

PART 1 - GENERAL

<u>1.1 SECTION INCLUDES</u>	.1	Switches, receptacles, wiring devices, cover plates and their installation.
<u>1.2 MEASUREMENT AND PAYMENT</u>	.1	Payment for provision of all items specified in this Section shall be by Lot Price. No separate payment will be made for work specified in the Contract Documents. All costs incurred by Contractor in meeting with the requirements of this Section shall be included in the bid price for the Work.
<u>1.3 RELATED SECTIONS</u>	.1	Section 26 05 00: Common Work Requirements - Electrical.
	.2	Section 26 05 32: Outlet Boxes, Conduit Boxes and Fittings.
	.3	Section 26 05 28: Grounding Secondary.
<u>1.4 REFERENCES</u>	.1	Canadian Standards Association (CSA)
	.1	CSA-C22.2 No.42-10, General Use Receptacles, Attachment Plugs and Similar Devices.
	.2	CSA-C22.2 No.42.1-00(R2009), Cover Plates for Flush-Mounted Wiring Devices.
	.3	CSA-C22.2 No.55-M1986(R2008), Special Use Switches.
	.4	CSA-C22.2 No.111-10, General-Use Snap Switches.
<u>1.5 SUBMITTALS</u>	.1	Submittals, product data and shop drawings shall be in accordance with Specification Sections 01 33 00 and 26 05 00.
<u>1.6 SOURCE OF SUPPLY</u>	.1	Each of the following shall be by one manufacturer:
	.1	All switches.
	.2	All receptacles.
	.3	All plates.

- 1.7 PRODUCT DATA .1 Provide manufacturer's literature including applicable reference standards, performance and test data for following products:
- .1 Switches.
 - .2 Receptacles.

- 1.8 COORDINATION .1 Coordinate installation of wiring devices and cover plates.
- .2 Coordinate installation of area switches.

PART 2 - PRODUCTS

- 2.1 SWITCHES .1 15, 20 or 30 A, 120 V or 347 V, single pole, double pole, three-way, four-way switches as specified.
- .2 Manually-operated general purpose ac switches with following features:
- .1 Terminal holes approved for No. 10 AWG wire.
 - .2 Silver alloy contacts.
 - .3 Suitable for back and side wiring.
 - .4 Ivory toggle
 - .5 Toggle operated locking fully rated for fluorescent lamps, and up to 80% of rated capacity of motor loads.
- .3 Switches of one manufacturer throughout project.

- 2.2 TIMER SWITCHES .1 15 or 20 A, resistive/inductive 120 V AC, single phase.
- .2 Covers: stainless steel for flush mounted devices.
- .3 Four preset buttons for 2, 4, 8, and 12 hours, neutral required.

- 2.3 OCCUPANCY SENSORS .1 Wall mounted type: passive infrared technology, flush mounted in flush single-gang box in wall by door to room.
- .2 Controls 120Vac lighting circuit in room; manual-on and auto-off by sensing of infrared energy from a moving human body has ended.

2.3 OCCUPANCY
SENSORS

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- .3 Delay-off timer, adjustable time 0.5 to 30 minutes.
- .4 Motion Sensitivity, adjustable.
- .5 Manual-on switch.
- .6 Compatible with electronic ballasts.
- .7 Colour: white

2.4 RECEPTACLES

- .1 Duplex receptacles, CSA type 5-15 R, 125 V, 15 A, U ground, to: CSA-C22.2 No.42 with following features:
 - .1 Ivory thermoplastic 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.
- .2 Single receptacles CSA type 5-15 R, 125 V, 15 A, U ground with following features:
 - .1 Ivory thermoplastic moulded housing.
 - .2 Suitable for No. 10 AWG for back and side wiring.
 - .3 Four back wired entrances, 2 side wiring screws.
- .3 Other receptacles with ampacity and voltage as indicated.
- .4 Receptacles of one manufacturer throughout project.
- .5 Receptacles to be sized according to related panel branch circuit breaker.

2.5 SPECIAL WIRING
DEVICES

- .1 Special wiring devices:
 - .1 Electric GFI outlets, 15 A, 125 V, ac.
 - .2 Electric T-slot outlets, 20 A, 120 V, ac.
- .2 Pilot lights as indicated, LED lamp.
- .3 60 Amp die cast welder socket, mechanically interlocked to provide insertion of withdrawal of plug under load.

2.6 COVER PLATES

- .1 Cover plates for wiring devices to: CSA-C22.2 No.42.1.
- .2 Cover plates from one manufacturer throughout project.
- .3 Sheet steel utility box cover for wiring devices installed in surface-mounted utility boxes.
- .4 Stainless steel, vertically brushed, 1 mm thick cover plates plastic ivory cover plates, thickness 2.5 mm for wiring devices mounted in flush-mounted outlet box.
- .5 Sheet metal cast cover plates for wiring devices mounted in surface-mounted FS or FD type conduit boxes.
- .6 Weatherproof double lift spring-loaded cast aluminum cover plates, complete with gaskets for duplex receptacles as indicated.
- .7 Weatherproof spring-loaded cast aluminum cover plates complete with gaskets for single receptacles or switches.
- .8 P touch labelling with circuit number and panel number for all outlet cover plates.

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 00.
- .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.
 - .3 Where split receptacle has one portion switched, mount vertically and switch upper portion.
- .3 Cover plates:

3.1 INSTALLATION
(Cont'd)

.3 (Cont'd)

- .1 Protect 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.