PART 1  GENERAL

1.1 Scope of work

1.1.1 The Contractor is held responsible to be familiar with the provisions contained herein and with other Sections of this Specification as applicable to the completion of the installation.

1.1.2 Work covered by this Section shall consist of furnishing labor, equipment, supplies, materials, and testing unless otherwise specified, and in performing the following operations recognized as necessary for the installation, termination, and labeling of all telecommunications cabinets, racks, frames, and enclosures as described on the Drawings and/or required by these specifications.

1.2 Intent of the drawings and specifications

1.2.1 These Specifications, together with the Drawings accompanying them, are intended to depict the installation requirements necessary to support this Project.

1.2.2 Contractor shall furnish materials shown and/or called for on the Drawings but not mentioned in the Specifications, or vice versa, that are necessary for the installation and support of the described work, whether or not specifically called for in both.

1.2.3 Contractor shall provide incidental equipment and materials required for the completion of systems included in this contract whether or not specified or shown on the Drawings.

1.3 Communication

1.3.1 It is Purdue’s expectation that the A/E of Record will work jointly with Purdue’s Telecommunication representatives to address specific technical issues and Owner requirements.

1.3.2 All questions, deviations, comments concerning guideline(s) interpretation, content, and/or use must be submitted in writing to the Project Manager for approval.

1.3.3 No deviations from these guidelines shall be incorporated into the project without written approval from the Project Manager and Purdue Telecommunications representative.

PART 2  PRODUCTS

2.1 Equipment Frames shall be owner-approved 19” wide x 7'-0” high, aluminum construction powder coated black.

2.2 Junction plate at top of equipment frame shall be able to accommodate runway in parallel or perpendicular arrangement and shall provide adequate support to stabilize the frame.

2.3 Remote equipment cabinets for departmental cabling shall be Hubbell #RE2 or Owner approved equal for data connections under 24 ports/outlets.

2.4 Remote equipment cabinets for departmental cabling shall be Hubbell #RE4 or Owner approved equal for data connections between 25-72 ports/outlets.

2.5 Remote equipment cabinets for small telecommunications rooms (ITAP) shall be Hubbell #RE4X or Owner approved equal for voice and/or data connections between 25-72 ports/outlets.

PART 3  EXECUTION

3.1 Equipment Frame Installation

3.1.1 Provide equipment racks as needed to mount patch panels, equipment, etc. as specified herein.
3.1.2 Provide a junction plate at top of equipment rack and required cable runway to attach rack to cable runway around the perimeter of the telecom room.

3.1.3 The completed equipment frame will be affixed to the floor using drop-in anchors and 5/8” zinc-plated hex bolts, split and flat washers. Place the equipment frame in the telecom room to ensure that it is aligned with existing equipment frames, or such that the “front” mounting holes on the channels of the equipment frame are installed with the long axis 4 feet from the parallel wall, and space allowing, 3 feet from any adjacent wall. This is to ensure at least 36 inches of clearance completely around the equipment frame once termination and electronics are installed in the equipment frame.

3.1.4 Install the junction plates above all equipment racks and attach to cable runway that is installed around the perimeter of the telecom room. Junction plate must be fastened to frame without using “J” bolts so that no equipment space is lost.

3.1.5 Confirm equipment frame location with Purdue’s IT Infrastructure Services Representative prior to installation unless exact location is shown on the drawings.

3.2 Remote Equipment Cabinets

3.2.1 Provide remote equipment cabinets as needed to mount patch panels, equipment, etc. as specified herein or as shown on drawings.

3.2.2 Remote equipment cabinets shall contain horizontal cable management for patch panels similar to frame mounted installations.

3.2.3 Cabling distributed from a remote equipment cabinet within a room shall not leave the room.