

SECTION 27 11 13 – ENTRANCE FACILITIES**PART 1 GENERAL****1.01 DESCRIPTION**

- A. The Demarc/MPOE location for utilities use in the building shall be indicated on the plans.
- B. All requirements set by the appropriate Utility are to be met. If customer owned cable plant is entering the building both ends of the cable will be covered by this specification and industry standard for protection. See Section 27 13 00 for additional requirements on Exterior Cabling.
- C. All equipment, sleeves, bushing, fire-stop and accessories needed to make this a safe and useable area whether specified or not are to be a part of the contractor's submittals and implemented in the space.

1.02 QUALITY ASSURANCE

- A. All equipment shall be UL listed. All installations shall comply with the NEC.
- B. Refer Section 27 01 00 for additional requirements.
- C. Coordinate any work in this space with other trades that will be utilizing space in this area.

1.03 SUBMITTALS AND PRODUCT DATA

- A. Include shop drawings depicting wiring and connection diagrams in addition to the requirements in other parts of this Specification.

PART 2 PRODUCTS**2.01 MATERIAL**

- A. $\frac{3}{4}$ "x 4' x 8' sheet of AC grade plywood. If utility requires use Fire-rated plywood, per utility requirements.
- B. #6 AWG. Solid ground wire.
- C. D-Rings
- D. Conduit
- E. Fire-Stop
- F. Label Copper
 - 1. Self-laminating cable marker holders.
 - 2. Panduit part SLCT or approved equal.
- G. Label Fiber
 - 1. Self-laminating fiber optic marker holder rigid tag.
 - 2. "Warning/Caution Fiber Optic" is to be manufacturer printed on the label.
 - 3. Panduit part PST-FO or approved equal.

PART 3 EXECUTION**3.01 EQUIPMENT ROOM**

- A. If fire-rated plywood is used it is to be attached with the stamp showing. The plywood is to be attached to the building structure, toggle bolts are not an acceptable means of support.
- B. Conduits that are placed within the space that penetrate into adjacent areas will be done so in a way to maintain the Fire-Rating required.

- C. Grounding is required to meet applicable codes and as required by Utilities. All Protection Entrance Terminals shall be grounded to main building ground.

3.02 CABLES

- A. All Cables within the Equipment room shall be routed to avoid any electrical interference. Location of devices shown on plans are for reference only, they do not designate the layout of the space.
- B. Cables are to be run through D-Rings leaving room for growth.
- C. Cables will be supported and secured in a professional manner.
- D. Any Cable-run through, within, or terminating in the space will be labeled with a To-From indication.
- E. Any outdoor cable shall be spliced to interior grade within a proper sized splicing device within 50' after leaving the conduit to comply with applicable codes.

PART 4 - DOCUMENTATION

4.01 LABELING

- A. All cables terminating within the Equipment Room are to be labeled as close to where the cable sheath has been removed with the label still being visible.
- B. Labeling will be done with a P-Touch or some other means of mechanical printing device.
- C. Labeling that is used on the cables is to be the same as the labeling shown on the as-builts to be submitted at the end of the project.
- D. All cable 25 pair or larger shall utilize the Self-laminating cable marker the marker shall have printed To-From locations and pair count by means of P-touch or other mechanical printing device.
- E. All fiber optic cabling shall utilize the Self-laminating fiber optic marker tag, the marker shall have printed To-From locations and pair count by means of P-touch or other mechanical printing device. The tag shall be attached to the inner-duct, if over 5' from leaving inner-duct to entering fiber optic shelf the fiber shall be labeled again just before entering shelf or other termination location.

END OF SECTION