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260513 - Medium Voltage Cable

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SECTION 26 0513 - MEDIUM VOLTAGE CABLE

PART 1 - GENERAL

- 1.1 The following Medium Voltage Cable components shall be submitted to UNH Facilities for approval:
 - A. Medium Voltage Underground Cable.
 - B. Medium Voltage Overhead Cable.
 - C. Low Voltage Cable below 600 volts.
 - D. Medium Voltage Terminations.
- 1.2 See Chapter 5, Division 01, Section 017700.1.1.B.1.i Closeout Procedures Project Record Documents for equipment list requirements for all equipment provided in this section.

PART 2 - PRODUCTS

2.1 UNDERGROUND CABLE

- A. EPR Power Cable 35000 volts: Single Conductor, Shielded, 100% Insulation Level, AEIC-CS-6, MV-90 or MV-105 Sunlight Resistant, CT, USE.
- B. ERP Power Cable 5000/8000 volts: Single conductor, Shielded, 133% Insulation Level, AEIC-CS-6, MV-90 or MV-105 Sunlight Resistant, CT, USE.
- C. Cable Components for both 5000/8000 & 35000 volt cable (A & B).
 - 1. Conductor to be copper wire only.
 - 2. Shielding to be copper tape only.
 - 3. All medium voltage underground cable shall be installed in conduit encased in reinforced concrete with minimum 3" cover top, bottom and sides.
 - 4. All medium underground cable runs shall include a full size bare stranded neutral conductor, run with the ungrounded insolated phase conductors.
 - 5. The minimum allowable wire size for 5kV shall be #2 AWG Stranded Copper.
 - 6. The minimum allowable wire size for 35kV shall be 1/0 AWG Stranded Copper.

2.2 AERIAL MEDIUM VOLTAGE

- A. ACSR Type Cable.
- B. Hendrix Cable System.

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April 23, 2015

- 2.3 AERIAL SECONDARY VOLTAGE
 - A. ACSR Type Cable.
 - B. Multiplex Type Cable.
 - 1. Duplex.
 - 2. Triplex.
 - 3. Quadruplex.

2.4 MEDIUM VOLTAGE TERMINATION

- A. Elastomeric Type shall be used.
- B. Single-Piece Terminators.
- C. Stress Cones.
- D. Splices.
- E. Loadbreak Elbows.
- F. Loadbreak Junctions.
- G. Cable Shield Adapters.
- H. Grounding Devices.

END OF SECTION 26 0513