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10. Special Installations

This chapter discusses special installations, that must be approved in writing by the Power Company before installation. The customer shall consult the Power Company on these special installations. All special installations covered in this section shall adhere to applicable requirements of this manual.

10.1 Street Lighting

Requirements:

1. The customer shall consult the Power Company on the junction box location, pedestal location, conduit location, and digging prior to installation.
2. The customer shall provide and install a junction box or pedestal, conduit, disconnect (fusing), a disposable lock, and customer-owned wire.
3. Any customer-owned metallic equipment within 72 inches (72″) of the Power Company's metallic equipment shall be bonded.
4. The minimum dimensions of the junction box are 11 ¾″ wide (at the top), 17″ long, and 12″ high and must be strong enough for incidental traffic areas.
5. Streetlight facilities with associated electrical outlets shall be metered.
6. The customer shall provide all conduit from the Power Company source to the customer-provided junction box or pedestal.
7. The customer's junction box or pedestal shall be located as shown in Figure 63.

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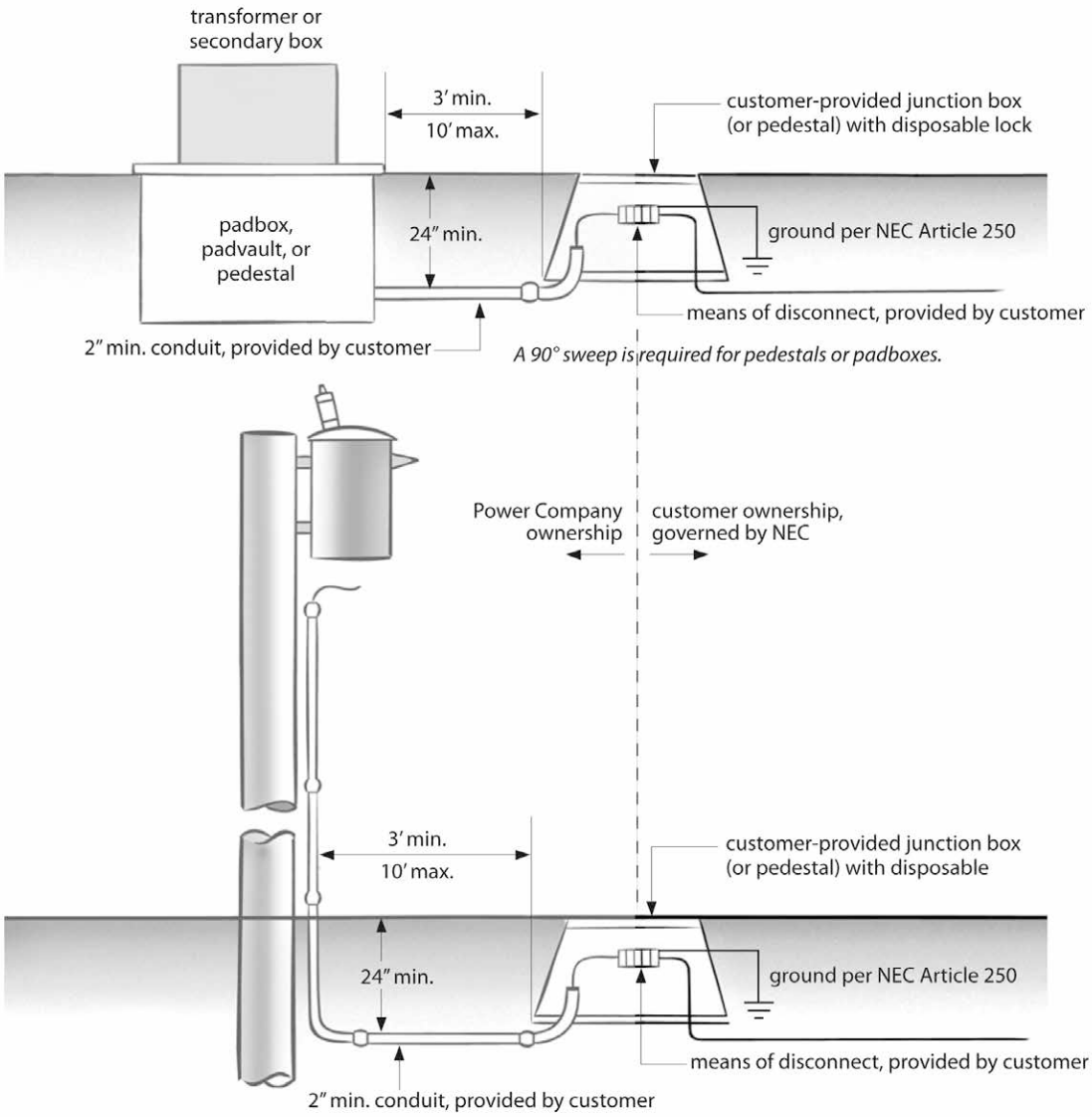
Figure 63—Street Lighting Points of Connection Diagram



More information on streetlights is posted online at:
www.pacificpower.net/ed/streetlights/im.html and
www.rockymountainpower.net/ed/streetlights/im.html.

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10.2 Multi-Use Buildings

This section applies to mixed commercial and residential services such as high-rise residential buildings and residential/retail developments. The Power Company may provide different service voltages: typically 120/208 V for residential and light non-residential services,and 277/480 V for non-residential services.

Requirements:

1. Where the customer requests an indoor service point, it shall be located as close to the transformer as possible.
2. Meter centers for residences shall be located in mutually-agreed-upon locations (for example, on every third floor of a high-rise building).
3. Service entrance overcurrent protection is required at the service point.

10.3 Meter Rooms

Meter rooms are required in certain installations such as upper-story metering facilities. A written agreement will be provided to the customer by the Power Company based on the requirements below.

Requirements:

1. The door to the meter room shall open outward and shall have a panic bar.
2. Multiple meter rooms in high-rises should be located close to an elevator.
3. Access to meter rooms is shared by the customer and the Power Company. The customer shall provide the Power Company with an access key, and the Power Company will provide the lock box.
4. Only metering, service entrance, communications, and electronic equipment that supports the electrical service shall be installed in the meter room.
5. The meter room shall not be used for storage.
6. A 120 V outlet shall be available for Power Company use in the meter room.
7. Provisions for a communication raceway shall be considered during design and construction, and shall be installed by customer if required by the Power Company.
8. The meter room shall have adequate lighting in all work spaces.

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9. Meter rooms for a single metered service, or for any building with only one meter room, shall:
   a. be located on the side of the building closest to the Power Company source.
   b. have a door that opens to the exterior of the building.
   c. not provide any access to the rest of the building.
   d. be located on the exterior wall of the building.
   e. be located on the same level as the Power Company source.
10. Meter rooms containing equipment servicing primary voltage (600 V and above) will have additional requirements; consult the Power Company.

10.4 Meter Access Platforms

In flood plains or other locations where the center of the meter socket is greater than 72 inches (72″) above ground level, a suitable platform and stairs shall be provided and maintained by the customer for meter access.

Requirements:

1. The deck of the meter platform shall maintain applicable clearances from equipment as specified in Section 4.
2. The customer shall provide permits and plan and profile drawings, approved by the authority having jurisdiction, for Power Company review prior to installation.
3. The customer shall obtain all land use approvals required for a meter access platform.

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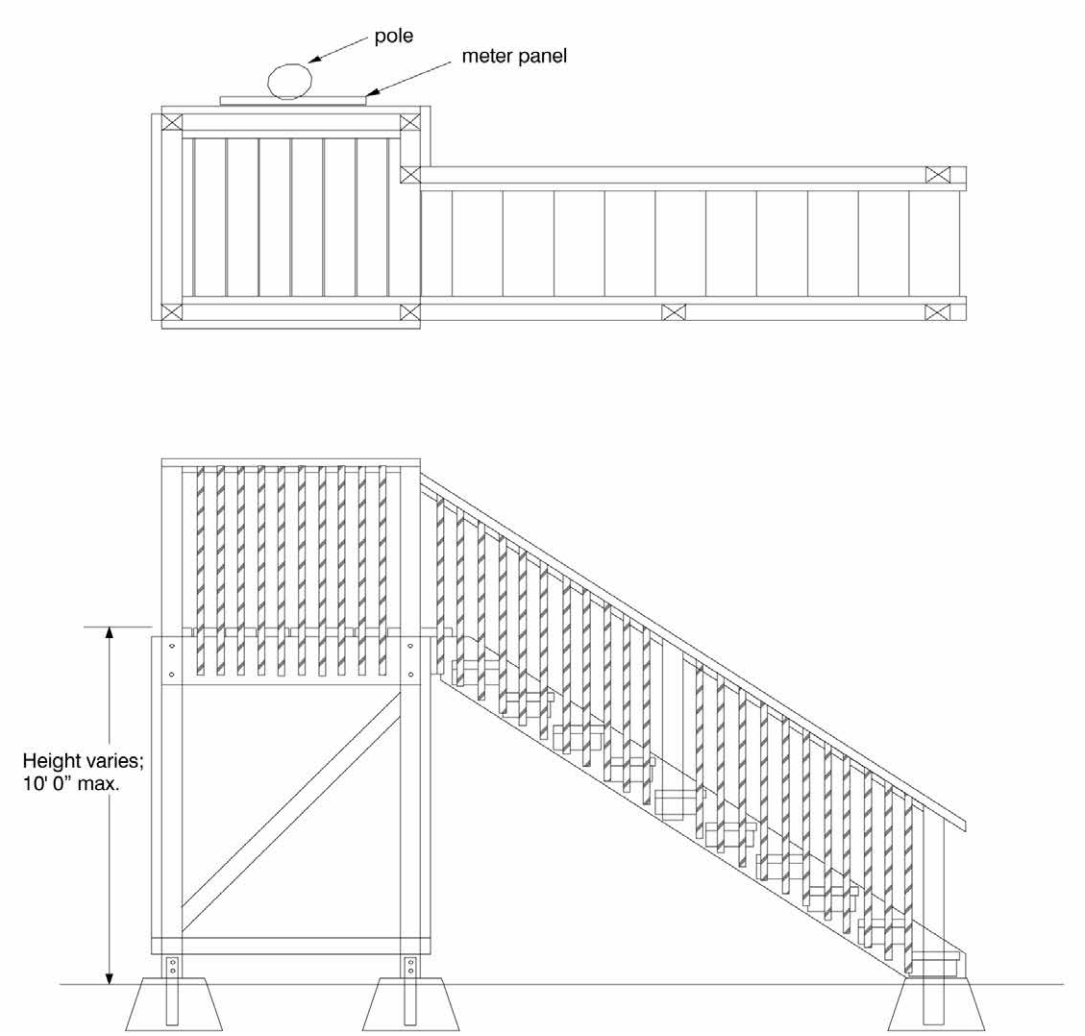
Figure 64—Typical Meter Access Platform, Customer-Installed (Example)



10.5 Marinas

The following specific requirements apply to electrical service to marinas.

Requirements:

1. Metering equipment shall be located on land, above the flood plain.
2. Meter mounting structures shall be constructed of materials suitable for the environment.

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10.6 Kiosks and Skid-Mounted Structures

Skid-mounted portable structures, such as kiosks, require a free-standing meter enclosure with a non-residential meter socket.

10.7 Electric Vehicle Charging Stations

Charging facilities shall comply with all local, state, and national codes and regulations, regardless of the type of installation. The customer is responsible for obtaining all required permits from local authorities.

Electric Vehicle (EV) requirements continue to undergo rapid change. Power Company requirements in this manual shall apply until specific EV requirements are established.

See ESR White Paper 10—Electric Vehicle Charging Stations.

10.8 Recreational Vehicles (RV's)

Services to recreational vehicles are considered non-residential and all non-residential requirements shall apply. Recreational vehicle parks are a general service and are metered at strategic locations depending on demand and geography. The Power Company determines the point(s) of service. Recreational vehicles shall not be individually metered in a recreational vehicle park.

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