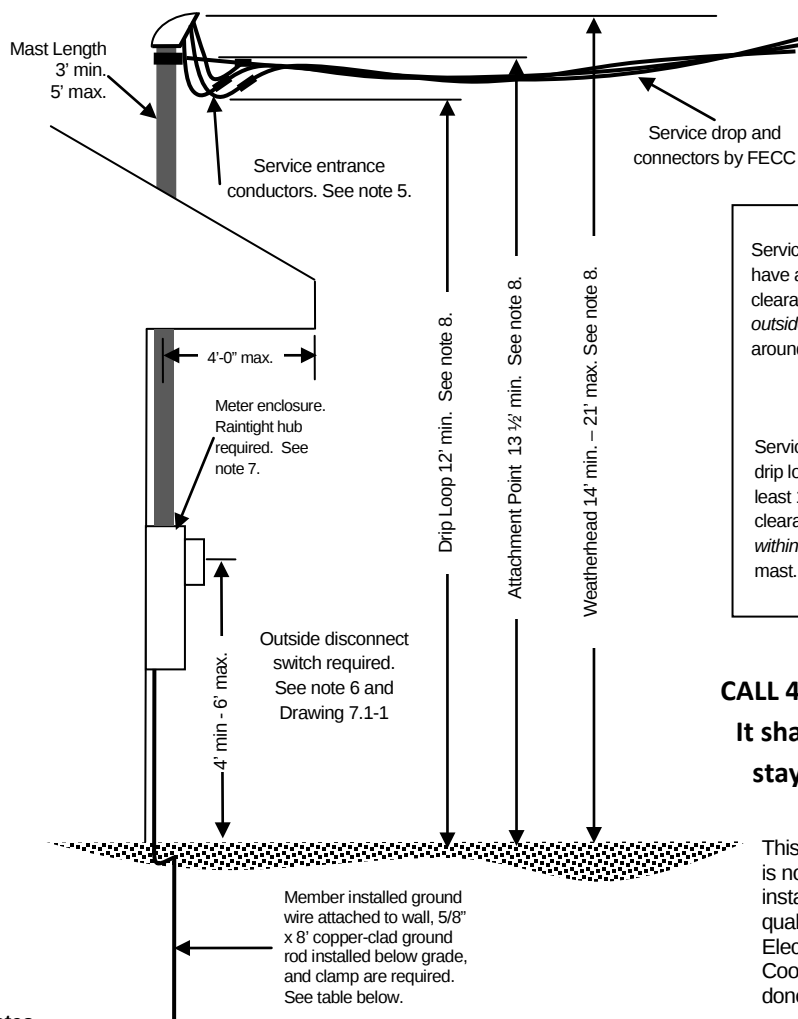




Maximum Recommended Distance from Cooperative Pole to Structure	
Amps	Distance (feet)
100	100
200	75
320	40

Service drop cable must have at least 3' vertical clearance above roof outside of 6' radius around service mast.

Service drop cable and drip loop must have at least 18" vertical clearance above roof within 6' radius of service mast.

Aerial View of Roof

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.

Notes

1. Member provides and installs: the mast and service drop attachment point; 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 and service drop conductors, and makes connections at the weatherhead.
3. This service shall be installed on the building at a location mutually agreed upon by the member and the Cooperative. See Drawing 7.2-1 for location details.
4. All conduits shall be electrical grade Schedule 40 PVC, EMT, IMC, or RMC. Only IMC or RMC shall be used above the roof. All conduit connections shall be raintight. Weatherhead should be of the same material as the conduit.
5. A minimum of 3'-0" of each conductor shall extend from the weatherhead. The neutral shall be marked with white tape on both ends and may be bare wire. See table below.
6. Main breaker or disconnect shall be mounted on the outside wall within 2'-0" of meter. 6" space between meter and disconnect required. A bonding jumper is required if PVC conduit is used. A factory assembled combination meter & disconnect enclosure may also be used. See Section 11.1.2
7. See *Member Installation Standards* Section 11.1.2 and Drawing 11.8-1 for meter socket specifications.
8. The service mast may need to be extended to meet minimum clearance; bracing may be required.
9. Minimum 3 ft. clearance between electric meter and gas meter.
10. Point of attachment shall be accessible to Cooperative's bucket truck or have enough surface (such as wall or building structure) and sufficient ground space on same member's property to safely support a ladder.

Member Installation Minimum Wire and Conduit Size

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



First Electric
Cooperative Corporation

**Overhead Meter on House
Service Mast Attachment
Single Phase 240V Service Up to 320A**

DRAWING 7.1-2

December 2011
NOT TO SCALE