

USE: Installation option for metering equipment on customer owned poles.

## SERVICE ENTRANCE ON CUSTOMER OWNED SMALL WIRELESS FACILITY (SWF) OR LIGHT POLE




These requirements apply to any request by a cable television system or provider of telecommunication service to co-locate metering equipment on a customer owned SWF or governing agency owned street light pole. All requests to attach metering equipment to a customer owned pole must be submitted by utilizing TEP's Service Application process. Approval from Company Design Services is required prior to installation of any such facility.

**GENERAL NOTES:**

1. Attachment of metering equipment to any pole where Service Provider owned area lighting and/or electric distribution or transmission wires are attached, is not allowed.
2. Location of pole and side of pole where service entrance is to be attached, shall be mutually agreed upon between the Customer and Design Services.
3. Designated Point of Service per this standard will be the the customer installed sub-grade pedestal.
4. Service entrance panel shall be mounted on the customer owned pole parallel to the sidewalk or roadway to prevent interference with pedestrian traffic. Installation shall be on the pole side opposite on-coming traffic to support safety of Company employees during installation and maintenance of the meter.
5. Metered and un-metered wires shall be separated by a suitable barrier and shall not pass through the same section(s) of the service entrance. Barrier(s) shall be metallic, 16 gauge minimum.
6. Protective meter cover will be required, at customer's expense, if Service Provider determines that excessive vandalism occurs to meter. Notification will be provided and 30 days allowed for installation of a protective meter cover.
7. Do not trench under Company owned pad-mount equipment without Service Provider personnel present. Service Provider's access crew can be scheduled to assist with conduit placement and/or if trenching is required under company owned equipment. Arrangements must be made by calling 520-918-8300 (TEP) or 520-761-7951 (UES), a minimum of five working days in advance.
9. Other utilities are not permitted to pass underneath any Company equipment.
10. Refer to SR-108 for Right-of-Way and Easement requirements.

**CUSTOMER RESPONSIBILITIES:**

1. Ensure pole is engineered to support weight and allow for solid attachment of metering equipment. Pole shall comply with applicable wind/seismic code requirements as required by the Authority Having Jurisdiction (AHJ).
2. Purchase, install and maintain meter socket per the Company SR-400 Series standards. Ringless sockets are not acceptable. All meter sockets shall be mounted between 3'-6" minimum and 6'-3" maximum from final grade to the center of the meter.
3. Provide a 17" x 30" (H-20 Rated Junction Box) sub-grade pedestal, refer to SR-308, FIGURE 1, for approved manufacturers.
4. Provide a service disconnecting device which meets all requirements of the current National Electric Code (NEC). The operation of the device shall be such that the neutral (grounded conductor) is not broken when the device is opened. The operating handle or member shall be capable of being sealed either open or closed.

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### CUSTOMER RESPONSIBILITIES (continued):

5. The service disconnect shall be effectively grounded in compliance with the National Electrical Code (NEC) and applicable requirements of local governmental codes (AHJ).
6. A test-bypass block with rigid insulation barriers shall be furnished, installed and wired or bussed to the meter socket by the manufacturer. Connection sequence is LINE-LOAD from left to right. Each line and load position shall be clearly identified by 3/4 inch minimum block letter labeling. Test-bypass cover panels shall be sealable and fitted with a lifting handle. All panels exceeding 16 inches in width shall require two lifting handles.
7. Communication riser(s), on Service Provider pole, shall be installed in compliance with SR-805.
8. Provide and install a continuous 2 1/2 inch conduit run from Service Provider pad-mount transformer, pedestal or pole to sub-grade pedestal (Point of Service). Trench depth to be 36 inches. Conduit sweeps into existing equipment shall be 2.5" x 36" x 90 degree, grey PVC Electrical Grade, Schedule 40. The total of all deflections shall not exceed 360 degrees in any continuous duct run between outlets. Refer to SR-205 (duct/concrete and mandrel pull), SR-207 (bedding and backfill), SR-209 (trenching and conduit) and SR-220 (riser).
9. The customer is to provide and install the service cable under the supervision of a Company Access Crew. An outage may be required. The conductor size shall have a range of #6 - 350kcmil, in order to connect to the Company supplied connectors at the Point-of-Service. The neutral conductor is to be identified with white tape at both ends for 3 inches in length. An address tag (Dymo aluminum embossing tape or similar) shall be attached to the neutral conductor at the Point-of-Service. The customer owned service cable shall be in compliance with the National Electrical Code (NEC) and applicable requirements of local governmental codes (AHJ).

### SERVICE PROVIDER RESPONSIBILITIES:

1. Specify location for sub-grade pedestal, which will be considered the Point of Service, location of pedestal will normally be 7 to 12 feet from pole, in a non-traffic area.
2. If service is provided from a pole, provide and install continuation of duct on Company owned pole and ground the metal riser.
3. Provide, install and maintain service conductor from Company pad-mount transformer, pedestal or pole to a customer installed sub-grade pedestal (Point of Service). Upon connection to the Company's distribution system, the sub-grade pedestal will be maintained by the Service Provider.
4. Provide, install and maintain meter.
5. Design Services will document in Company mapping system that conductor from Point of Service to the Service Entrance is customer owned.

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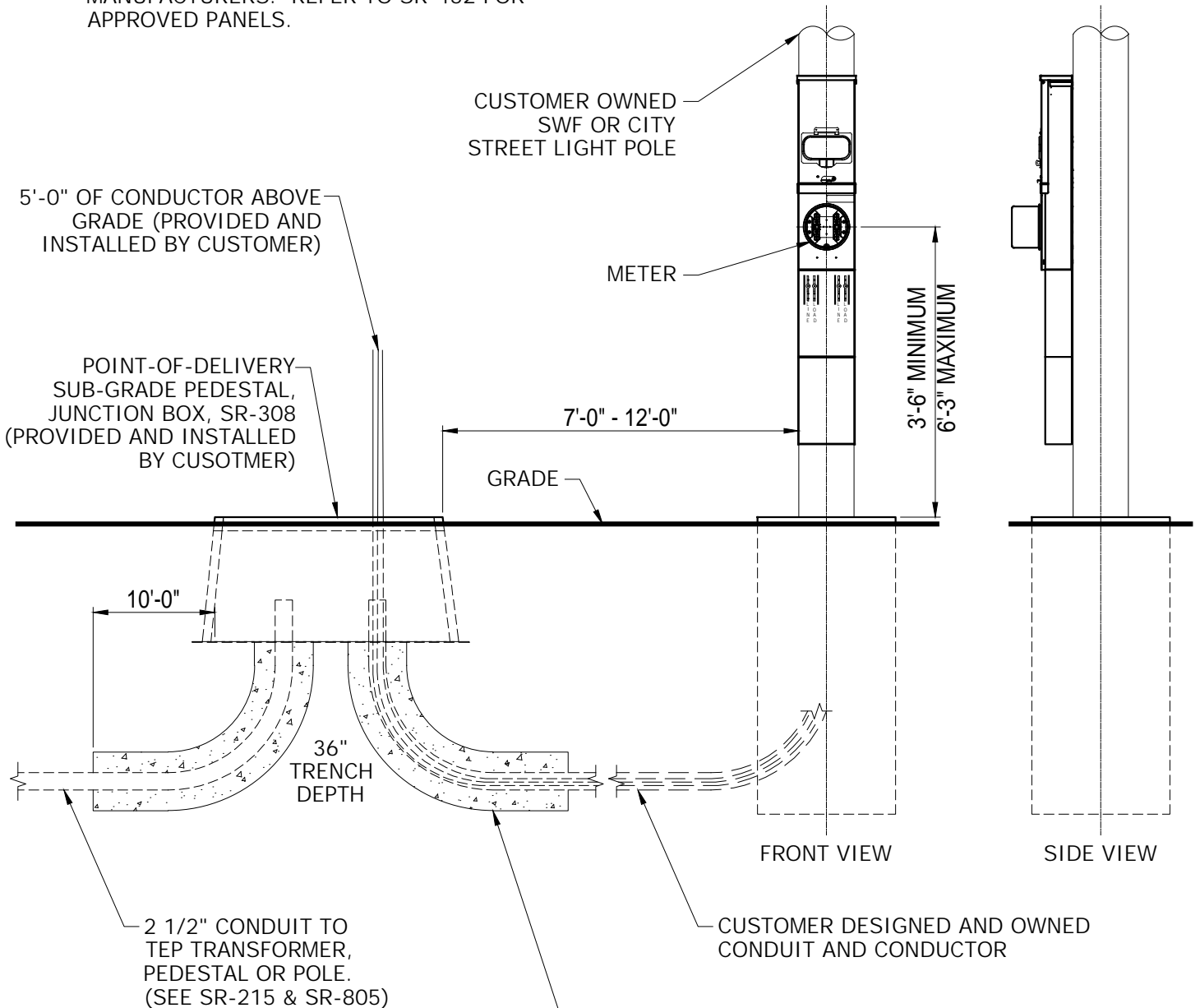
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NOTE:  
SERVICE ENTRANCE SHOWN FOR REFERENCE  
MAY NOT DEPICT CONFIGURATION OF ALL  
MANUFACTURERS. REFER TO SR-452 FOR  
APPROVED PANELS.

DIRECTION OF  
TRAVEL FOR  
NEAREST TRAFFIC  
LANE



3" MIN. - 5" MAX. CONCRETE ENCASEMENT FOR ALL DUCT SIZES (SEE SR-205). CONCRETE ENCASEMENT IS REQUIRED IF A CONDUIT RUN IS MORE THAN 150 FEET IN LENGTH, OR ANY LENGTH WITH A COMBINATION OF 270 DEGREES (OR MORE) OF BENDS, NOT TO EXCEED 360 DEGREES.

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