SECTION 26 05 19

WIRING DEVICES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes wall switches; wall dimmers; receptacles; multi-outlet assembly; and device plates and decorative box covers.

1.2 REFERENCES

A. NECA (National Electrical Contractors Association) - Standard of Installation.
B. NEMA WD 1 (National Electrical Manufacturers Association) - General Requirements for Wiring Devices.
C. NEMA WD 6 (National Electrical Manufacturers Association) - Wiring Devices - Dimensional Specifications.

1.3 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures.
B. Product Data: Submit relevant manufacturer's catalog information showing dimensions, colors, and configurations, marked to indicate options selected.

1.4 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

PART 2 - PRODUCTS

2.1 WALL SWITCHES

A. Product Description: NEMA WD 1, heavy-duty, AC only, spec grade snap switch.
B. Body and Handle: Ivory or white plastic with toggle handle.
C. Indicator Light: Separate pilot strap; color lens, color as indicated.
D. Locator Light: Lighted handle type switch; clear color handle.
E. Ratings:
1. Voltage: 120-277 volts, AC.

2.2 WALL DIMMERS

A. Product Description: NEMA WD 1; semiconductor dimmer for incandescent lamps, type as indicated on drawings.
B. Body and Handle: Ivory plastic with linear slide.
C. Voltage: 120 [____] volts.
D. Power Rating: Match load shown on drawings; 600 [____] watts minimum.
E. Power Rating: As indicated in schedule.
F. Accessory Wall Switch: Match dimmer appearance.

2.3 RECEPTACLES

A. Product Description: NEMA WD 1, heavy-duty spec grade receptacle.
B. Device Body: Ivory, white or red plastic.
C. Configuration: NEMA WD 6, type as specified and indicated.
D. Convenience Receptacle: Type 5-20.
E. GFCI Receptacle: Convenience receptacle with integral ground fault circuit interrupter to meet regulatory requirements.

2.4 WALL PLATES

A. Decorative Cover Plate: As indicated.
B. Jumbo Cover Plate: As indicated.
C. Weatherproof Cover Plate: Gasketed cast metal plate with hinged and gasketed device cover.
D. Rain Hood Cover Plate: Where outdoor outlet will be commonly in use provide rain hood cover plate.

2.5 MULTIOUTLET ASSEMBLY

A. Multi-outlet Assembly: Sheet metal channel with fitted cover, with pre-wired receptacles, suitable for use as multi-outlet assembly.
B. Receptacles: Provide covers and accessories to accept receptacles specified in this Section.
C. Receptacles: NEMA WD 6, type 5-15R, single receptacle.
D. Receptacle Spacing: As indicated.
E. Receptacle Color: Ivory
F. Channel Finish: Ivory enamel.
G. Fittings: Furnish manufacturer's standard couplings, elbows, outlet and device boxes, and connectors.

PART 3 - EXECUTION

3.1 EXAMINATION
A. Section 01 33 00 - Administrative Requirements: Coordination and project conditions.
B. Verify that outlet boxes are installed at proper height.
C. Verify that wall openings are neatly cut and will be completely covered by wall plates.
D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to wiring devices.

3.2 PREPARATION
A. Clean debris from outlet boxes.

3.3 INSTALLATION
A. Install in accordance with NECA "Standard of Installation."
B. Install devices plumb and level.
C. Install switches with OFF position down.
D. Install wall dimmers to achieve full rating specified and indicated after de-rating for ganging as instructed by manufacturer.
E. Do not share neutral conductor on load side of dimmers.
F. Install receptacles with grounding pole bottom.
G. Connect wiring device grounding terminal to outlet box with bonding jumper and branch circuit equipment grounding conductor.
H. Use jumbo size plates for outlets installed in masonry walls.
I. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted outlets.
J. In mechanical equipment rooms, illuminated timer light switches shall be provided.

K. Outlets shall be ivory or white.

3.4 INTERFACE WITH OTHER PRODUCTS

A. Coordinate locations of outlet boxes to obtain mounting heights specified and indicated on drawings.

B. Install wall switch 48 [__] inches above finished floor, unless otherwise noted.

C. Install convenience receptacle 18 inches above finished floor, unless otherwise noted.

D. Install dimmer 48 inches above finished floor, unless otherwise noted.

E. Coordinate the installation of wiring devices with underfloor raceway service fittings provided under underfloor raceway specification section.

F. Coordinate the installation of wiring devices with floor box service fittings provided under floor box specification section.

3.5 FIELD QUALITY CONTROL

A. Section 26 08 00 - Electrical Systems Acceptance Testing.

B. Inspect each wiring device for defects.

C. Operate each wall switch with circuit energized and verify proper operation.

D. Verify that each receptacle device is energized.

E. Test each receptacle device for proper polarity.

F. Test each GFCI receptacle device for proper operation.

3.6 ADJUSTING

A. Adjust devices and wall plates to be flush and level.

3.7 CLEANING

A. Clean exposed surfaces to remove splatters and restore finish.

END OF SECTION