

SECTION 262116 - LOW-VOLTAGE UNDERGROUND ELECTRICAL SERVICE ENTRANCE

PART 1 - GENERAL

1.1 ELECTRICAL POWER SERVICE

- A. The electric service includes utility company transformer as indicated on drawings, furnished by local utility company, with secondary voltage as indicated on drawings.
- B. Furnish and install all work in strict compliance with all requirements set forth by the utility company providing electrical service for the project. Procure all needed details and information directly from the utility company as required for complete operational installations. Furnish and install all electrical work accordingly. Such work includes, but is not limited to: Pads, bases, vaults, pits, manholes, metering, supports, conduit, wiring, connections, maintaining clearances, testing, inspections and ancillary work as applicable.
- C. Determine available fault current from electric utility company and provide appropriately rated electrical service and distribution equipment to accommodate not only the initial transformer proposed by the utility company, but also a future larger transformer if applicable to allow for full usage of the electrical service capacity.
- D. Where indicated in project manual, or where indicated on drawings, or where required by NEC, install ground-fault protection devices complying with electrical winding polarities indicated. 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.
- E. Provide secondary ducts and cable, including one spare duct, from terminal pole to building. Terminate ducts and cable at terminal pole as directed by utility company. Provide all work per utility company requirements and standards. Utility company will furnish and install the transformer and the primary cables, and will make service transformer connections.

PART 2 - PRODUCTS: REFER TO APPLICABLE DIVISION 26 SECTIONS.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Coordinate with other electrical work, including utility company wiring, as necessary to interface installation of service entrance equipment work with other work. Provide service entrance conduits with sweep L's. Properly seal conduits, immediately upon installation, to prevent water, moisture, dirt, rodents, insects, etc. from entering ducts.

- B. Prior to commencing with any service entrance related work, carefully coordinate installation of service work with affected utility companies, with Owner's Representative, with other trades, with affected entities, and with authorities having jurisdiction.
- C. Provide tight system and equipment grounding and bonding connections for service-entrance equipment, and wiring.

END OF SECTION 262116