



**Notes**

1. Member provides and installs the service entrance conductors, conduits, weatherhead, meter enclosure, service disconnect switch, ground rod and wire, and all related materials. All equipment and conduit connections shall be raintight. Any receptacles shall be weatherproof and GFCI. 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.
2. Cooperative provides and installs the meter pole, meter, service drop attachment and conductors, and makes connections at the weatherhead. At member's request, Cooperative will assist with mounting service assembly on pole.
3. 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 without having to cross yards, fields, ditches, or areas subject to flooding or irrigation.
4. Only the meter enclosure and service disconnect switch may be mounted on the Cooperative's pole. Control panels or other member equipment must be mounted on a separate structure provided by the member (see Drawing 4.10-1).
5. Size wire per table below. 36" of conductor shall extend out of weatherhead. Cooperative will mount service assembly at member's request. Neutral may be bare, or insulated and marked with white tape at both ends.
6. Size conduit per table below. Riser conduit shall be minimum 1 1/2" and at least 15' in length with 3 conduit straps required. Straps must be placed within 12" of the top and bottom of the conduit, and at the middle.
7. All above-ground conduits to be electrical grade EMT, IMC, RMC, or Schedule 80 PVC.
8. Meter and disconnect enclosures must be grounded and bonded together using special means per NEC 250.92. Standard locknuts or bushings are not acceptable.

**CALL 48 HOURS BEFORE YOU DIG – Dial 811**  
**It shall be the member's responsibility to stay clear of all underground facilities.**

**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.

Member's wire and conduit sizes (75° C wire and terminal ratings).  
 Follow NEC requirements for other wire or temperature configurations.

Service Rating	Phase Conductors	Steel or Aluminum Conduit	Sch 80 PVC	Ground Wire	Neutral Conductor
100A	#2 CU	1 1/2"	1 1/2"	#6 CU	Same as phase
	1/0 AL	1 1/2"	2"		
200A	3/0 CU	2"	2"	#4 CU	Same as phase
	250 AL	2 1/2"	2 1/2"		
320A	350 CU	3"	3"	#2 CU	See NEC
	500 AL	3"	3 1/2"		

**Three Phase Meter on Pole  
 Serving Underground Load  
 Three Phase Service Up to 320A  
 DRAWING 7.1-5**

June 2014  
 NOT TO SCALE

