

PART 1 - GENERAL

<u>1.1 RELATED SECTIONS</u>	.1	Section 01 10 10 - General Instructions.
	.2	Section 01 33 00 - Submittal Procedures.
	.3	Section 26 05 01 - Common Work Results - Electrical.
<u>1.2 REFERENCES</u>	.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.111, General-Use Snap Switches (Bi-national standard, with UL 20, twelfth edition).
<u>1.3 SHOP DRAWINGS AND PRODUCT DATA</u>	.1	Submit shop drawings and product data in accordance with Section 01 33 00 - Submittal Procedures.
<u>1.4 WASTE MANAGEMENT AND DISPOSAL</u>	.1	Separate and recycle waste materials in accordance with Section 01 10 10 - General Instructions.
	.2	Remove from site and dispose of all packaging materials at appropriate recycling facilities.
	.3	Collect and separate for disposal paper plastic, polystyrene, corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
	.4	Divert unused metal and wiring materials from landfill to metal recycling facility as approved by Departmental Representative.

PART 2 - PRODUCTS

- 2.1 SWITCHES
- .1 15 A, 120 V or 347V, single pole, double pole, three-way, four-way 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.
 - .6 Commercial Specification Grade.
 - .3 Toggle operated fully rated for tungsten filament and fluorescent lamps, and up to 80% of rated capacity of motor loads.
 - .4 Switches of one manufacturer throughout project.
 - .5 Standard of Acceptance: Hubbell CSB 115I (120V) and Hubbell HBL 18221ICN (347V).
 - .6 Acceptable Alternates:
 - .1 Pass and Seymour.
 - .2 Arrow Hart.
- 2.2 RECEPTACLES
- .1 Duplex receptacles, CSA type 5-15R/5-20R, 125 V, 15/20 A, U ground, to: CSA-C22.2 No.42 with following features:
 - .1 Ivory or red (emergency power) urea moulded housing.
 - .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 rivetted grounding contacts.
 - .6 Commercial Specification Grade.
 - .2 Other receptacles with ampacity and voltage as indicated.
 - .3 Receptacles of one manufacturer throughout project.
 - .4 Standard of Acceptance: Hubbell BR15I.

2.2 RECEPTACLES
(Cont'd)

- .5 Acceptable Alternates:
 - .1 Pass and Seymour.
 - .2 Arrow Hart.

2.3 GROUND FAULT
RECEPTACLES (GFI)

- .1 Devices on normal power shall be White in color.
- .2 CSA type 5-20R, 125V, 20A, U-ground.
- .3 Ivory urea molded housing.
- .4 Suitable for # 10 AWG wiring.
- .5 Double wipe contacts and rivetted grounding contacts.
- .6 Specification grade.
- .7 Trip level: 4 to 6 mA. Trip time: 0.25 sec.
- .8 Meets UL 498 and UL 943 for Class A GFCI's. CSA certified.
- .9 Standard of Acceptance: Hubbell GF151LA.
- .10 Acceptable Alternates:
 - .1 Pass and Seymour
 - .2 Arrow Hart

2.4 COVER PLATES

- .1 Cover plates for wiring devices to: CSA-C22.2 No.42.1.
- .2 Cover plates from one manufacturer throughout project.
- .3 Stainless steel, 1 mm thick cover plates for wiring devices mounted in flush-mounted outlet box.

PART 3 - EXECUTION

3.1 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 01 - Common Work Results - Electrical.
- .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 01 - Common Work Results - Electrical as indicated.
 - .3 Where split receptacle has one portion switched, mount vertically and switch upper portion.
- .3 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.