

## **PART 1 GENERAL**

### **1.1 RELATED REQUIREMENTS**

- .1 Section 26 05 00.

### **1.2 REFERENCE STANDARDS**

- .1 CSA International
  - .1 CSA C22.2 No.42, last current edition, General Use Receptacles, Attachment Plugs and Similar Devices.
  - .2 CAN/CSA C22.2 No.42.1, last current edition, Cover Plates for Flush-Mounted Wiring Devices (Bi-national standard, with UL 514D).
  - .3 CSA C22.2 No.55, last current edition, Special Use Switches.
  - .4 CSA C22.2 No.111, last current edition, General-Use Snap Switches (Bi-national standard, with UL 20).

### **1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for wiring devices and include product characteristics, performance criteria, physical size, finish and limitations.
- .2 Shop Drawings:
  - .1 Submit drawings stamped and signed by professional engineer registered or licensed Province of Canada

### **1.4 CLOSEOUT SUBMITTALS**

- .1 Operation and Maintenance Data: submit operation and maintenance data for wiring devices for incorporation into manual.

### **1.5 DELIVERY, STORAGE AND HANDLING**

- .1 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .2 Storage and Handling Requirements:
  - .1 Store materials off ground, in dry location, indoors and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect wiring devices from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.

## **PART 2 PRODUCT**

### **2.1 SWITCHES (OF INDUSTRIAL CONSTRUCTION)**

- .1 15 A, 120 V, single pole switches to: CSA C22.2 No.55 and CSA C22.2 No.111.
- .2 Manually-operated general purpose AC switches with following features:
  - .1 Terminal holes approved for No. 10 AWG wire.
  - .2 Silver alloy contacts.
  - .3 Urea or melamine moulding for parts subject to carbon tracking.
  - .4 Suitable for back and side wiring.
  - .5 Ivory toggle.
- .3 Toggle operated fully rated for tungsten filament and fluorescent lamps, and up to 80% of rated capacity of motor loads.
- .4 **Industrial construction switches** of one manufacturer throughout project.

### **2.2 COVER PLATES**

- .1 Cover plates for wiring devices to: [CSA C22.2 No.42.1].
- .2 Sheet steel utility box cover for wiring devices installed in surface-mounted utility boxes.
- .3 Stainless steel, vertically brushed, 1 mm thick cover plates for wiring devices mounted in flush-mounted outlet box.
- .4 Cast cover plates for wiring devices mounted in surface-mounted FS or FD type conduit boxes.
- .5 Weatherproof double lift spring-loaded cast aluminum cover plates, complete with gaskets for duplex receptacles as indicated.

### **2.3 SOURCE QUALITY CONTROL**

- .1 Cover plates from one manufacturer throughout project.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for wiring devices installation in accordance with manufacturer's written instructions.
  - .1 Visually inspect substrate in presence of Departmental Representative.
  - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
  - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

### **3.2           INSTALLATION**

- .1       Switches:
  - .1       Install single throw switches with handle in "UP" position when switch closed.
  - .2       Install switches in gang type outlet box when more than one switch is required in one location.
  - .3       Mount toggle switches at height in accordance with Section 26 05 00 - Common Work Results for Electrical.
- .2       Cover plates:
  - .1       Install suitable common cover plates where wiring devices are grouped.
  - .2       Do not use cover plates meant for flush outlet boxes on surface-mounted boxes.

### **3.3           CLEANING**

- .1       Progress Cleaning:
  - .1       Leave Work area clean at end of each day.
- .2       Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment.
- .3       Waste Management: separate waste materials for recycling.
  - .1       Remove recycling containers and bins from site and dispose of materials at appropriate facility.

### **3.4           PROTECTION**

- .1       Protect installed products and components from damage during construction.
- .2       Protect stainless steel cover plate finish with paper or plastic film until painting and other work is finished.
- .3       Repair damage to adjacent materials caused by wiring device installation.

**END OF SECTION**