

## SECTION 16200

### ELECTRICAL SERVICE SYSTEM

#### GENERAL REQUIREMENTS

Section 15050 GENERAL REQUIREMENTS FOR MECHANICAL AND ELECTRICAL WORK is hereby made an integral part of this division and section of the specifications.

#### ELECTRIC SERVICE

Electrical power for this building will be available from the secondary side of the transformer supplied by the Utility Company.

This electrical service shall be of voltage & phase characteristics shown on drawings. The Contractor shall furnish and install all items not furnished by the utility company to make a complete and operational connection.

#### GROUNDING

The electrical contractor shall furnish and install a complete grounding system for the building in accordance with Article 250 of the N.E.C. Code. All grounding shall be by means of driven grounds and shall not be connected with any water pipe.

The grounding conductor shall be installed in conduit and shall be securely bonded to the conduit system at each end.

Equipment to be grounded shall include, but not be limited to, the following: All motors; all safety switches and circuit panels; entire conduit system; all duplex convenience outlets; and all lighting fixtures.

Interior structural steel frame of the building shall be bonded to the service grounding system with full size ground wire serving service equipment. Provide access door at bonding point to be fully accessible for inspection per N.E.C.250-80.

Grounding for all power & lighting branch circuits and panel or motor feeders shall be accomplished by means of a separate ground wire. Grounding through use of conduit system is not acceptable.

## TESTING

The electrical contractor shall furnish all labor and equipment to test all circuits in the building for continuity, shorts, opens & grounds. Any deficiencies found shall be corrected as required.

Upon completion of testing the electrical contractor shall provide to the engineer a signed statement equal to the following: "The undersigned having been engaged as the Electrical Contractor on (Project Name) confirm that all power & lighting circuitry has been tested and found to be in serviceable condition."

END OF SECTION