
PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 26 05 00 - Common Work Results - Electrical.

1.2 REFERENCES

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

1.3 SHOP DRAWINGS AND PRODUCT DATA

- .1 Submit shop drawings and product data in accordance with Section 01 33 00 - Submittal Procedures.

PART 2 - PRODUCTS

2.1 SWITCHES

- .1 Switches: SPDT 347 V in accordance with CSA C22.2 No. 55, Grade Heavy Duty Specification Grade.
 - .2 Switches: Manually operated, use universal AC having the following characteristics:
 - .1 Connection Ports: son to size 10 AWG.
 - .2 Contacts: Silver alloy.
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- .3 Elements molded in resin or melamine urea to counter the effects of carbon deposits.
- .4 Connection: Back or side.
- .5 Switches: Ivory color to normal network and red for the emergency network.
- .3 Switches: Rocker rated by the full load in the case of fluorescent lighting fixtures and bulbs, corresponding to 120% load, in the case of engines.
- .4 For entire Work, use only switches from a single manufacturer.

2.2 RECEPTACLES

- .1 Duplex receptacles, "Specification Grade" type, 125 V, 15 A, "U" ground, according to CSA C22.2 No. 42, Grade Heavy Duty Specification Grade with the following characteristics:
 - .1 Urea moulded housing ivory for normal network, red for the emergency network, and receptacles with isolated grounding to be colour orange.
 - .2 Suitable for No. 10 AWG for back and side wiring.
 - .3 Break-off links for use as split receptacles.
 - .4 Eight back wired entrances, four side wiring screws.
 - .5 Triple wipe contacts and riveted grounding contacts.
- .2 Outlets simple type CSA 5 15 R, 125 V, 15 A, "U" socket grounding, with the following characteristics:
 - .1 Molded resin urea ivory.
 - .2 For connection side or rear son size 10 AWG.
 - .3 Four rear connection ports, two screw terminals for connection side.
- .3 Other receptacles with ampacity and voltage as indicated in drawing.
- .4 Receptacles for cleaning, designed for 15 A and 20 A must be 5-20R configuration.
- .5 Receptacles of one manufacturer throughout project.

2.3 GROUND RECEPTACLE (GFI)

- .1 Double protected receptacle for 15 A circuit, 120 V, including:
 - .1 Leak detector land, semi-conductors.
 - .2 Test device and reset.
 - .3 CSA approved enclosure, mounted flush with stainless steel faceplate.

2.4 COVER PLATES

- .1 Provide cover plates for wiring devices according to CSA C22.2 No. 42.1 Standard.
- .2 Cover plates from one manufacturer throughout project.
- .3 Sheet metal cover plates for wiring devices mounted in surface-mounted FS or FD type conduit boxes.
- .4 Stainless steel, vertically brushed, 1 mm thick cover plates for wiring devices mounted in flush-mounted outlet box.
- .5 Cover plate: plate for wiring devices mounted in boxes for conduit type FS or FD, mounted projection.
- .6 Cover plate castings, aluminum, weatherproof, double-leaf spring with seals for double sockets, as shown in the drawing
- .7 Cover plate castings, aluminum, spring, weather proof, with gaskets for electrical outlets or switches simple as indicated in the plans.
- .8 Weatherproof double lift spring-loaded cast aluminum cover plates, complete with gaskets for duplex receptacles installed outdoor or in humid locations.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Switches:
 - .1 Install the switches to one lane so that the handle is up when the contacts are closed.
 - .2 Install switches in outlet boxes, when it takes more than one switch in one place. Provide accessories and mounts.

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- .3 Install toggle switches to the height prescribed in Section 26 05 00 - Common Work Results - Electrical for the results of Work or as directed by the drawings.
 - .4 Install the switches near the doors on the side of the handle.
 - .2 Receptacles:
 - .1 Install receptacles in gang type outlet box when more than one receptacle is required in one location.
 - .2 Mount receptacles at height in accordance with Section 26 05 00 - Common Work Results - Electrical or as indicated.
 - .3 Do not connect wiring only with screws.
 - .3 Ground Receptacle (GFI):
 - .1 The neutral must not be grounded on the load side of relay ground fault.
 - .2 The phase conductors including the neutral must pass through transformers homopolar field.
 - .3 Install receptacle at the height prescribed in Section 26 05 00 - Common Work Results - Electrical for the results of Work or as directed by the drawings.
 - .4 Connect the power wiring and load the appropriate equipment, as indicated, following the manufacturer's instructions.
 - .4 Cover Plates:
 - .1 Protect stainless steel cover plate finish with paper or plastic film until painting and other work is finished.
 - .2 Install suitable common cover plates where wiring devices are grouped.
 - .3 Do not use cover plates meant for flush outlet boxes on surface-mounted boxes.
 - .5 All the receptacles installed at less than 1 m from a wash basin or a sink must be protected by a GFI breaker at the panelboard or GFI receptacle.
 - .6 Do not install back to back outlets. A minimum 150 mm horizontal space must be left between boxes.
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3.2 TESTS

- .1 Demonstrate for receptacle ground (GFI) by simulating grounded fault.

END OF SECTION
