SECTION 16711 - 27 05 28.34 PULL AND JUNCTION BOXES FOR COMMUNICATIONS SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

A. This section includes Labor, materials and equipment necessary to complete the installation required for the items specified under this Section, including but not limited to:

1. Pull and junction boxes
2. Outlet box covers

1.02 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. Specifications throughout all Divisions of the Project Manual are directly applicable to this Section, and this Section is directly applicable to them.

C. Section 27 05 28.28 – Firestopping Telecommunication and Data Cabling

D. Section 27 05 28.33 – Conduits and Backboxes for Communications Systems

E. Section 27 05 53 – Identification for Communications Systems

1.03 REFERENCE STANDARDS

A. National Electrical Code (NEC)

PART 2 - PRODUCTS

2.01 GENERAL

A. All materials shall meet or exceed all applicable referenced standards, federal, state and local requirements, and conform to codes and ordinances of authorities having jurisdiction.

2.02 PULL AND JUNCTION BOXES

A. Pull and junction boxes shall be qualified by an independently approved testing facility for use with the compatible raceway system.

B. All pull and junction boxes shall be covered.

C. All junction boxes are Nema 1, screw cover, unless otherwise stated.

D. Surface/flush mount junction box hinged doors:

1. Access doors shall be constructed of a one piece assembly which will include the frame and mounted door.

2. Door hinging shall be installed in such a way so that the hinge will not be visible when the box is closed from the access area.
3. The door shall close against the frame to produce a single even surface plane on the access side.

4. The door assembly frame shall be at least ¾” wider around the outside dimensions of the box it is covering.

5. The screws which attach the door frame shall be flush with the surface of the frame when installed.

6. The door opening in the frame shall allow at least a 95% access to the box behind.

7. The cover latch of the door shall be a flush latch which may be opened by a flat blade screwdriver.

E. Provide knockout closures for unused openings.

PART 3 - EXECUTION

3.01 REQUIREMENTS

A. Coordinate the location and support devices with the ceiling support system and mechanical ducts and pipes.

B. Locate pull boxes and junction boxes above accessible ceilings or in unfinished areas.

C. For 1" conduit runs, a minimum of a 8" box shall be used.

D. For 1 ¼" conduit runs, a minimum of a 12" box shall be used.

E. Any conduit sizes larger then 1 ¼" require pull box specifications and approval from the designated Owner’s network representative.

F. For multiple outlet runs or racked runs using a shared pull box the location and specification of the box shall be approved by the Owner’s designated network representative.

G. Conduit entering a pull box on one side shall leave the box from the opposite side.

END OF SECTION 16711 - 27 05 28.34