



Appendix A - Danvers Electric Temporary Service Methods

Revision ID	Date	Notes	Approval (initials and date)
1.0	12-6-2011	The purpose of Version 1 is to release the methods commonly used to install temporary service by DE	MLB 06/19/2012

Method 1: Overhead Temporary Service

Overhead temporary services are connected from existing or newly constructed DE overhead distribution facilities with overhead service cable and connections from the DE pole to the temporary service structure erected and wired by the customer. This is the most common temporary service, when there are overhead poles and wires in the vicinity of the new construction.

If no overhead lines are present in the area a DE representative will meet with the customer at the site to determine how best to supply the temporary service. Information gathered at this meeting will be used to estimate the total customer temporary service fee.

Specific Method 1 Temporary Service Requirements:

- DE shall specify the location of temporary service pole or beam structure. Any structures installed prior to the DE visit and locating are subject to relocation.
- Locations for the temporary structures feed from the overhead shall be placed no less than 10' from the existing DE pole but less than 100' from the DE pole.
- Temporary structures feed from the overhead will be a minimum of 20' in length, with a top diameter (or width) of 6" of sound wood. 6" X 6" Pressure treated beams work well. See Appendix H, Figure
- The temporary structure will be set no less than 4' into the earth and back filled and tamped to secure the structure.
- The temporary structure must be back-guyed or adequately braced to support 400 lbs. of tension. Minimum bracing requires at least two 2" x 4" braces attached securely no more than 6' below the top of the temporary service, staked into the earth 10' from the base of the temporary service. Braces are at a 90° angle to each other.
- A service attachment point for the service wire will allow for the minimum height above ground for the attachment to be 15 feet.
- All applicable NEC and NESC codes shall be followed during the erection of the temporary service, including but not limited to ground rods, grounding, and clearances over traveled ways, roadways, attachment of the service cable, etc.
- Temporary service locations shall have the address (i.e. 101 Main Street, Lot3) clearly and permanently marked on the meter structure so as to be legible from the nearest traveled way.
- Temporary service locations shall be placed so the electric meter faces the traveled way.
- Note – surplus/junk equipment such as 60 Ampere sockets or 60 Ampere fuse panels are not acceptable for temporary services.

Method 2: Underground Temporary Service

The DE facilities are underground and the customer will be required to connect to those facilities. This may include a secondary hand hole or transformer. The customer will erect a temporary wood post that will support the required meter, breakers and outlets.

Specific Method 2 Temporary Service Requirements:

- DE shall specify the location of temporary service post. Any structures installed prior to the DE visit and locating are subject to relocation.
- Locations for the temporary service post from the UG source of power will be a maximum of 15 feet.
- Temporary posts will be a minimum of 10' of sound pressure treated 6 X 6 lumber.
- The temporary structure will be set no less than 4' into the earth and back filled and tamped to secure the structure.
- Use caution when digging in an area with known UG utilities.
- Remember you are required to call Dig Safe (1-888-DIG-SAFE)
- All applicable NEC and NESC codes shall be followed during the erection of the temporary service, including ground rods, conduit, etc.
- A DE representative will advise and clearly mark the trench to the UG facilities the contractor may be asked to open.
- Temporary service locations shall have the address (i.e. 101 Main Street, Lot3) clearly and permanently marked on the meter structure so as to be legible from the nearest traveled way.
- Temporary service locations shall be placed so the electric meter faces the traveled way.
- Note – surplus/junk equipment such as 60 Ampere sockets or 60 Ampere fuse panels are not acceptable for temporary services.

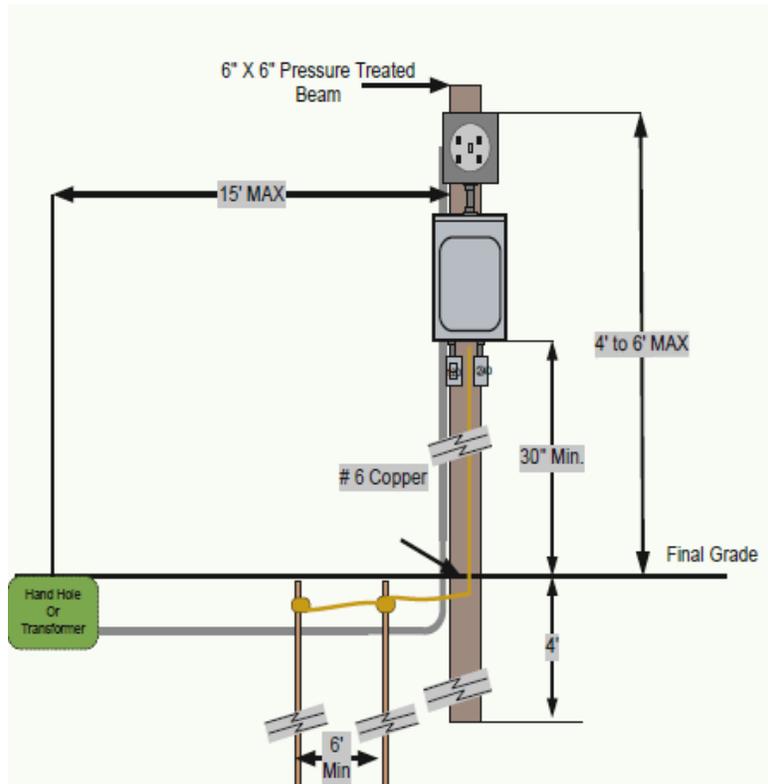


Figure 1: Method 2

Method 3: UG from Permanent Pedestal to DE OH

When the customer installs underground facilities that will connect to DE overhead facilities the customer may be required to use a meter pedestal for both the temporary and final metering point. In this case a temporary breaker panel will be mounted on a board and wired into the meter socket. Connections to DE electric distribution facilities will be permanent, using a pole riser for both the temporary and final service.

Specific Method 3 Temporary Service Requirements:

- DE shall specify the location of pedestal service, while making an effort to accommodate the customer’s desired location. Any structures installed prior to the DE visit become subject to relocation. Note that while we recognize the customers desire to choose the permanent service location, DE has to make the final decision based on all local easement and electric distribution facilities requirements.
- Service Mast (Post) shall be either two 2 X 8 pressure treated wood members bolted together or a single pressure treated 4 X4 post. The meter socket will be mounted on pressure treated ¾ inch plywood or pressure treated 1 inch thick boards attached to the aforementioned service mast.
- The structure will be set no less than 3’ into the earth and cemented to secure the structure. Caution before digging in any area —remember you must call Dig Safe (1-888-DIG-SAFE)

- All applicable NEC and NESC codes shall be followed during the erection of the temporary service, including ground rods, conduit, slip joints, etc.
- Customer shall install schedule 40 (gray) PVC underground conduit at a minimum. This to be concrete encased (at least 3 on all sides) the sweep at the base of the pole and the riser pipe shall be Rigid Conduit for the first 10 feet up the pole. Riser poles may revert back to Schedule 40 PVC after the first 10 feet (above ground level).
- Customer will supply necessary secondary (120/204 Volt) cable and riser pipe for the pole – see UG to OH services –permanent service section 11.4.3 for details.
- Temporary service locations shall have the address (i.e. 101 Main Street, Lot 3) clearly marked on the meter structure so as to be legible from the nearest traveled way. This may be removed when the residence or building has an occupancy permit and can be easily identified by DE.
- The pedestal location shall be placed so the electric meter faces the traveled way.

Method 4: UG from Permanent Pedestal to DE UG

DE facilities are underground and the customer will be required to connect to those facilities. This may include a secondary hand hole or transformer. To do so the customer chooses to use a meter pedestal as both the temporary and final metering point. The customer having elected the permanent pedestal metering option will erect the pedestal. A temporary breaker panel will be mounted on a board and wired to the meter socket. Connections to DE electric distribution system will be permanent, using the final required service size wire run in concrete encased conduit.

Specific Method 4 Temporary Service Requirements:

- DE shall determine and specify the location of pedestal service however customer input will be considered. . Any structures installed prior to the DE visit and locating are subject to relocation. Note we recognize the nature of a permanent service location, but the location must meet all local easement and distribution system requirements.
- Service Mast (Post) shall be either two 2 X 8 pressure treated wood members bolted together or a single pressure treated 4 X4 post. The meter socket will be mounted on pressure treated ¾ inch plywood attached to the aforementioned service mast post.
- The structure will be set no less than 3' into the earth and cemented to secure the structure. Caution you are digging in an area with known UG utilities—Call Dig Safe
- All applicable NEC and NESC codes shall be followed during the erection of the temporary service, including ground rods, conduit, slip joints, etc.
- Customer will install concrete encased conduit (at least 3 on each side) to the point of connection to DE UG Distribution system as designated by DE.