



Notes

1. Member provides and installs the pole, mounting rack, service entrance conductors, conduits, weatherhead, meter enclosure, service disconnect switch, ground rod and wire, and all related 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.
2. Cooperative provides and installs the meter, the service drop conductors, and makes connections at the weatherhead.
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. All conduits shall be electrical grade Schedule 80 PVC, EMT, IMC, or RMC. All conduit connections shall be raintight.
5. Riser conduit shall be at least 10' in length with 2 conduit straps required. Straps must be placed within 12" of the top and at the midpoint of the conduit. See table below.
6. A minimum of 36" of conductor shall extend from weatherhead. Neutral conductor shall be marked with white tape at both ends (bare conductor may be used). See table below.
7. Member installed 1/2" galvanized steel eye bolt with 2" x 2" square washer required.
8. Pole for service drop attachment must be minimum 6" x 6" treated wood or 6" schedule 40 weatherproof steel set in concrete. Pole length shall be minimum 18' or 22' depending on weatherhead height requirement. Vertical posts must be minimum 6" round 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.
9. 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"		

**Overhead Meter and Equipment Rack
 (Irrigation Service)**

Three Phase Service Up to 320A

DRAWING 4.10-1

June 2014

NOT TO SCALE



First Electric
 Cooperative Corporation