



**Warren Electric
Cooperative, Inc**

**Specifications and Checklist
120/240 Single Phase Meter Pole (100, 200 and 320 Ampere Rated)**

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. Pole may not be closer than 15 feet from structure for access and guying purposes. Refer to NEC 550 for additional manufactured housing requirements

PRESSURE TREATED METER POLE

Pole shall be set in the ground a minimum of 5ft. No concrete in hole (to prevent rapid decay). Pole shall be guyed to support WEC service wires and promote clearances. Clearance issues and prevailing conditions will dictate additional pole height requirements.

ROAD X-ING	TYPE	MINIMUM
NO	SQUARE	6in x 6in x 24ft
NO	ROUND	25ft, Class 7
YES	ROUND	30ft, Class 6

GUYING AND ANCHORING

Anchor rod shall be a minimum of UL approved, 4ft. screw-type installed no closer than 10 feet from meter pole. Guy wire shall be a minimum of ¼ inch and located in-line of service drop on opposite side of pole. Guy attachment located 12 inches from top of pole

METER BASE

Meter socket shall be located between 5ft and 6ft from finished-grade ground level. Meter base shall be a single position, four terminal, and ring-less type "2-S" with arcing horn or by-pass handle. Meter bases equipped with grounding lugs shall be grounded in accordance to NEC or local inspection authority

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

WEATHER HEAD AND SERVICE CLEVIS

3-wire, rain-tight weather head properly sized and rated will be located 4inches from top of pole. Service clevis will be properly sized and rated and installed 8 inches from top of pole.

CONDUIT

Grey electrical PVC schedule 40 (minimum) shall extend from weather head to meter base, meter base to disconnect, and from disconnect to 24 inches below grade. Pipe straps shall be installed at uniform intervals to secure conduit to pole

OUTSIDE DISCONNECT AND OTHER SERVICE EQUIPMENT REQUIREMENTS (NEC 230)

All meter poles served by WEC shall have a service disconnecting means under the meter base. Disconnect shall be appropriately sized (main breaker or K1 fuses rated for 10,000 Amperes) Weather-Tight connectors and fittings shall be used between equipment and components. All equipment on pole shall be in good physical and working condition. All equipment (meter base, disconnect, sub-panels, receptacles, etc) shall have all knock-outs, doors, and covers in place to limit access to energized parts.

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 or exothermic welded. Ground wires shall extend unbroken or uncut from grounding lug of meter base (if equipped) or disconnect to each rod. Ground wires shall be secured to pole and/or protected from damage with ½ inch electrical conduit.

EFFECTIVE DATE

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