

SECTION 260500 – GENERAL PROVISIONS

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish all labor, tools equipment, services and related accessories for a complete installation of all electrical work as indicated in the Drawings and Specifications. Items omitted from either the Specifications or the Drawings, but shown or described in the other, and all items necessary to make the electrical system complete and workable shall form a part of the Work.

1.2 CODES AND REGULATIONS

- A. All work, material, and equipment shall comply with all requirements of the latest editions and interim amendments of the National Electric Code (NEC), National Electric Safety Code (NESC), National Fire Protection Association(NFPA), OSHA, Americans with Disabilities Act (ADA), and all applicable federal, state, and local laws, and ordinances. All electrical equipment provided under this Contract shall be new (except where otherwise indicated) and shall comply with the requirements of the Underwriters' Laboratories (UL) and bear the UL label.

1.3 PERMITS AND INSPECTIONS

- A. Secure and pay for all permits and inspections required for the Work. Turn over all certificates of approval for inspections of electrical work to the Owner promptly when received. These certificates must be received before final payment will be made for the Work involved.

1.4 SHOP DRAWINGS

- A. Submit appropriate drawings, manufacturer's specifications, and catalog information for all materials and equipment provided with this Work, for approval by the Architect/Engineer before installation.

1.5 RECORD DRAWINGS

- A. At completion of this Project, the Contractor shall deliver a set of Drawings and Specifications conformed to construction.

1.6 FINISH CONDITION

- A. All equipment furnished with finished surfaces from Manufacturer are to be left clean and in original finish condition at the completion of Work, unless otherwise indicated.

1.7 OWNER FURNISHED ITEMS

- A. Receive, store, handle, and install Owner furnished items indicated.

1.8 TESTS AND ADJUSTMENTS

- A. Conduct such tests and adjustments of equipment as required to verify equipment performance. Such tests shall be conducted in the presence of the Owner or his representative.

1.9 SITE MAINTENANCE AND CLEAN-UP

- A. Remove all debris resulting from the Work, as well as the work tools and equipment, from the site upon completion of this Contract. All installed equipment and lighting fixtures shall be clean before final acceptance. Adjacent operational areas must remain clear and clean with minimal disturbance during Work.

1.10 UTILITIES

- A. Electric: To be provided by the Contractor.
- B. Work shown on the Drawings is according to preliminary understanding of Utility requirements.

PART 2 - PRODUCTS

2.1 BASIC MATERIALS

- A. Conduit in wet process areas and underground shall be polyvinyl chloride as permitted by the NEC, except as otherwise indicated on the Drawings.
- B. Conduits shall be 3/4" minimum unless otherwise noted.
- C. Power conductors shall be stranded copper, 600volt, type XHHW, THWN, RHW, or THW, except as otherwise indicated.
- D. Provide pull boxes, pulling fittings, junction boxes, splice boxes and fittings where shown and at other locations as necessary.
- E. Wiring devices on normal power shall be NEMA Specification grade weather proof.
- F. Identify control, signal, and communications wiring at all terminal and splice points with permanent self-adhesive wire identification markers. Wire markers shall be made of vinyl impregnated cloth, vinyl plastic, or other permanent materials.

2.2 GROUNDING

- A. Provide all materials and labor required to install an approved grounding system per NEC.
- B. Ground all metallic conduits, fixtures, receptacles, motors, panels and other exposed non-current carrying metal parts of electrical equipment in accordance with the NEC, and as shown on the Drawings.
- C. Provide a properly sized ground wire in all conduits and raceways.

2.3 MANUFACTURER'S CATALOG NUMBERS

- A. Where material or equipment is specified by Manufacturer's catalog or model number, it is intended that equivalent materials or equipment provided by other Manufacturers will be considered for acceptance, unless noted.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. All conduits in new finished spaces shall be concealed. Exposed conduits where permitted shall be run parallel with and perpendicular to building surfaces as much as practical.
- B. Conduits shall be supported with rigid supports. Flexible supports shall not be used except as noted.
- C. Provide pull boxes, junction boxes, splice boxes and fittings where shown, and at other locations to meet requirements. Avoid pulling runs containing more than 270 degrees of bends.
- D. Power conductor identification shall be in accordance with the NEC.

END OF SECTION 260500