1C, Columbia MO 65201, 573-446-7768 to order official plans and specifications.
7. Bidders needing additional site inspection should contact Jeremy Newton at 573-638-9500, ext. 37484 to schedule a time.

ATTACHMENTS:

1. Section 262713 – ELECTRICITY METERING
2. Pre-bid Meeting Sign-In Sheet

May 27, 2020

END ADDENDUM NO. 2

SECTION 262713 - ELECTRICITY METERING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes “Bi-Directional” electricity metering, work to accommodate utility company “Bi-Directional” revenue meters used to manage the electrical power system.
- B. All meters shall be provided by the Utility Company (Liberty Utilities). Contractor shall install meters per Utility Company requirements.

1.2 COORDINATION

- A. Electrical Service Connections: Coordinate with utility companies and utility-furnished components.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with UL 916.

2.2 UTILITY METERING INFRASTRUCTURE

- A. Install metering accessories furnished by the utility company, complying with its requirements.
- B. Current-Transformer Cabinets: Comply with requirements of electrical-power utility company.
- C. Meter Sockets:
 - 1. Comply with requirements of electrical-power utility company.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with equipment installation requirements in NECA 1.

- B. Install meters furnished by utility company. Install raceways and equipment according to utility company's written instructions. Provide empty conduits for metering leads and extend grounding connections as required by utility company.
- C. Install arc-flash labels as required by NFPA 70.
- D. Wiring Method:
 - 1. Comply with requirements in Section 260519 "Low-Voltage Electrical Power Conductors and Cables."
 - 2. Install unshielded, twisted-pair cable for control and signal transmission conductors.
 - 3. Minimum conduit size shall be 1/2 inch (13 mm).
- E. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

3.2 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
- B. Tests and Inspections:
 - 1. Equipment and Software Setup:
 - a. Set meter date and time clock.
 - b. Test, calibrate, and connect pulse metering system.
 - c. Set and verify billing demand interval for demand meters.
 - d. Report settings and calibration results.
 - e. Set up reporting and billing software, insert billing location names and initial constant values and variable needed for billing computations.
 - 2. Connect a load of known kilowatt rating, 1.5 kW minimum, to a circuit supplied by metered feeder.
 - 3. Turn off circuits supplied by metered feeder and secure them in off condition.
 - 4. Run test load continuously for eight hours minimum, or longer, to obtain a measurable meter indication. Use test-load placement and setting that ensures continuous, safe operation.
 - 5. Check and record meter reading at end of test period and compare with actual electricity used, based on test-load rating, duration of test, and sample measurements of supply voltage at test-load connection. Record test results.
 - 6. Generate test report and billing for each tenant or activity from the meter reading tests.
- C. Electricity metering will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

END OF SECTION 262713

