Section 262726 - WIRING DEVICES

1. GENERAL
   * + 1. DESCRIPTION
          1. This section describes wiring devices, plates, and blank plates for outlet boxes.
       2. SUBMITTALS
          1. Submit product data, shop drawings, and samples.
2. PRODUCTS
   * + 1. GENERAL
          1. Wiring devices shall be specification grade, with special devices as noted on the drawings. Should the drawings indicate a device other than those listed herein without reference to catalog number, such device shall be of the same grade and manufacturer as specified below. Furnish a matching cap for all special purpose devices that do not have the common 120V NEMA 5‑15R or 5‑20R configuration.
          2. All lighting switches and duplex receptacles installed shall be by the same manufacturer and shall be identical in appearance, unless noted otherwise.
       2. RECEPTACLES
          1. Acceptable Manufacturers: Arrow‑Hart, Bryant, Eagle, General Electric, Hubbell, Leviton, Pass & Seymour, Sylvania, or equal.
          2. General Application Duplex: 3‑wire, 2‑pole grounding, NEMA 5‑20R, grey nylon exposed finish, back and side wired, Hubbell 5362 series.
          3. UPS System Duplex: 3-wire, 2-pole grounding, NEMA 5-20R, black nylon exposed finish, back and side wired, Hubbell 5362 series.
          4. Emergency System Duplex: NEMA 5‑20R, lighted red nylon exposed finish, back and side wired, Hubbell 8300‑R series.
          5. Isolated Grounding Duplex: NEMA 5‑15R, orange nylon exposed finish, back and side wired, Hubbell IG‑5262 series.
          6. Ground Fault Interrupting Duplex: Feed through, NEMA 5‑20R, grey nylon exposed finish, Hubbell GF‑5362 series.
          7. Special Purpose Receptacles: As noted on the drawings. Provide with NEMA configurations.
       3. PLATES
          1. Acceptable Manufacturers: Arrow‑Hart, Appleton, Bryant, Eagle, General Electric, Hubbell, Leviton, Pass & Seymour, Sylvania, or equal.
          2. Flush Finish Plates: .040-inch thick, type 302 stainless steel, brush finish. Provide engraving as indicated on the drawings.
          3. Surface Galvanized or Cadmium Plated Steel: 1/2-inch raised industrial type with openings appropriate for device installed.
          4. Receptacle Weatherproof: Gasketed cast aluminum, double lift, cover mounted horizontally with hinges up, 3-1/4-inch internal depth, lockable. UL listed for wet locations with cord plug inserted. Red Dot Code Keeper Extra-Duty While-in-Use Cover series, or equal.
          5. Switch Weatherproof: Gasketed cast aluminum switch operator. Appleton FSK series.
          6. Tamperproof: Flush cast aluminum locking cover plate, cylinder type lock, master keyed, Pass & Seymour 4600 series.
       4. OCCUPANCY SENSORS
          1. Wall-Box Mounted: Passive infrared type, 180-degree coverage, automatic-on, 3-wire type (no minimum load), daylight override, adjustable time-out, and override off switch. Sensorswitch #WSD (line voltage), Sensorswitch #WSD-CU (low voltage), Wattstopper #WS, or pre-bid approved equal.
          2. Ceiling Mounted: Dual technology type, 360-degree coverage, automatic-on, adjustable time-out, low- or line-voltage as shown on the drawings, automatic gain control, surface mounted, with power pack as required. Sensorswitch #PDT-CM/CU-20, Wattstopper series WP1R, or pre-bid approved equal.
          3. Relay Output: Sensors shall provide a single pole double throw isolated relay contact for use by the HVAC control system.
3. EXECUTION
   * + 1. INSTALLATION
          1. Devices and finish plates shall be installed plumb with building lines. Wall-mounted receptacles shall be installed vertically at the centerline height shown on the drawings.
          2. Install finish plates and devices after final painting is complete. Scratched or splattered finish plates and devices will not be accepted.
          3. Special plugs, such as cord caps furnished with the receptacles, shall be furnished in their cartons.
       2. COORDINATION
          1. The drawings indicate the approximate location of all devices. Refer to architectural elevations, sections, and details for exact locations.
          2. Work with the equipment installer to coordinate the locations and methods of connection to devices mounted in or near cabinets, counters, benches and similar equipment.
       3. OCCUPANCY SENSORS
          1. Locate sensors to provide maximum coverage of the room, to operate as someone enters the room, and to avoid false operation due to persons outside the room passing an open door.
          2. Provide additional sensing heads as necessary to achieve complete coverage of each room.
          3. Set sensitivity as required to provide small movement coverage throughout the room without extending coverage beyond the room.
          4. Test system performance with the sensor timing set to the minimum time delay available. Once complete coverage of a given room has been demonstrated, set the delay to 15-minutes.
       4. FIELD TESTING
          1. Receptacles shall be tested for line-to-neutral, line-to-ground and neutral-to-ground faults. Correct any defective wiring.

END OF SECTION 262726