LOW-VOLTAGE POWER CONDUCTORS AND CABLES

This document is intended to note the Owners Design Requirements (ODR) for the titled specification section. Design professional to review and integrate ODR into the project's technical specifications. This ODR document should not be viewed as a standalone technical specification.

PART 1 - GENERAL REQUIREMENTS
N/A

PART 2 - PRODUCTS AND MATERIALS
- ♦ Conductor and cable applications
  - Metal-clad cable is permitted.
    - May be only be used where concealed above accessible ceilings for final connections from junction boxes to luminaires at a maximum length of 6 feet.
- ♦ Conductor and cable requirements
  - Provide copper conductors only. Aluminum conductors are not acceptable. Conductor sizes indicated are based on copper.
  - All exposed wiring that is not in use shall be removed (above or below grade). If the wiring is in use, it shall be installed in conduit.
  - All abandoned conductors shall be removed back to source.
  - All wiring shall be encased in conduit and identified (telephone, power, security, data, etc.)
  - All underground electrical over 600 volts shall be identified on the drawings with conduits encased in red colored concrete.
  - Telephone installations shall not have any components in common with power or lighting.
- ♦ Single conductor building wire
  - Conductor Stranding:
    - Feeders and Branch Circuits:
      - Size 10 AWG and Smaller: Solid.
      - Size 8 AWG and Larger: Stranded.
- ♦ Nonmetallic-sheathed cable
  - Conductor Stranding:
    - Size 10 AWG and Smaller: Solid.
    - Size 8 AWG and Larger: Stranded.
- ♦ Underground feeder and branch-circuit cable
  - Conductor Stranding:
    - Size 10 AWG and Smaller: Solid.
    - Size 8 AWG and Larger: Stranded.
- ♦ Metal-clad cable
  - Conductor Stranding:
    - Size 10 AWG and Smaller: Solid.
    - Size 8 AWG and Larger: Stranded.

PART 3 - EXECUTION
- ♦ Torqueing of feeders to panel boards, transformers, and switchgear shall be witnessed by a DOA representative.

END OF SECTION

Owner Design Requirements
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