

SECTION 271100 - COMMUNICATION RACEWAY SYSTEM

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Base and Alternate Bids:
 - 1. Contractor Provide:
 - a. Voice system raceways and boxes.
 - b. Data system raceways and boxes.
 - c. Device backboxes.
 - d. Conduit for system in exposed work.

1.2 QUALITY ASSURANCE

- A. Install work in accordance with NEC and Division 26 specifications.

1.3 PROJECT RECORD DOCUMENTS

- A. Submit record documents under provisions of Division 1.
- B. Accurately record location of all communications and low-voltage system outlets and boxes and routing to designated communications closet.

PART 2 - PRODUCTS

2.1 LOW VOLTAGE J-HOOKS

- A. Description: Pre-galvanized steel cable hook designed for support of low voltage cabling. Provide appropriate cable hook configuration for location installed.
- B. Size: 2" and 4" as required to accommodate cabling to be installed plus 20% spare.
- C. Hooks shall be supported from structural elements with minimum one (1) mechanical fastener (screw or anchor). Devices designed for friction-fit attachment are unacceptable.
- D. Sheet Metal Outlet Boxes: ANSI/NEMA OS 1, galvanized steel, sized as shown on drawings. Boxes shall be 4"x4" with gang(ed) cover as needed. Deep masonry type boxes may be used in masonry walls.
- E. J-Hooks shall only be used above accessible ceilings. In areas of exposed structure, all cabling shall be run in conduit.

2.2 BACK BOXES – REFER TO SECTION 260534 FOR BOX SPECIFICATIONS

- A. Communications back boxes shall be deep two-gang box with a single gang extension.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that surfaces are ready to receive work.
- B. Verify that field measurements are as shown on Drawings.
- C. Beginning of installation means installer accepts existing conditions.

3.2 INSTALLATION

- A. Support raceways, backboards, and cabinets under the provisions of Section 260529.
- B. Install termination backboards plumb, and attach securely at each corner and at intervals no greater than 36".
- C. Install outlet boxes at telephone, data, and combination outlet locations shown on drawings. Provide raceway indicated to above accessible ceilings. Provide bushing at termination of conduit above ceiling.
- D. Install pull wire or polyethylene pulling string in each empty conduit.
- E. Mark all backboards and cabinets with system served, i.e. "VOICE", under the provisions of Section 260553.
- F. Install faceplates on all sheet metal outlet boxes.
- G. Install sheet metal outlet boxes 18 inches above finished floor (18" A.F.F.), U.N.O.
- H. Install sheet metal outlet boxes for wall phones 48 inches above finished floor (48" A.F.F.).

END OF SECTION 271100