Part 1 General

1.1 RELATED SECTIONS

.1 Section 26 05 00 - Common Work Results for Electrical.

1.2 REFERENCES

.1 Canadian Standards Association (CSA International).

.1 CAN/CSA C22.1 No.126.1-02, Metal Cable Tray Systems.

.2 National Electrical Manufacturers Association (NEMA).

.1 NEMA VE 1-2002, Metal Cable Tray Systems.

.2 NEMA VE 2-2001, Cable Tray Installation Guidelines.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

.1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.

.2 Product Data: submit manufacturer's product data sheets for cable tray indicating dimensions, materials, and finishes, including classifications and certifications.

.3 Shop Drawings: submit shop drawings showing materials, finish, dimensions, accessories, layout, and installation details.

.4 Identify types of cabletroughs used.

.5 Show actual cabletrough installation details and suspension system.

1.4 WASTE MANAGEMENT AND DISPOSAL

.1 Separate waste materials for recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.5 ACCEPTABLE PRODUCTS AND MATERIALS

.1 Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products.

Part 2 Products

2.1 CABLE TRAYS

.1 For services related to scenography:

.1 Ladder type cable tray, Class A, to CAN/CSA C22.2 No. 126.1.

.2 Trays: hot-dipped galvanized steel, 450 mm wide with depth of 100 mm.

.2 For Telecommunications:

.1 Wire mesh type, hot-dip galvanized steel, 300 mm wide with depth of 100 mm.

.3 Fittings: horizontal elbows, end plates, drop outs, vertical risers and drops, tees, wyes, expansion joints and reducers where required, manufactured accessories for cabletrough supplied.

.1 Radii on fittings: 300 mm minimum.

.4 Solid covers for complete cabletrough system including fittings.

.5 Barriers where different voltage systems are in same cabletrough.

.6 Ground cable trays with #2 AWG bare copper conductor attached to each tray section in accordance with CEC Requirements.

.7 Provide fire stop material at firewall penetrations.

2.2 SUPPORTS

.1 Hot-dip galvanized steel wall-mounted supports, cantilever, providing a continuous free access from one side.

2.3 ACCEPTABLE PRODUCTS

.1 Thomas & Betts.

.2 Cooper B-Line.

.3 MP Husky.

.4 Replacement materials or products: approved by addendum according to Instructions to bidders.

Part 3 Execution

3.1 INSTALLATION

.1 Install complete cabletrough system in accordance with NEMA VE 2.

.2 Support cable tray on one side.

.3 Remove sharp burrs or projections to prevent damage to cables or injury to personnel.

3.2 GROUNDING

.1 Supply and install a grounding conductor, stranded copper bare size as indicated.

.2 Connect grounding conductor in new cable trays to existing grounding conductor in existing cable trays.

.3 Connect grounding conductor to cable tray at intervals of 3 m with appropriate connectors.

.4 Connect grounding conductor to ground bar.

END OF SECTION