SECTION 26 27 16 - ELECTRICAL CABINETS AND ENCLOSURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes hinged cover enclosures, cabinets, terminal blocks, and accessories.

1.2 SUBMITTALS

A. Product Data: Submit manufacturer's standard data for enclosures, cabinets, and terminal blocks.

1.3 EXTRA MATERIALS

A. Furnish two of each key.

PART 2 - PRODUCTS

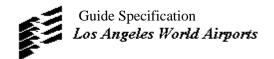
2.1 Due to the corrosive exterior environment at the airport, <u>all electrical cabinets and enclosure are to be located indoors</u>, as much as possible. In the event that an exterior installation is the only option, these items are to be a NEMA Type 4, 3R Stainless Steel gasketed.

2.2 HINGED COVER ENCLOSURES

- A. Manufacturers:
 - 1. Hoffman Electrical Products.
 - 2. Square D.
 - 3. General Electric.
- B. Construction: NEMA 250, Type 1 for indoors or <u>NEMA type 4,or 3R stainless steel</u> gasketed for outdoor installations.
- C. Covers: Continuous hinge, held closed by flush latch operable by key.
- D. Furnish interior plywood panel for mounting terminal blocks and electrical components; finish with white enamel.
- E. Enclosure Finish: Manufacturer's standard enamel.

2.3 CABINETS

- A. Manufacturers:
 - 1. Hoffman Electrical Products.
 - 2. Square D.
 - 3. General Electric.



- B. Boxes: Galvanized steel with removable end walls.
- C. Backboard: Furnish 3/4 inch thick plywood backboard for mounting terminal blocks. Paint matte white.
- D. Fronts: Steel, flush or surface type with screw cover front, door with concealed hinge. Finish with gray baked enamel.
- E. Knockouts: as required for conduit entry.
- F. Furnish metal barriers to form separate compartments wiring of different systems and voltages.
- G. Furnish accessory feet for free-standing equipment.

2.4 TERMINAL BLOCKS

- A. Terminal Blocks: NEMA ICS 4.
- B. Power Terminals: Unit construction type with closed back and tubular pressure screw connectors, rated 600 volts.
- C. Signal and Control Terminals: Modular construction type, suitable for channel mounting, with tubular pressure screw connectors, rated 300 volts.
- D. Furnish ground bus terminal block, with each connector bonded to enclosure.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install enclosures and boxes plumb. Anchor securely to wall and structural supports at each corner.
- B. Install cabinet fronts plumb.
- C. To the extent possible, install all enclosures indoors due to the corrosive environment.

END OF SECTION 26 27 16