

## **PART 1 - GENERAL**

### **1.1 RELATED SECTIONS**

- .1 Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.
- .2 Section 26 05 00 – Common Work Results – Electrical.
- .3 Section 26 05 31 – Splitters, Junction, Pull Boxes and Cabinets.
- .4 Section 26 05 32 – Outlet Boxes, Conduit Boxes and Fittings.
- .5 Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.
- .6 Section 26 27 23 – Indoor Service Poles.

### **1.2 REFERENCES**

- .1 Unless otherwise indicated, all the works must be done in accordance with the latest edition of the Quebec Construction Code (QCC).

### **1.3 SYSTEM DESCRIPTION**

- .1 Telecommunications raceways system consists of outlet boxes, cover plates, cabinets, conduits, cable trays, pull boxes, sleeves and caps, fish wires, service poles, service fittings, concrete encased ducts.

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

- .1 Separate waste materials for recycling in accordance with Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.
- .2 Collect and separate packaging material and dispose of in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .3 Fold up metal banding, flatten and place in designated area for recycling.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- .1 Conduits: EMT type, in accordance with Section 26 05 34.

**Rev. 00: Issued for tender (2013-11-19)**

- .2 Junction boxes and cabinets in accordance with Section 26 05 31.
- .3 Outlet boxes and connections in accordance with Section 26 05 32.
- .4 Fish wire: polypropylene.
- .5 Mounted on plywood.
- .6 One green No. 6 conductor in the conduit or as indicated on the plans for each telephone room grounded to water service pipe.
- .7 One duplex outlet, 15 A, 120 V, in each telephone room or closet.

## **2.2 TELEPHONE AND INFORMATION TECHNOLOGY SYSTEMS**

- .1 Telephone and information technology (IT) equipment to be supplied and installed by the Owner/Specialty Contractor according to project requirements.
- .2 The Contractor for this section is responsible for supplying and installing empty conduits, complete with the outlets listed below, indicated on the drawings as follows:
  - .1 Telephone outlet: single gang outlet box;
  - .2 Combined telephone and IT outlet: single gang outlet box.
- .3 Install fish wires in empty conduits.

## **2.3 CABLE TV SYSTEM**

- .1 Cable TV equipment to be supplied and installed by Owner.
- .2 Contractor for Section 27 05 28 responsible for supplying and installing empty conduits, complete with the outlets listed below, indicated on the plans as follows:
  - .1 Cable TV outlet: single gang outlet box.
- .3 Install a stainless steel cover on each outlet; the Owner may have the cable TV system installed later.
- .4 Install fish wires in empty conduits.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- .1 Install empty raceway system, including underfloor and overhead distribution system, fish wire, terminal cabinets, outlet boxes, floor boxes, pull boxes, cover plates, conduit, sleeves and caps, cabletroughs, service poles, miscellaneous and positioning material to constitute complete system.
- .2 No more than two 90° bends without provision for pulling (pull box).
- .3 All conduits to be securely installed and adequately supported.
- .4 Ream, ring and cap metal conduits.
- .5 Install a pull box in all straight sections of conduit, and it is not to serve as a replacement for a bend or elbow.
- .6 Install pull boxes in easily accessible locations.
- .7 The length of the box must be 16 times the diameter of the largest conduit connected to the box.
- .8 Except where indicated otherwise, install in the wall a 21 mm conduit from each telephone or IT outlet to the nearest accessible hallway ceiling space, and terminate the conduit horizontally with a 90° bend of the largest possible radius.

**END OF SECTION**

**Rev. 00: Issued for tender (2013-11-19)**