

SECTION 270528- COMMUNICATION PATHWAYS

SECTION 270528 - PATHWAYS FOR COMMUNICATIONS SYSTEMS PART 1 - GENERAL

1.1 COMMUNICATION PATHWAYS DESCRIPTION

- A. Communications pathways consist of structures that conceal, protect, support, and provide access between telecommunication spaces (Work area outlets, ETR, and TR).

1.2 RELATED DOCUMENTS

- A. BICSI Telecommunications Distribution Methods Manual (TDMM), Thirteenth Edition.
- B. EIA/TIA-568-C: Communications Industry Testing standards.
- C. Section 260526: and Bonding for Communication
- D. Section 271300: Backbone
- E. Section 271100: Equipment
- F. Section 271500: Horizontal
- G. Appendix A

1.3 DEFINITIONS AND ACRONYMS

- A. BICSI: A professional association supporting the information technology systems (ITS) industry. www.BICSI.org
- B. Entrance Telecommunications Room (ETR): A space in which the joining of inter and/or Intra building telecommunications backbone facilities takes place. It is the TR where exterior cabling enters the building.
- C. IDC: Insulation displacement connector.
- D. RCDD: Registered Communications Distribution Designer.
- E. Telecommunications Room (TR): A space for housing telecommunications equipment, cable terminations, and cross-connect cabling. A space that joins the backbone and horizontal cabling for a building.
- F. EMT: Electrical Metallic Tubing.
- G. GRC: Galvanized rigid steel conduit.
- H. IMC: Intermediate metal conduit.

1.4 ACTION SUBMITTALS

- A. Product Data: For surface pathways, wireways and fittings, floor boxes, hinged-cover enclosures, and cabinets.

the following items are shown and coordinated with each other, using input from installers of items involved:

1. Structural members in paths of pathway groups with common supports.
2. HVAC and plumbing items and architectural features in paths of conduit groups with common supports.

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3.5 INSTALLATION OF OUTSIDE UNDERGROUND PATHWAYS

A. UNDERGROUND CONDUIT:

1. Minimum Pathway Size and Quantity from servicing manhole to Entrance. Minimum of four (4) to four (4) inch conduits.
 - a. Pathway Conduits must not exceed 40% fill ratio. If it is determined that additional conduit space is needed, then additional four (4) inch conduits should be added.
2. /v • š o o v } u } Œ š Z v š Z < μ] - Degree) bend(s in any pathway conduit.
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 - a. Separate lengths with access points using underground vaults or terminations at distribution frames or cabinets wh172.84710 n ET Q q 0.00000912 0 612 792 re W* n B