

**Part 1 General**

**1.1 NOT USED**

- .1 Not used.

**Part 2 Products**

**2.1 MATERIALS**

- .1 Grounding equipment to: CSA C22.2 No. 41.
- .2 Copper grounding conductors to: ASA G7.1.

**2.2 EQUIPMENT**

- .1 Non-corroding accessories necessary for grounding system, type, size, material as indicated, including but not necessarily limited to:
  - .1 Grounding and bonding bushings.
  - .2 Protective type clamps.
  - .3 Bolted type conductor connectors.
  - .4 Compression connectors – Burndy Type #YGHR-C (ground rod to cable) and #YGHC-C (cable to cable).
  - .5 Bonding jumpers, straps.
  - .6 Pressure wire connectors.

**Part 3 Execution**

**3.1 INSTALLATION – GENERAL**

- .1 Install a complete permanent continuous grounding system including electrodes, conductors, connectors, accessories, as indicated, to conform to requirements of Electrical Representative and Local Authority Having Jurisdiction over installation.
- .2 Install connectors to Manufacturer's instructions.
- .3 Protect exposed grounding conductors from mechanical injury.
- .4 Use mechanical connectors for grounding connections to equipment provided with lugs.
- .5 Soldered joints not permitted.
- .6 Install bonding wire for flexible conduit, connected at both ends to grounding bushing, solderless lug, clamp of cup washer and screw. Neatly cleat bonding wire to exterior or flexible conduit.
- .7 Install separate insulated green ground conductor in each conduit system. The conduit system will not be considered as providing an adequate ground.

- .8 Each motor shall be provided with a separate insulated (green) ground conductor originating at the panel or Motor Control Centre from which the motor is energized.

### **3.2 EQUIPMENT GROUNDING**

- .1 Install grounding connections to typical equipment included in, but not necessarily limited to the following list: Service equipment, transformers, switchgear, duct systems, frames of motors, motor control centres, starters, cable trays, control panels, building steel work, generators, elevators and escalators, and distribution panels.
- .2 Maximum resistance to ground: 5 ohms.

### **3.3 TESTS**

- .1 Perform tests in accordance with Section 26 05 01.
- .2 Perform ground continuity and resistance tests using method appropriate to site conditions and to approval of the Electrical Representative and Local Authority Having Jurisdiction over installation. Ground resistance to be maximum five (5) ohms prior to connections being completed at the ground grid.
- .3 Perform tests before energizing electrical system.
- .4 Disconnect ground fault indicator during tests.

**END OF SECTION 26 05 28**