SECTION 26 2726

WIRING DEVICES

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Receptacles.

1.2 RELATED SECTIONS

A. Boxes: Section 26 0534.

B. Identification: Section 26 0553.

1.3 REFERENCES

A. ANSI/NEMA WD 6: Wiring Devices - Dimensional Specifications.

B. NEMA WD 1: General Color Requirements for Wiring Devices.

C. UL 498: Attachment Plugs and Receptacles.

1.4 SUBMITTALS

A. Product data: Each type of device used in the project.

B. Field quality-control test reports.

PART 2 - PRODUCTS

2.1 RECEPTACLES

A. Acceptable manufacturers:

1. Arrow Hart/Eaton Wiring Devices
2. Hubbell/Bryant Electric
3. Legrand/Pass & Seymour (P&S)
4. Leviton Manufacturing Co.

B. Receptacles: NEMA 5-20R, 20-ampere rating, 125 volts AC, 2-pole, 2-wire plus ground, conforming to NEMA WD 1 and WD 6 configuration numbers, and UL 498.

1. Specification grade:

a. General-use, duplex:

(1) Basis of design: P&S TR5362, hard-use, tamper-resistant.

b. Ground-fault circuit-interrupter (GFCI) type, self-test, duplex:

(1) Basis of design: P&S 2097TR, tamper-resistant.

c. Ground-fault circuit-interrupter (GFCI) type for exterior and wet locations, duplex:

(1) Basis of design: P&S 2097TRWR, tamper-resistant, weather-resistant.

2. Hospital grade:

a. Tamper-resistant type, duplex:

(1) Basis of design: P&S TR8300H, heavy-duty, tamper-resistant.

C. Device colors:

1. Normal power receptacles: White.
2. Generator power receptacles: Red.

D. Device covers:

1. Wall plates: Smooth nylon, color shall match device color.

a. Basis of design: P&S smooth nylon, TP series, color shall match device color.

2. Wet-location, weatherproof cover, single-gang, extra-duty:

a. Basis of design: P&S WIUC10FRED, while-in-use, polycarbonate, frosted.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install devices in complete compliance with the manufacturer's recommendations.

B. Arrangement of devices: Unless otherwise indicated, mount flush with long dimension vertical. Group adjacent devices under single multi-gang wall plates.

C. Receptacles:

1. Install ground pin of vertically mounted receptacles up, and on horizontally mounted receptacles to the right.
2. Install hospital-grade receptacles in patient-care areas with the ground pin or neutral blade at the top.

D. Wall plates: Do not use oversized or extra-deep plates. Repair wall finishes and remount outlet boxes when standard wall plates do not fit flush or do not cover rough wall opening.

3.2 IDENTIFICATION

A. Comply with Section 26 0553 "Identification for Electrical Systems."

B. Identify receptacles, except 120-volt receptacles, with panelboard identification and circuit number. Use self-adhesive labeling.

3.3 FIELD QUALITY CONTROL

A. Perform tests and inspections and prepare test reports.

B. Tests and inspections:

1. After installing devices and after electrical circuitry has been energized, test for compliance with requirements.
2. Receptacles:

    a. Insert and remove test plug to verify that device is securely mounted.
    b. Verify polarity of hot and neutral pins.
    c. Measure line voltage.
    d. Measure grounding circuit continuity; impedance shall be not greater than 2 ohms.
    e. Healthcare facilities: Test straight-blade receptacles in patient care spaces with receptacle pin tension test instrument in accordance with NFPA 99. Retention force of ground pin shall be not less than 115 grams (4 ounces).

C. Correct malfunctioning devices on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new devices and retest.

D. Report results of tests and inspections in writing.

END OF SECTION