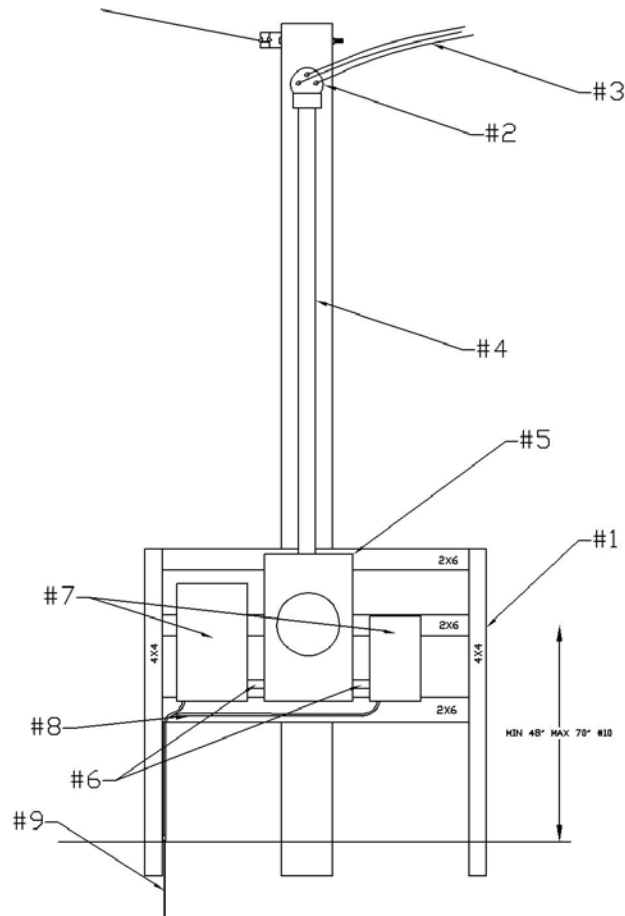


San Patricio Electric Cooperative – (361) 364-2220 #132

**320 amp Pole mounted service with meter rack**

**IT IS REQUIRED THAT ALL POLE MOUNTED METER LOOPS BE ON THE WORK SITE ON THE DAY THAT CONSTRUCTION IS SCHEDULED IN ORDER FOR WORK TO BE DONE.**



Installed on a **30-ft. meter pole** as provided by San Patricio Electric

1. Build rack to accommodate Meter can and Panel(s) and must be attached to meter pole.
2. 2 ½ - 3" Weather head
3. 60 feet 350 mcm copper wire. Cut wire in three equal lengths.  
Mark neutral with white tape or use white colored wire. Wire must extend out of weather head at least 36".
4. 15 feet of 2 ½" - 3" rigid galvanized conduit or rigid aluminum conduit or Gray PVC pipe. Thick strut should be used to secure raiser to pole.
5. 320 amp Meter can.
6. The Chase / Pipe should be a 2" and 1 ¼ offset nipples with lock rings and bounding bushings should be used on both side of chase, also with threaded galvanized nipple.
7. **Maximum 325 amps on Breaker Panel / Disconnect combination allowed on Service. Main Breaker(s) size cannot exceed amp rating of service.**
8. #4 green ground for 150 and 200 amp and #6 green ground for 125 amp service.
9. 5/8" x 8' Cooper Weld Ground Rod & Clamp – 2"-3" Exposed
10. Center of Meter must fall between 48" to 72"

San Patricio Electric has a licensed electrician that builds meter loops and offers other services as well. For a price quote please call the Cooperative at [361-364-2220 ext 132](tel:361-364-2220).

## San Patricio Electric Cooperative – (361) 364-2220 #132

### **320 amp Pole mounted service with meter rack**

Consumers may set their own meter pole. **NOTE: Contact SPEC about placement of meter pole in relation to transformer pole BEFORE placing meter pole.** The meter pole must be a minimum of 20 feet in length with a 6" top. Pole must be set 5 feet deep in the ground. Meter loop riser must extend to within 18" from top of the pole. Meter loop should be mounted on the rack so that meter is a minimum of 60" from ground level and a maximum of 72" from ground level. A 5/8" X 8' copper weld ground rod and copper weld ground rod clamp must be installed with #4 green ground for 150 and 200 amp and #6 green ground for 125 amp service

Meter loop must be completely assembled by the member or by an electrician in order to be connected. Co-op employees will not help in the assembling of a meter loop on the job site.

#### **CONSTRUCTION of a 3 WIRE METER LOOP:**

Meter Loop must be assembled by the member or by an electrician. The Co-op shall determine the acceptability of the meter loop before the connection is made.

Meter Loop shall be made of rigid galvanized conduit or rigid aluminum conduit or Gray PVC. EMT is NOT acceptable. A minimum size of 350 MCM stranded copper is required.

Meter and Main disconnect must be located on the outside area of any structure and must be accessible to the Cooperative. Disconnect must be located directly below the meter. Disconnect must be breakers or fuses. **BLADED DISCONNECT SWITCHES ARE NOT ALLOWED.**

#### **CONSTRUCTION of 5 WIRE METER LOOP WILL NO LONGER BE ACCEPTED.**

Consumer wiring from the load side of the consumer's breaker box **can not** be run back up through the meter can and the main meter loop riser. To feed consumer overhead services, a separate riser pipe must be installed from the breaker box to run back up the pole. This riser must **also** have a neutral wire in it. Riser must be electrical grade PVC (Gray), Galvanized rigid pipe or rigid aluminum conduit. The clearance of this riser must also meet height requirements.

#### **ALLOWABLE AMPERAGE OF AN INSULATED CONDUCTOR**

Taken from National Electric Code Manual Table 310-16

THHN Copper wire. Temp. 90° centigrade, 600 volt insulation minimum

WIRE SIZE		CONDUIT SIZE
#2 Cu.	125 amps per wire	1 ¼"
1/0 Cu.	150 amps per wire	1 ½"
2/0 Cu.	200 amps per wire	2"
3/0 Cu.	225 amps per wire	2
350 mcm	320 amps per wire	2 ½ - 3"

#### **Ground Clearance**

The guidelines on ground clearances for service conductors as described on the reverse side **MUST BE FOLLOWED.**

NOTE: For 120/240-volt service drop installations, minimum clearances must be maintained according to SPEC regulations:

- 12' of clearance should be maintained where no traffic is present
- 15' of clearance should be maintained over driveways
- 22' of clearance should be maintained over roadways
- 22.5' of clearance should be maintained over swimming pools
- 3.5' of clearance should be maintained over building roofs (no pedestrians)
- 11' of clearance should be maintained over building roofs (with pedestrians)

The measurement for clearance is determined at the lowest point in the service wire. The clearances from the ground to the service wire will decrease as the distance between the meter pole and the service pole, or transformer pole, increases.