

**Part 1 General**

**1.1 REFERENCES**

- .1 Canadian Standards Association (CSA)
  - .1 CAN/CSA C22.2, Outlet Boxes, Conduit Boxes and Fittings.
  - .2 CSA C22.2 No. 45, Rigid Metal Conduit
  - .3 CSA C22.2 No. 83, Electrical Metallic Tubing.

**Part 2 PRODUCTS**

- .1 Submit product data in accordance with Section 26 05 00.

**2.2 CONDUITS**

- .1 Rigid metal conduit: to CSA C22.2 No. 45, hot dipped galvanized steel threaded.
- .2 Electrical metallic tubing (EMT): to CSA C22.2 No. 83 with couplings.

**2.3 CONDUIT FASTENINGS**

- .1 One hole steel straps to secure surface conduits 50 mm and smaller. Two hole steel straps for conduit larger than 50 mm.
- .2 Beam clamps to secure conduits to exposed steel work.
- .3 Channel type supports for two or more conduits at 3 m oc.
- .4 Threaded rods, 6 mm dia., to support channels.

**2.4 CONDUIT FITTINGS**

- .1 Fitting: manufactured for use with conduit specified. Coating: same as conduit.
- .2 Factory "ells" where 90° bends are required for 25 mm and larger conduits.
- .3 Watertight connectors and couplings for EMT. Set-screws are not acceptable.
- .4 Explosion fittings as required in hazardous areas at the fuel dispensing area and where conduits from the fuel dispensing area enter the building.

**2.5 FISH CORD**

- .1 Polypropylene.

**Part 3 EXECUTION**

**3.1 INSTALLATION**

- .1 Install conduits to conserve headroom in exposed locations and cause minimum interference in spaces through which they pass.

- .2 Conceal conduits except in unfinished areas.
- .3 Use rigid hot dipped galvanized steel threaded conduit underground, on building exterior surfaces, and for all work associated with the fuel system and fuel area.
- .4 Use electrical metallic tubing (EMT) indoors, unless in hazardous area.
- .5 Install conduit sealing fitting in hazardous areas. Fill with compound.
- .6 Bend conduit cold. Replace conduit if kinked or flattened more than 1/10 of its diameter.
- .7 Mechanically bend steel over 19 mm dia.
- .8 Field threads on rigid conduit must be of sufficient length to draw conduits up tight.
- .9 Install fish cord in empty conduits.
- .10 Remove and replace blocked conduit sections. Do not use liquids to clean out conduits.
- .11 Dry conduits out before installing wire.

### **3.2 SURFACE CONDUIT**

- .1 Run parallel or perpendicular to building lines.
- .2 Run conduits in flanged portion of structural steel.
- .3 Group conduits wherever possible on channels.
- .4 Do not pass conduits through structural members except where indicated.

### **3.3 CONDUIT IN CAST-IN-PLACE CONCRETE**

- .1 Locate to suit reinforcing steel.
- .2 Protect conduits from damage where they stub out of concrete.
- .3 Install sleeves where conduits pass through slab or wall.

**END OF SECTION**