



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

**Notes**

1. Member provides and installs the service entrance conductors, conduits, weatherheads, meter socket, service disconnect switch, ground rod and wire, and all related materials. All equipment and conduit connections shall be raintight. All 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 the 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.
4. Only the meter enclosure and service disconnect switch may be mounted on the Cooperative's pole. Controls panels or other member equipment must be mounted on a separate structure provided by the member (see Drawing 4.10-1).
5. Source-side riser conduit shall be at least 15' in length with 3 conduit straps required. Load-side riser conduit must extend at least 10' above meter socket. Straps must be placed within 12" of the top and bottom of both conduits, and at the middle. All conduits to be electrical grade EMT, IMC, RMC, or Schedule 80 PVC.
6. Minimum 36" of conductor shall extend out of source-side weatherhead. Neutral conductor may be bare or insulated and marked with white tape at both ends.
7. Meter and disconnect enclosures must be grounded and bonded together using special means per NEC 250.92. Standard locknuts or bushings are not acceptable.
8. Overhead service entrance conductors must be attached at sufficient height at pole and at member's premises to meet ground clearance requirements as required in NEC 225.18. Minimum 14' attachment height is recommended.
9. Service entrance cable from meter pole to member's premises shall be of sufficient ampacity and type rated for outdoor use and supported on a suitable messenger. Pole attachment shall be a member installed 1/2" galvanized steel eyebolt with 2"x2" square washer.

**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 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 Conductor		Conduit	Ground Wire	Neutral Conductor
	Non – Residential	Residential			
100A	#2 CU	#4 CU	1 1/2"	#6 CU	Same as Phase
	1/0 AL	#2 AL			
200A	3/0 CU	2/0 CU	2"	#4 CU	
	250 AL	4/0 AL			
320A	350 CU	250 CU	3"	#2 CU	See NEC
	500 AL	350 AL			

**Meter on Pole  
(Overhead Load Connection)  
Single Phase 120/240V Service Up to 320A**

**DRAWING 7.1-4**

June 2014

NOT TO SCALE



First Electric  
Cooperative Corporation