

SECTION 16420

SERVICE ENTRANCE

PART 1 -GENERAL

1.1 DESCRIPTION OF WORK

- A. The work of this section consists of providing labor, materials, tools, appliances and miscellaneous accessories associated with the service-entrance work indicated herein and on the Drawings.

1.2 RELATED DOCUMENTS

- A. Drawings.
- B. General provisions of Contract, including General and Supplementary Conditions.
- C. Division 01 - Specification Sections.
- D. Section 16010 - General Electrical Provisions.

1.3 MAIN SERVICE

- A. Arrange with Entergy to provide new 277/480 volt, 4-wire, 3-phase Wye connected service. Provide raceways, conductors, terminations and all other equipment and accessories required for this work.
- B. All metering equipment shall be in accordance with Entergy's regulations.
- C. Work of this section shall begin at the point where Entergy terminates its work.
- D. All fees and charges including Entergy's in connection with the above shall be paid as work of this section. This includes charges associated with temporary service.

1.4 EMERGENCY SERVICE: Refer to Specification 16621, Stand-by Generator Systems for new work.

PART 2 - PRODUCTS

2.1 SERVICE-ENTRANCE EQUIPMENT

- A. General: Provide service-entrance equipment and accessories of types, sizes, ratings and electrical characteristics indicated on the drawings and in accordance with other DIVISION 16 Specifications, which comply with manufacturer's standard materials,

design and construction in accordance with published product information, as required for complete installation, and as herein specified.

- B. Meter Sockets: Provide meter sockets which comply with requirements Entergy.
- C. Provide grounding systems as specified herein and by Entergy.

PART 3 - EXECUTION

3.1 INSTALLATION OF SERVICE-ENTRANCE EQUIPMENT

- A. Install service-entrance equipment as indicated, in accordance with equipment manufacturer's written instructions, and with recognized industry practices, to ensure that service-entrance equipment fulfills requirements. Comply with applicable installation requirements of NEC and NEMA standards.
- B. Coordinate with other electrical work, including utility company wiring, as necessary to interface installation of service-entrance equipment work with other work.
- C. Install fuses, if any, in service-entrance equipment.
- D. Set field-adjustable GFP devices and circuit breakers for pickup and time-current sensitivity ranges as indicated, subsequent to installation of devices and CB's.

3.2 GROUNDING: Provide system and equipment grounding and bonding connections for service-entrance equipment and wiring/cabling as required and/or indicated on the Drawings.

3.3 ADJUST AND CLEAN

- A. Adjust operating mechanisms for free mechanical movement.
- B. Touch-up scratched or marred enclosure surfaces to match original finishes.

3.4 FIELD QUALITY CONTROL: Upon completion of installation of service-entrance equipment and electrical circuitry, energize circuitry and demonstrate capability and compliance with requirements. Where possible, correct malfunctioning units at site, then retest to demonstrate compliance; otherwise, remove and replace with new units, and proceed with retesting.

END OF SECTION