



All items furnished by member

LOCATION

A WEC Staking Engineer will determine the location and any additional requirements during an on-site meeting with the member during the design process. Services are not permitted within the WEC easement and must be at least 30 feet away from any WEC poles, wires and anchors. Service may not cross over propane tanks, oil wells, swimming pools and other obstacles because of safety code requirements.
Manufactured housing units shall refer to NEC 550 for additional requirements

SERVICE MAST

Only WEC attachments are allowed on mast.
Structural reinforcement and flashing (mast roof kit) at roof line is required.
If WEC service wires must cross **more** than 6 feet of roof and/or attachment is **more** than 4 feet from edge of roof, service mast must extend a minimum of **60** inches above roof. **If more than 60 inches is needed for clearance, a meter pole service is required**
If WEC service wires must cross **less** than 6 feet of roof and attachment is **less** than 4 feet from edge of roof, service mast must extend a minimum of **42** inches above roof. **If more than 60 inches is needed for clearance, a meter pole service is required**

WEATHER HEAD

3 wire rain-tight weather head properly sized and rated will be installed on top of conduit

CONDUIT

Galvanized conduit or gray electrical PVC schedule 40 minimum shall extend from weather head to meter base.
Galvanized conduit or gray electrical PVC schedule 80 is required if mast extends more than 42 inches above roof.
When pipe riser is 10 feet or less, no coupling is permitted. When longer than 10 feet, a coupling shall be installed at joint closest to meter socket.
Pipe straps (3 minimum) shall be installed at uniform intervals to secure conduit to structure.
Pipe strap lag bolts shall go into wall studs and/or sound structural members

MINIMUM SERVICE AND GROUND CONDUCTOR REQUIREMENTS (NEC 310)

All service conductors shall have insulation suitable for the applied voltage but, in any case, not less than 600 volts and sized to rated load of meter base. Customer/Contractor shall extend wires a minimum of 24 inches through weather head for WEC connections

AMP RATING	CONDUIT	WIRE TYPE	HOT LEGS	NEUTRAL	GROUND
320	3"	COPPER (CU)	250 MCM	250 MCM	#2 AWG CU
320	3"	ALUMINUM (AL)	350 MCM	350 MCM	#2 AWG CU
200	2"	COPPER (CU)	2/0 AWG	2/0 AWG	#4 AWG CU
200	2"	ALUMINUM (AL)	4/0 AWG	4/0 AWG	#4 AWG CU
100	2"	COPPER (CU)	#4 AWG	#4 AWG	#6 AWG CU
100	2"	ALUMINUM (AL)	#2 AWG	#2 AWG	#6 AWG CU

METER BASE

Meter base shall be located between 5ft and 6ft from ground level.
Meter base shall be a single position, four terminal, and ring-less with a horn or other approved type bypass.
Meter bases equipped with grounding lugs shall be grounded in accordance to NEC or local inspection authority

DISCONNECT OPTIONS AND OTHER SERVICE EQUIPMENT REQUIREMENTS (NEC 230)

All sites served by WEC shall have a service disconnecting means (Mains in panel box). Although not required at this time, an outside disconnect switch is also recommended.
Disconnect main (inside or outside) shall be appropriately sized (breaker or K1 fuses rated for 10,000 Amperes)
Weather-Tight connectors and fittings shall be used between outside equipment and components.
All equipment (meter base, disconnect, etc) shall have all knock-outs, doors, and covers in place to limit access to energized parts and shall be in good physical and working condition..

GROUNDING RODS, WIRE, AND CONNECTORS (NEC 250)

Meter socket shall be grounded in accordance to NEC and local inspection authority requirements
Any service connected to WEC shall have two (2) 5/8 in. x 8ft. copper ground rods located 6ft. apart
Ground rod clamps shall be suitable for direct burial and/or exothermic welding.
Ground wires shall extend unbroken or uncut from grounding lug of disconnect to each rod.
Ground wires shall be secured to pole and/or protected from damage with 1/2 inch electrical conduit.

DIAGRAM

A diagram is included on the back of this specification sheet.

EFFECTIVE DATE

FOR ALL UPGRADES AND NEW CONSTRUCTION **AFTER JULY 15, 2013**