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**270000 Telephone and Data Rooms****GENERAL:**

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To provide minimum standards for Telephone and Data Rooms. See specific campus standards for more details.

Ensure construction drawings include details for all the proposed firestopping systems that could be encountered on the project based on the materials being used and the construction type and rating of the assemblies being penetrated. A specific Division 27 firestopping spec can be inserted, or reference related section 078400 for details.

**DESIGN GUIDELINES:**

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1. All telephone and data network topology will conform to EIA/TIA Building Telecommunications Wiring Standards.
2. Telephone and Data Rooms
  - 2.1. All telephone and data rooms should not be considered as potential locations for ancillary electrical equipment as well as basic termination of cable/wire/fiber.
  - 2.2. Size: minimum size requirements - 5' x 6' with door opening out or 5' x 8' with door opening into the room.
  - 2.3. Ceiling height: minimum 8' to ceiling grid or cable distribution system.
  - 2.4. Doorways: minimum size requirements - nominal 3' W x 6'-8" H. Must be equipped with a locking door. Handle to have a knurled finish.
  - 2.5. Location: minimum of one telephone/data room will be located on each floor. One room should be allocated for every 10,000 gross square feet of floor area. Distance limitations or other considerations may require more than one room. Rooms should be located as close to the core of the structure as possible and should be vertically stacked in multiple story buildings. Average cable runs should not exceed 150' with no single cable run exceeding 295'.
  - 2.6. Floor finish: install vinyl composition tile or use a concrete sealer.
3. Telephone and Data Equipment Rooms
  - 3.1. Telephone and data equipment rooms are special purpose rooms that serve space and environmental needs of large pieces of telecommunications and data equipment and may not be required in all buildings. The need for these rooms should be discussed with Campus Telecommunications and Campus Computing.
  - 3.2. Size: minimum size requirements - 15' x 15' (225 net square feet).
  - 3.3. Ceiling height: minimum 8'-6" to ceiling grid or cable distribution system.
  - 3.4. Doorways: minimum size requirements - nominal 3'W x 6'-8"H. Must be equipped with a locking door (may be integrated with building security system. Handle to have a knurled finish.
  - 3.5. Floor finish: install vinyl composition tile or use a concrete sealer.
  - 3.6. Floor loading: minimum 100 lbs/sf equipment load.

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- 3.7. Power: each closet must have a minimum of two 110V AC duplex outlets. Outlets must be separately fused, 20 amp, 3-wire grounding and on a nonswitched circuit. Outlets should be located below the termination board location, if known.