

## **PART 1 - General**

### **1.1 RELATED SECTIONS**

- .1 Section 26 05 01 Common Work Results - For Electrical.

### **1.2 SHOP DRAWINGS AND PRODUCT DATA**

- .1 Submit shop drawings and product data for junction box and cabinets in accordance with Section 01 33 00 - Submittal Procedures.

### **1.3 REFERENCES**

- .1 Canadian Standards Association (CSA International)
  - .1 CSA C22.1-15, Canadian Electrical Code, Part 1, 23rd Edition.

### **1.4 WASTE MANAGEMENT AND DISPOSAL**

- .1 Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Management Plan.
- .2 Fold up metal banding, flatten and place in designated area for recycling.

## **PART 2 - Products**

### **2.1 JUNCTION AND PULL BOXES**

- .1 Pull and junction boxes, where larger than standard boxes shall be the equivalent to Type "C" or "D" boxes sized according to C.E.C. Sections 12 3000 to 12 3038. Use Type "D" for boxes up to 300mm x 300mm and Type "C" for boxes 300mm x 300mm or larger.
- .2 Pull boxes and junction boxes installed into the Jetty area (above ground or in the tunnel space) shall be CSA type 4X.
- .3 Pull boxes in other indoor area shall be of sheet metal construction with all welded steel corners and screw on flat covers for surface mounting.
- .4 All flush installed boxes shall be Type "D". Covers for flush mounted pull boxes shall extend a minimum of 25 mm all around.
- .5 Concealed junction boxes (within ceiling space) shall not be smaller than 100 mm square.
- .6 All junction boxes containing more than three circuits shall be complete with terminal strips for phase conductors, neutral and bonds.

## **2.2 CABINETS**

- .1 Cabinets shall be steel, fabricated to C.S.A. & EEMAC Standards with baked enamel finish. Cabinet shall be EEMAC Standard Types "C", "D", or "T" as indicated on the drawings. Type "T" cabinets shall be complete with hinged door, lock, two keys, and handle, and be lined with 21mm plywood.
- .2 Cabinets installed into the Jetty area (above ground or in the tunnel space) shall be CSA type 4X.

## **PART 3 - Execution**

### **3.1 JUNCTION, PULL BOXES AND CABINETS INSTALLATION**

- .1 Install pull boxes in inconspicuous but accessible locations and secure them adequately to the building structure. Pull boxes installed in the middle of conduit runs without backing are not acceptable.
- .2 The location of junction and/or pull boxes in suspended ceiling spaces, i.e. - dry wall, T-Bar, etc., is not to be greater than 760mm above the finished ceiling and must be easily accessible.
- .3 All suspended junction, pull and outlet boxes shall be supported with minimum size 10mm threaded rods, nuts and flat washers. Threaded rods shall be secured to boxes with one flat washer and nut installed on both sides of box. One rod required for all boxes sized up to and including 119mm square. Two rods required for boxes larger than 119mm square, up to and including 203mm square. A minimum of four rods required for all boxes larger than 203mm square.
- .4 Mount cabinets with top not higher than 2000mm above finished floor.
- .5 Install terminal blocks as indicated in cabinets.
- .6 Only main junction and pull boxes are indicated. Install pull boxes so as not to exceed 30m of conduit run between pull boxes.

### **3.2 IDENTIFICATION**

- .1 Provide equipment identification in accordance with Section 26 05 01 - Common Work Results - Electrical.
- .2 Install size 2 identification labels indicating system name, voltage, phase and circuit numbers where applicable.

**END OF SECTION**