

CALL 48 HOURS BEFORE YOU DIG – Dial 811

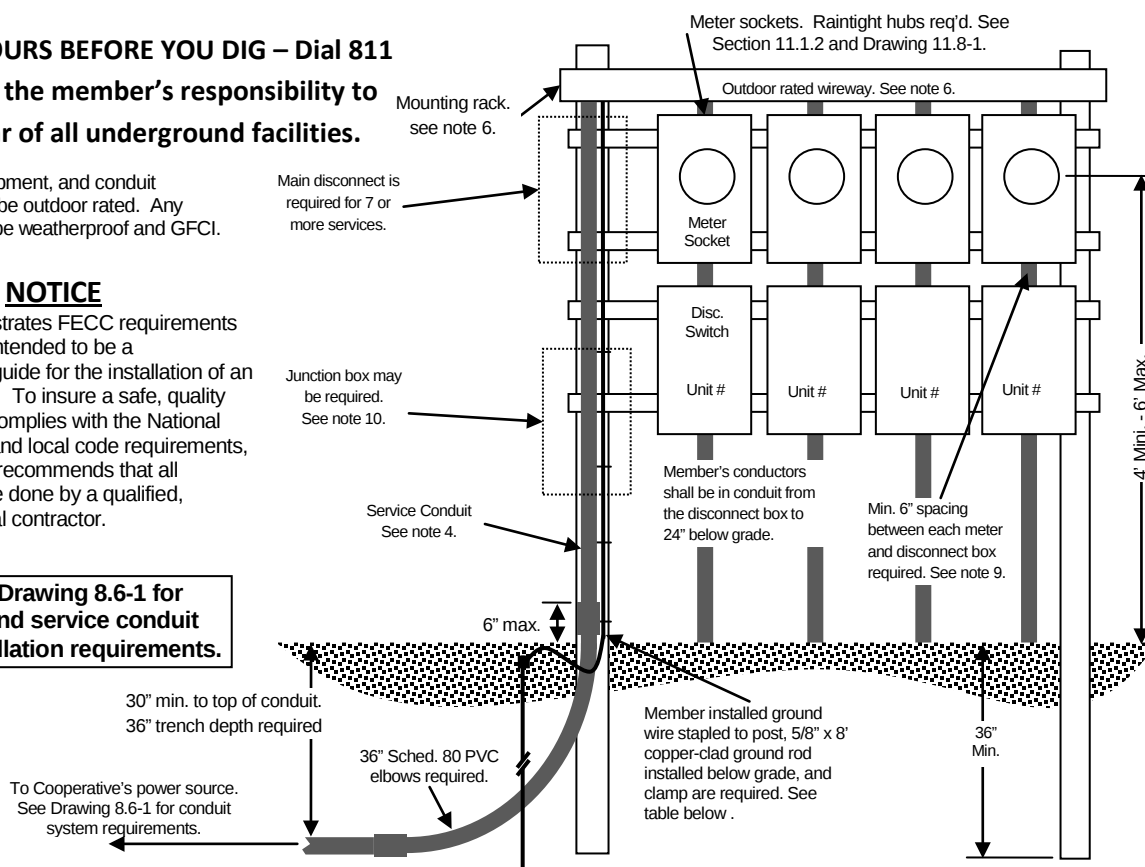
It shall be the member's responsibility to stay clear of all underground facilities.

All materials, equipment, and conduit connections shall be outdoor rated. Any receptacles shall be weatherproof and GFCI.

NOTICE

This drawing illustrates FECC requirements only, and is not intended to be a comprehensive guide for the installation of an electrical service. To insure a safe, quality installation that complies with the National Electrical Code and local code requirements, the Cooperative recommends that all electrical work be done by a qualified, licensed electrical contractor.

Also see Drawing 8.6-1 for underground service conduit system installation requirements.

**Notes**

- Member provides and installs: mounting rack; service entrance conductors; conduits; meter sockets; service disconnect switches; ground rod and wire; and all associated materials. All work shall comply with Cooperative standards, the National Electrical Code, and authorities having jurisdiction. Refer to the *FECC Member Installation Standards for Electric Service* for more information.
- Cooperative provides and installs the meter and service lateral conductors. Member makes connections at the junction box or main disconnect.
- This service shall be installed at a location mutually agreed upon by the member and the Cooperative. The location should be immediately adjacent to a roadway or drive which is accessible at all times to Cooperative vehicles.
- All above ground conduits shall be electrical grade Schedule 40 PVC, EMT, IMC, or RMC. All conduit connections shall be raintight. All underground elbows and risers shall be Schedule 80 PVC. See table below and Drawing 8.6-1 for conduit system installation details.
- Member shall install conduit system to the Cooperative's power source. See Drawing 8.6-1 for conduit system requirements.
- The member shall provide a raintight junction box or wireway containing insulated terminal blocks for connection of the Cooperative's service conductors to the individual service conductors; split bolts or similar connections shall not be used.
- Posts must be minimum 6" round treated posts, or 6" x 6" treated posts, or 3" schedule 40 weatherproof steel set in concrete. Posts must be spaced to provide stable mounting for equipment. Rack cross-members must be weatherproof steel or treated wood of sufficient number, size, strength, and spacing to provide stable mounting of the electrical enclosures.
- Each meter socket and disconnect shall be permanently and plainly marked to indicate the unit or lot it serves.
- Bonding jumper required if PVC conduit is used. A factory assembled multiple meter & disconnect enclosure may also be used. See Section 11.6
- A junction box is not required when the Cooperative provides the service wire from the transformer or pedestal (services rated up to 320A), or if the member provides the service wire to the transformer or pedestal (services rated over 320A).

Member Installation Minimum Wire and Conduit Size

Total Service Rating	Conduit Size		Aluminum (Insulation per NEC)	Copper (Insulation per NEC)	Neutral	Ground Wire Size
	Single Phase	Three Phase				
100A	2"	3"	#2	#4	Same as phase	#6 CU
200A	2"	3"	4/0	2/0	Same as phase	#4 CU
320A	3"	4"	500 kcmil	350 kcmil	See NEC	#2 CU



**First Electric
Cooperative Corporation**

Underground Multiple Meter Installation

Served From Underground Source
Single or Three Phase Service Up to 320A

DRAWING 11.6-2

December 2011

NOT TO SCALE