

**805.04.02** Electrical hand holes, manholes, pull and junction boxes will be measured and paid for as specified in Section 811.

**805.04.03** Electrical conduit and fittings and junction boxes to be constructed into concrete structures will not be measured but the cost will be incidental to the pertinent Concrete Traffic Barrier, Concrete Parapet, or other pertinent Concrete items specified in the Contract Documents.

**805.04.04** Concrete Foundations will be measured and paid for as specified in Section 801.

## SECTION 806 — LUMINAIRES AND LAMPS

**806.01 DESCRIPTION.** This work shall consist of furnishing and installing luminaires and lamps. The requirements of Section 820 shall be a part of this Specification.

### 806.02 MATERIALS.

Luminaires and Lamps	950.12
Photoelectric Controls	950.13.02

### 806.03 CONSTRUCTION.

**806.03.01 Arm Mounted Luminaires.** Luminaire mounting shall be installed on the respective structures and adjusted as specified in the Contract Documents. The socket positions shall be adjusted to provide the required photometric performance. The luminaire shall include an individual photocell when specified in the Contract Documents.

**806.03.02 Bridge Underpass Luminaires.** Bridge underpass luminaires shall be installed on structures as specified in the Contract Documents. Luminaires shall be connected and lamp sockets adjusted where necessary as specified in the manufacturer's recommendations.

**806.03.03 Cleaning.** After installation has been completed and prior to the 30 days performance test, refractors and reflectors shall be cleaned with a product approved by the manufacturer.

**806.03.04 Installation.** All luminaires and lamps shall be furnished and installed as specified in the Contract Documents or in conformance with the manufacturer's recommendations.

**806.04 MEASUREMENT AND PAYMENT.** Luminaires will be measured and paid for at the Contract unit price per each. The payment will be full compensation for luminaires, lamps, ballast, photocell, mounting hardware, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

## **SECTION 807 — ELECTRICAL SERVICE EQUIPMENT**

**807.01 DESCRIPTION.** This work shall consist of furnishing and installing electrical service equipment necessary for the utility company to connect the electrical power supply as specified in the Contract Documents or as directed by the Engineer and coordinating the connection with the local utility company.

### **807.02 MATERIALS.**

Control and Distribution Equipment

950.13

**807.03 CONSTRUCTION.** Electrical service equipment shall consist of the equipment necessary to connect a utility company service to a traffic signal controller cabinet, lighting control cabinet, traffic monitoring station cabinet, or other traffic control device cabinet. Electrical service equipment shall be provided at the phasing and amperage specified in the Contract Documents.

**807.03.01 Metered Service Pedestal.** Metered service pedestals shall consist of a galvanized steel post containing a 100 amp 2 pole main circuit breaker for service disconnect, branch circuit breakers, and integral meter socket.

The galvanized steel post shall be designed to be imbedded into the soil a minimum of 18 in. and have a stabilizer shoe. Where specified in the Contract Documents, the post shall be imbedded in concrete. The post and meter socket shall conform to NEMA 3R. Provisions shall be provided to padlock the post closed to protect the circuit breakers, and to install a utility company seal to secure the meter.

Branch circuit breakers shall consist of a combination of 4 single pole 20 amp circuit breakers, and 1 double pole 20 amp circuit breaker or as specified in the Contract Documents.