CITY OF LIVINGSTON, TEXAS
METER LOOP SPECIFICATIONS FOR SINGLE PHASE SERVICE (Effective May I, 2025)

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Livingston, Texas 77351
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Office Hours: 8:00 a.m. to 5:00 p.m. Monday through Friday

The City of Livingston requires that all electrical work for the customer be done by a State of Texas Master Electrician.

The City of Livingston requires its residents to be responsible for providing all material (except the meter base) and labor for installing and maintaining the meter loops. The City of Livingston also **REQUIRES** that you make contact with the City of Livingston before a meter pole is purchased or set. **The location of the meter loop and meter pole must be in a mutually acceptable location to the resident and the City of Livingston.** Each resident's meter loop must be inspected by a City of Livingston inspector and must be approved in its entirety before the City of Livingston will extend, connect service conductors and install the meter. Moving or tampering with any flagged or marked material used to indicate the City's line extension is strictly prohibited and can result in extra charges for re-staking.
Approval of any meter loop design or specification not shown or mentioned in the specifications sheet shall be at the sole discretion of the City. (Article 90.4 of the NEC)

METER LOOPS SHALL NOT BE ALLOWED *ON* MANUFACTURED HOMES, MOBILE HOMES OR PORTABLE BUILDINGS. A METER POLE MUST BE USED.

These specifications contain guidelines for meter loops, both overhead and underground service extensions. Several examples of meter loop constructions are shown on drawings in these specifications. These specifications are for meter loops rated 200 amps or less. For larger services, contact the City of Livingston.

NOTE: New service will not be provided to a resident if any of the residents' facilities (meter pole, mobile home, house, barn, sign, structure, etc.) are within the City's utility easement. For a 20-foot easement, new services will not be allowed within 10 feet of either side of the pole, and for a 30-foot easement, new services will not be allowed within 15 feet of either side of the pole. Consult your property plat for the easement width on your property. The purpose of this rule is for the residents' safety**.**

SPECIFICATIONS APPLYING TO BOTH OVERHEAD AND UNDERGROUND METER LOOPS

1. **SERVICE ENTRANCE CONDUCTORS** shall be copper only; aluminum is not acceptable. The minimum size HOT conductor shall be #6 except when the service is for any dwelling, in such case the minimum size shall be #4.
   A licensed electrician should be responsible for determining whether larger conductors are required based upon load requirements. The NEUTRAL conductor shall be the same size as the HOT conductors or one standard size smaller. No conductors shall be smaller than #6. The ampacity of all conductors shall be per the National Electric Code Article 310.15(B)(6), (see the Conductor Chart for minimum size HOT conductors). Each conductor shall extend a minimum of 18-inches from the service head.

2. **GROUNDING CONDUCTORS** shall be copper and shall be #6 minimum for up to a 150-amp service and #4 for a 200-amp service. The grounding conductor for a larger service shall be sized according to Table 250-66 of the National Electric Code. Attaching the grounding conductor to the neutral bus bar or a lug in the service disconnect is preferred. A grounding conductor attached to the grounding lug in the meter base may be acceptable. If PVC conduit is used through the wall between the meter base and the service disconnect then the grounding conductor must be attached to the neutral bar in the service disconnect. The grounding conductor shall be protected by securing the conductor every 6 inches (to existing grade) or by installing it in ½-inch thin wall EMT conduit securely attached to the building or pole.

3. **SERVICE AND/OR EMERGENCY DISCONNECTS** shall be manually operable. All service/emergency disconnects shall be installed in a readily accessible outdoor location in a weatherproof enclosure, each disconnect shall read the following: EMERGENCY DISCONNECT OR SERVICE DISCONNECT to comply with Article 230.85 of the NEC. All weatherproof enclosures shall have any holes closed with the approved knockout covers per Article 314.41 of the NEC. The service/emergency disconnect shall consist of no more than 6 circuit

breakers or 6 sets of fuses. A circuit breaker panel with more than 6 positions for a single pole circuit breakers shall be required to have a MAIN circuit breaker per NEC Article 230.71.

4. **GROUND RODS** shall be a 5/8-inch galvanized steel or iron or ½-inch copper rod, 8 feet long, driven full length into the ground per Article 250.52(5) of the NEC. Attach the grounding conductor by means of an approved ground rod clamp. Rebar or galvanized pipe shall not be accepted.

5. **CONDUIT** shall be used to protect all service entrances, and all underground service drop conductors. All exposed (visible) conduit shall be metallic or PVC, depending on placement as to which types shall be used. Where the conduit extends above the roof, use only Rigid Galvanized Steel or Aluminum Rigid Galvanized Conduit. Conduit rising out of the ground shall be Rigid Galvanized Steel, Aluminum Rigid Galvanized Conduit or Grey Schedule 80 PVC only per Article 344 and Article 352 of the NEC. Conduit that is not exposed or at least 30 inches below ground level shall be Schedule 40 PVC (grey) electrical conduit and comply with Article 352 of the NEC. Water pipe (white PVC) is not allowed in ANY electrical application. When using a metallic-type conduit, the customer must ground and bond the conduit at the service by the methods stated by Article 250.90 of the NEC. See "CONDUIT AND CONDUCTOR chart" for sizing. All conduit connections shall be made weather-tight with connectors made for the application. All conduit straps shall be full metallic straps; half straps are not allowed.

6. **METER BASES** The City of Livingston will only furnish (**MILBANK Series U-5168-XLT-200)** meter bases, or the resident may choose to purchase a meter base elsewhere. If the resident chooses to purchase a meter base, it must be of the following manufacturer and specifications: (**MILBANK Series U-5168-XLT-200)**. The City of Livingston has available meter bases rated for a maximum of 200 amps. Meter bases rated for 200 amps shall be supplied with a hub size of 2-inches. Only one set of conductors shall be allowed under the lugs of a 200-amp meter base. Meter bases should be installed by the residents licensed electrician.

SPECIFICATIONS APPLYING TO OVERHEAD METER LOOP ONLY

7. **NEUTRAL CONDUCTORS** Mark the neutral at the service head by using white color-coded tape where the neutral exits the service head.

8. **METER POLES** shall be pressure treated, round wood poles with a minimum length of 23 feet and a minimum pole top diameter of 6 inches. Meter poles must also be buried at a minimum of 4.5 feet below ground level at an approved location. 4-inch x 6-inch timbers are not acceptable, even for temporary or construction power poles. Be sure to tamp the pole solidly in the ground. Guying of the meter pole may also be required for additional support; taller poles may be required to obtain proper code clearances.

9. **SERVICE HEADS** shall be located high enough to provide the required vertical clearance of the City's service drop cable between the City's pole and the service head as determined by a City of Livingston inspector. The service head must also be located so that it and the City's service drop cable shall have a clearance of not less than 3 feet from any windows, door, porch or similar accessible location per Rule 234C3d of the NESC and Article 230.9 of the NEC. When the service head is to be extended above the roof, the conduit shall have a 2-inch minimum in diameter and shall be RGS, IMC or Rigid Aluminum and shall also comply with Article 230.28 of the NEC. It should be continuous without joints. If joints are necessary, only threaded connections below the roofline will be approved. Each conductor with neutral shall extend a minimum of 18-inches out from the service head.

10. **SERVICE ATTACHMENTS** shall be installed at a height that maintains proper clearances for service drop conductors and allows for a minimum overall clearance of 16 feet to the lowest section of service wire as stated in Rule 232 of the NESC. Service attachments shall also be provided and installed by the City except where the attachment is to be located on a metal building, in which case the consumer shall install a 5/8-inch eye bolt securely fastened. The City of Livingston will furnish the eyebolt to the consumer if needed.

SPECIFICATIONS APPLYING TO UNDERGROUND METER LOOPS ONLY

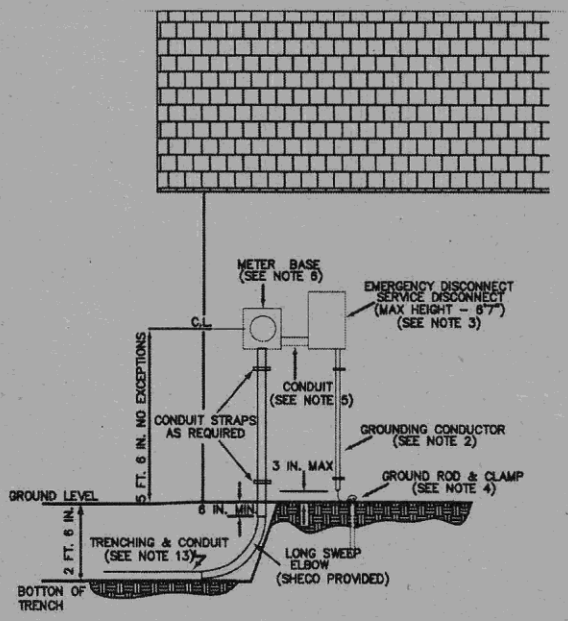
11. **METER POLES** shall be pressure treated 4-inch x 6-inch timbers, 8 feet long **for underground services only**.

12. **RISER CONDUIT** shall be RGS, Rigid Aluminum or Grey Schedule 80 PVC conduit only, 2.5-inches in diameter minimum.

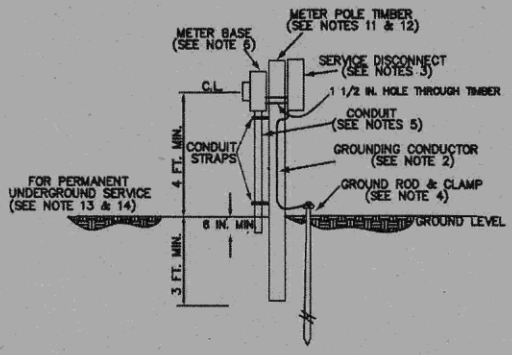
13. **NEUTRAL** conductors will only be attached to the lower lug of the meter base for underground service only.

Conductor and Conduit Chart

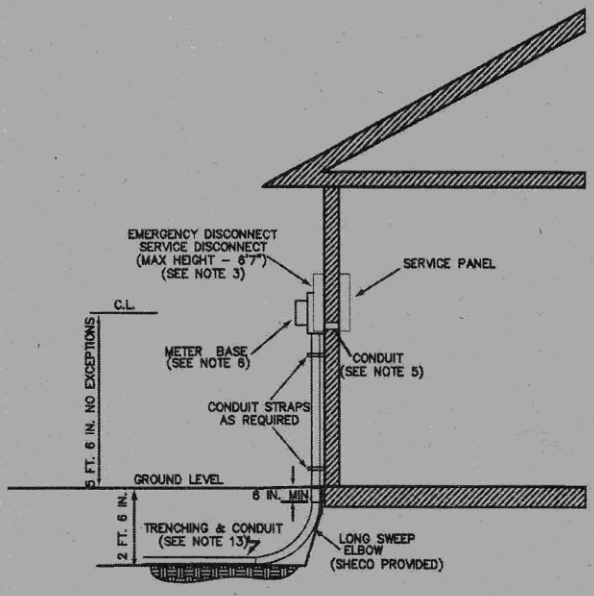
Size of Main Disconnect	Minimum Size of Conductor		Minimum Size of Conduit (Overhead)	Minimum Size of Conduit (Underground)
	Dwelling	Non-Dwelling		
50 amp	Not Allowed	#6	1”	2 ½”
100 amp	#4	#3	1 ¼”	2 ½”
125 amp	#2	#1	1 ¼”	2 ½”
150 amp	#1	1/0	1 ½”	2 ½”
200 amp	2/0	3/0	2”	2 ½”



UNDERGROUND METER LOOP ON DWELLING ONLY



UNDERGROUND METER POLE



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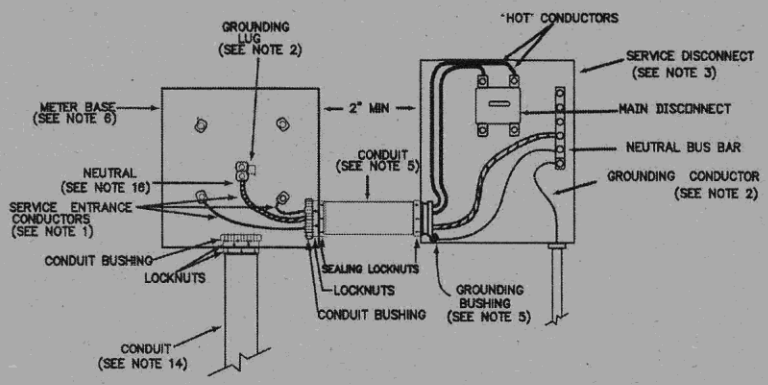
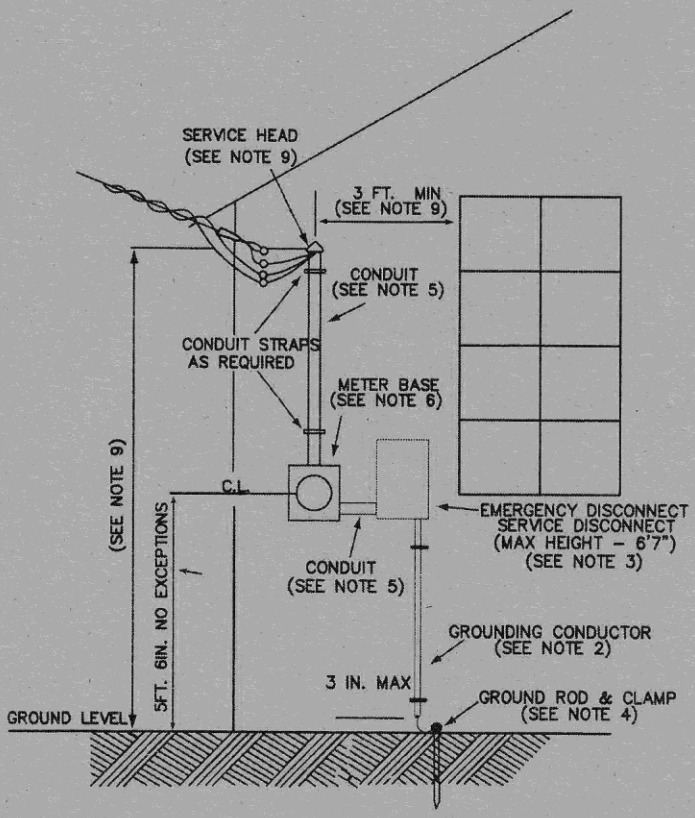


WIRING DETAIL FOR UNDERGROUND METER POLE
AND NON-DWELLING APPLICATIONS



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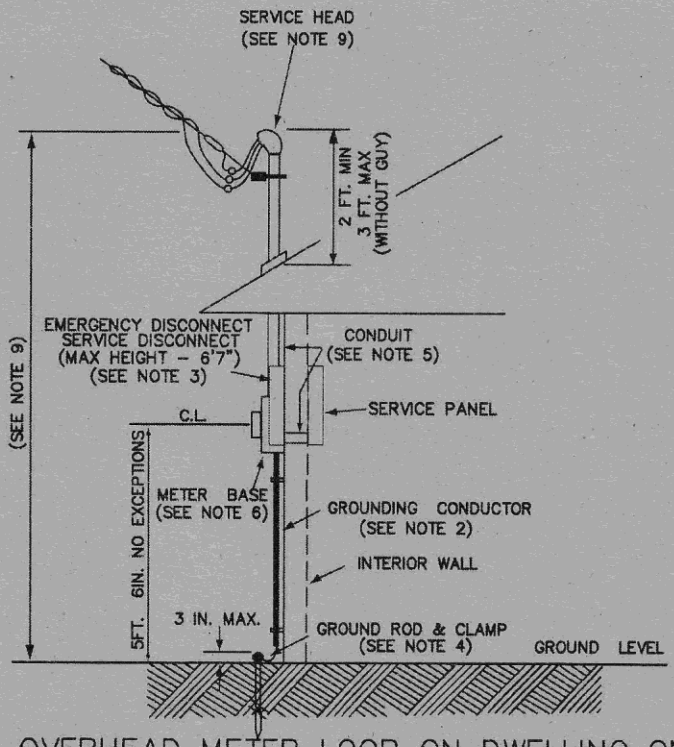

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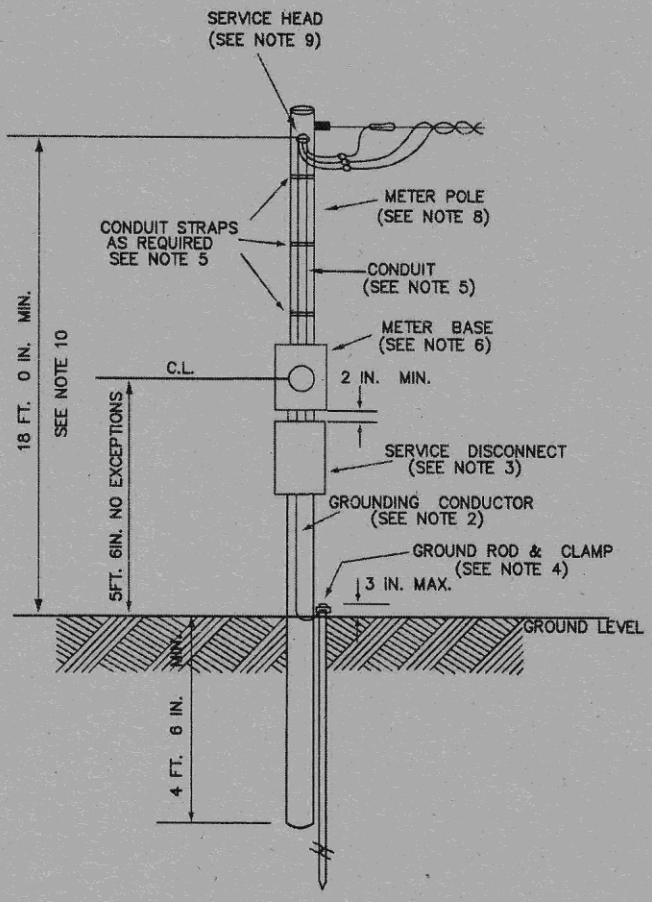
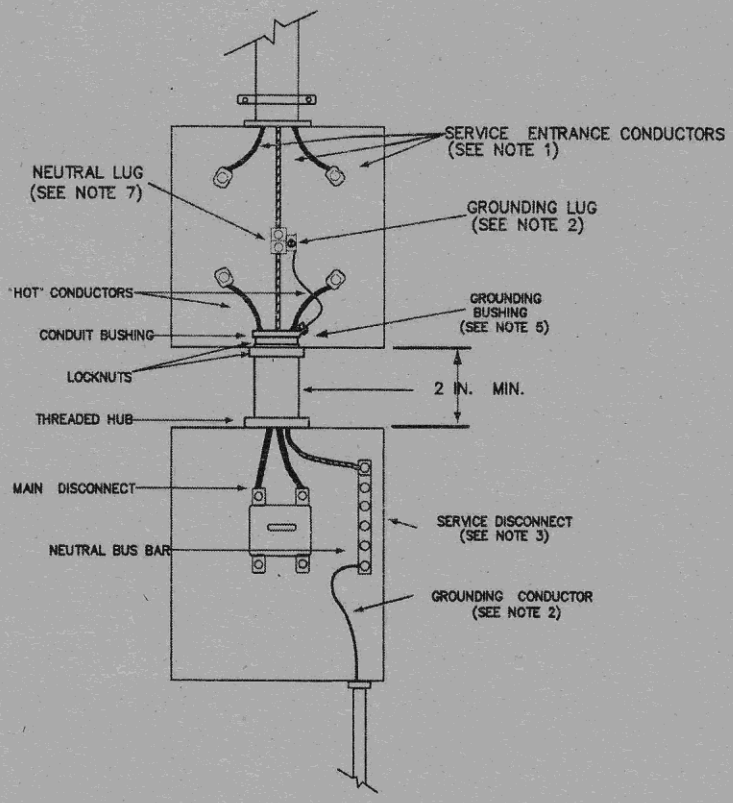


OVERHEAD METER POLE



WIRING DETAIL FOR OVERHEAD METER LOOP AND NON-DWELLING APPLICATIONS