

SECTION 10.17
SERVICE ENTRANCE AND CABINET

10.17.01--Description: This item shall consist of furnishing and installing a service entrance and cabinets of the type specified as detailed on the plans at the location shown on the plans or as directed by the Engineer and in accordance with these specifications. Included in this work, where called for, are service entrance cabinet, lighting control cabinet, electrical components, service entrance conductors and conduit, foundations, transformer pad, fence, metering provisions and utility work.

10.17.02--Materials: The materials for this work shall conform to the requirements of Article M.15.15.

10.17.03--Construction Methods: All work shall be constructed as shown on the plans or as required by the utility company and directed by the Engineer. The Contractor shall give adequate notice to the utility company for scheduling of work by utility.

The installation of the service conduit of the size and type specified, and all the conduit required in the concrete pad or concrete foundation, shall conform to the provisions of Article 10.08.03 for the type of installation required. Where service entrance conductors are provided by the utility company, the Contractor shall provide pull wire.

Trenching and backfilling for conduit shall conform to the provisions of Article 10.01.03.

The concrete pad and concrete foundations shall be constructed in conformance with Article 10.02.03. Conduit, inserts, sleeves and fittings shall be placed in proper positions and shall be so held until the concrete sets. Forms shall not be removed until the concrete has hardened properly and not less than 24 hours after the concrete has been placed. All portions of the pad and foundation that will remain exposed to view shall be neatly finished in conformance with the requirements for "Float Finish" as outlined in Article 6.01.03-21.

The transformer pad may be precast per utility company specifications. Pedestal foundations may be precast.

The electrical components shall be mounted to the plywood back panel in each cabinet, and wired as shown on the plans or as directed.

Contractor shall label all circuits in each cabinet.

The photoelectric control shall be located as indicated on the plans. The cell shall be positioned according to the manufacturer's recommendations. No. 12 conductors shall be run from the cell to the service cabinet and the necessary connections made for proper operation.

10.17.04--Method of Measurement: This work will be measured for payment as a unit by the number of services installed and accepted.

10.17.05--Basis of Payment: This work will be paid for at the Contract unit price for "Service Entrance and Cabinet," of the type called for, complete and accepted in place, which price shall include all materials, including all electrical components, concrete pad, service entrance cabinet, lighting control cabinet, main disconnect safety switch, concrete foundation, gravel fill, conduits, conductors, control transformer, circuit breakers, meter socket, photoelectric control, transformer pad, receptacle, contactor, convenience light, pedestal, fence, pull wire, manual switch, fuses, fuseholders, ground rod, grounding conductor, trenching and backfilling, fittings, standoffs, and all equipment, tools, labor and work incidental thereto including excavation, clearing or removal of brush, backfill, grading, topsoil, sodding or turf establishment, and all utility company charges.

Where rock is encountered in excavation, it will be paid for as "Rock in Trench Excavation" in accordance with the provisions of Article 10.01.05.

Pay Item	Pay Unit
Service Entrance and Cabinets (Type)	EA.