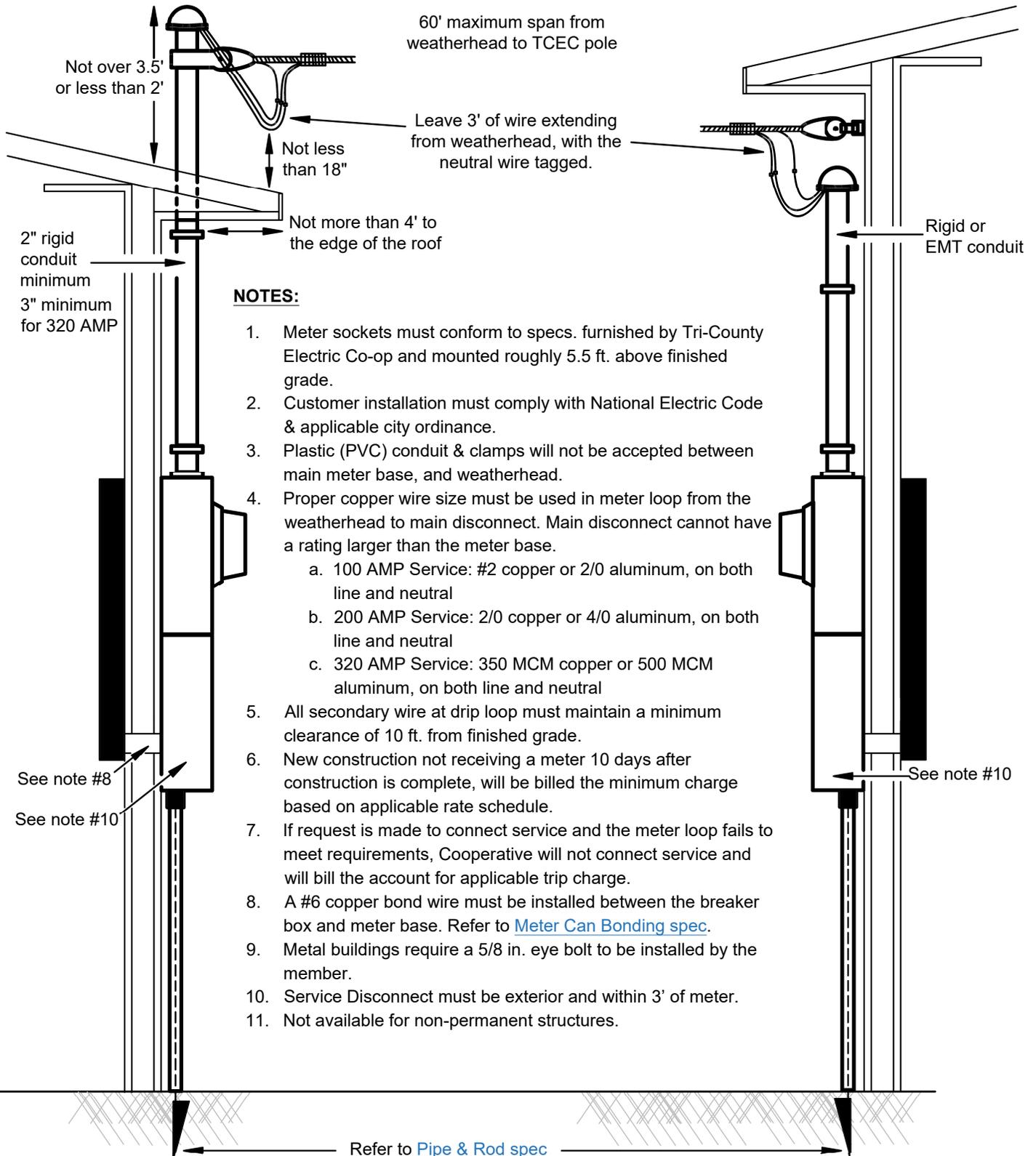




# OVERHEAD SERVICE ENTRANCE

## Structures Only

Phone: 817.444.3201 ★ tcectexas.com



### NOTES:

1. Meter sockets must conform to specs. furnished by Tri-County Electric Co-op and mounted roughly 5.5 ft. above finished grade.
2. Customer installation must comply with National Electric Code & applicable city ordinance.
3. Plastic (PVC) conduit & clamps will not be accepted between main meter base, and weatherhead.
4. Proper copper wire size must be used in meter loop from the weatherhead to main disconnect. Main disconnect cannot have a rating larger than the meter base.
  - a. 100 AMP Service: #2 copper or 2/0 aluminum, on both line and neutral
  - b. 200 AMP Service: 2/0 copper or 4/0 aluminum, on both line and neutral
  - c. 320 AMP Service: 350 MCM copper or 500 MCM aluminum, on both line and neutral
5. All secondary wire at drip loop must maintain a minimum clearance of 10 ft. from finished grade.
6. New construction not receiving a meter 10 days after construction is complete, will be billed the minimum charge based on applicable rate schedule.
7. If request is made to connect service and the meter loop fails to meet requirements, Cooperative will not connect service and will bill the account for applicable trip charge.
8. A #6 copper bond wire must be installed between the breaker box and meter base. Refer to [Meter Can Bonding spec.](#)
9. Metal buildings require a 5/8 in. eye bolt to be installed by the member.
10. Service Disconnect must be exterior and within 3' of meter.
11. Not available for non-permanent structures.

# METER LOOP ON TCEC INSTALLED METER POLE



Be sure all items shown below are on the meter pole **before** contacting the office for connection of electric service:

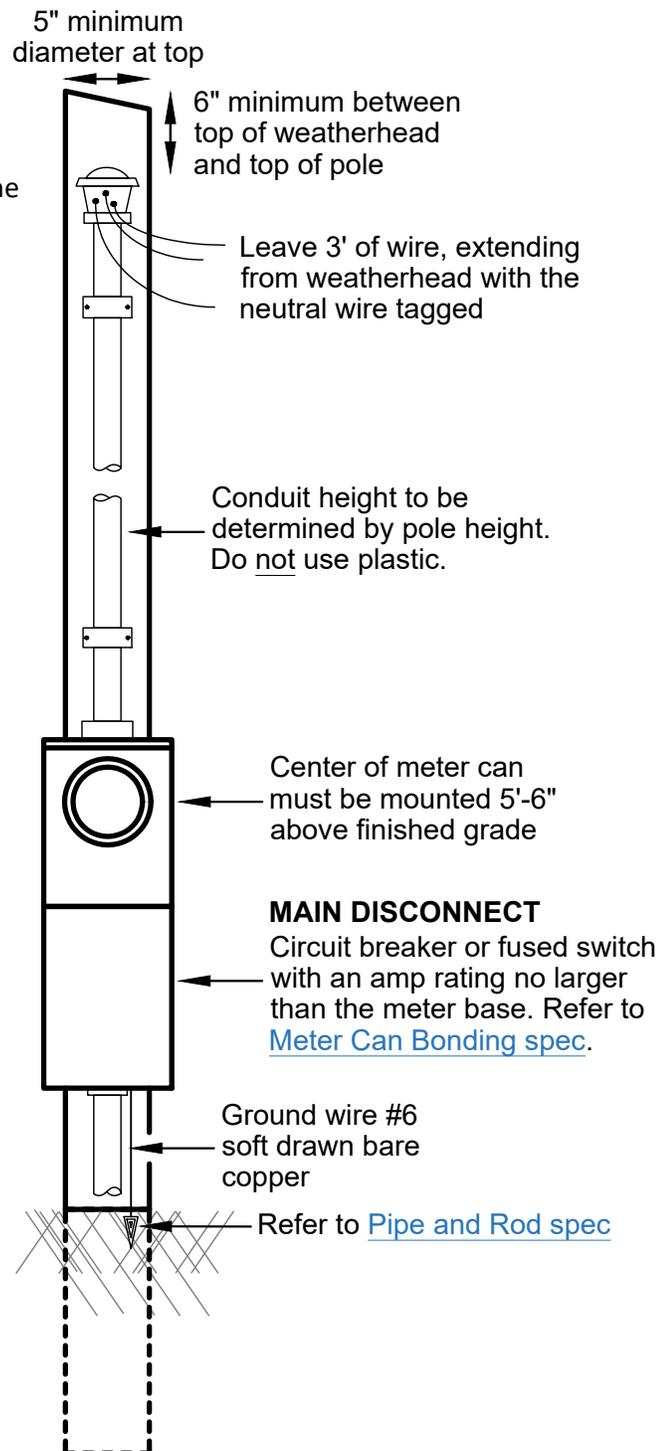
Phone: 817.444.3201 ★ tcectexas.com

- Correct meter base
- Conduit extended to height of 3' below top of pole: Refer to table below
  - 100-AMP service: 1 1/4" EMT conduit
  - 200-AMP service: 2" EMT conduit
- Weatherhead
- Correct copper wire size must be used between the weatherhead and the line side of the meter base and from the load side of the meter base to the meter disconnect:
  - 100-AMP service: #2 copper or 2/0 aluminum on both line and neutral
  - 200-AMP service: 2/0 copper or 4/0 aluminum on both line and neutral
- Main disconnect no larger than rating on meter base
- Ground wire clamped to ground rod. Refer to [Pipe & Rod](#) and [Meter Can Bonding](#) specs.
- Neutral wire marked
- Meter loop must be faced in a direction that will allow easy access

Pole Height	Conduit Length
30'	15'
35'	20'

## NOTES:

1. New construction not receiving a meter 10 days after construction is complete will be billed the minimum charge based on the applicable rate schedule. Service attachment provided and installed by Tri-County Electric Co-op.
2. If a request is made to connect service and the meter loop fails to meet above requirements, Tri-County Electric Cooperative will bill the account an applicable trip charge.
3. Meter sockets must conform to specifications furnished by Tri-County Electric Cooperative.
4. Member installation must comply with National Electric Code and applicable city ordinance.
5. Plastic (PVC) conduit and clamps will not be accepted for use between the meter base and weatherhead.
6. Proper copper wire size must be used in the meter loop from the weatherhead through to the main disconnect.
7. A #6 copper bond wire must be installed between the breaker box and meter base.
8. Service disconnect must be exterior and within 3' of meter. Refer to [Meter Can Bonding spec.](#)



# MEMBER INSTALLED METER POLE

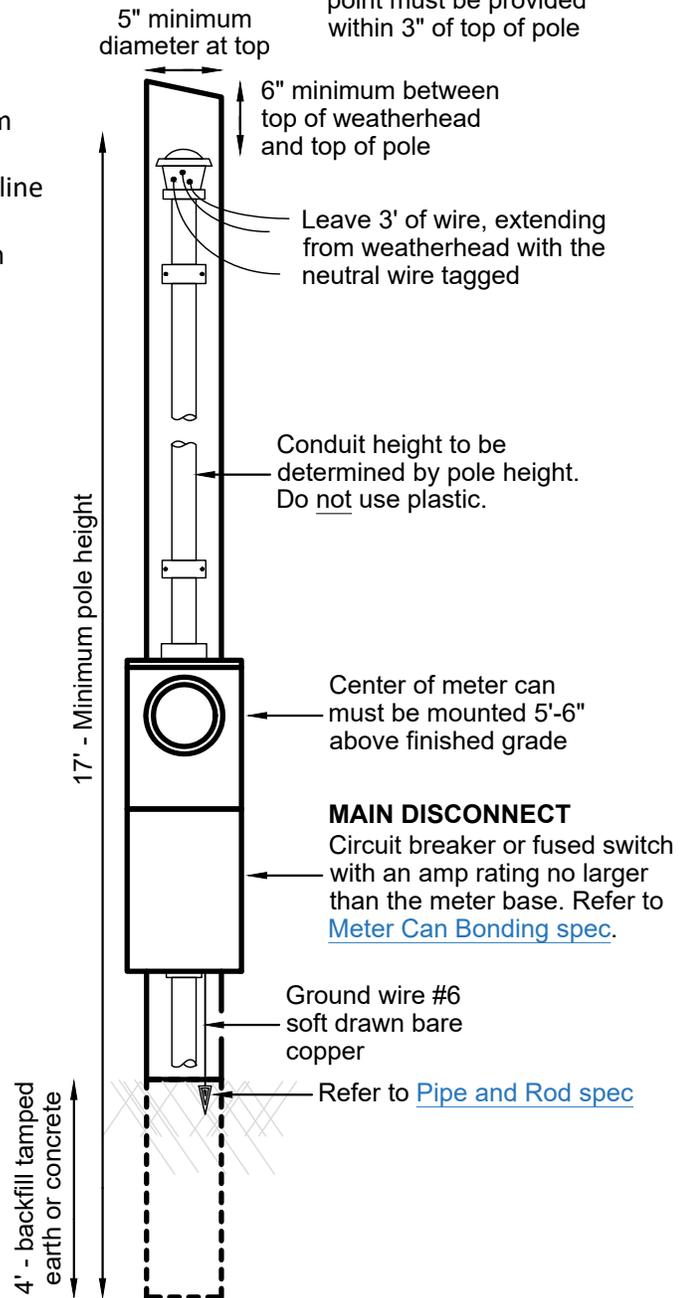


Phone: 817.444.3201 ★ tcectexas.com

Be sure all items shown below are on the meter pole **before** contacting the office for connection of electric service:

- Correct meter base
- Conduit extended to height of 6'-5" above top of meter base
  - 100-AMP service: 1 1/4" EMT conduit
  - 200-AMP service: 2" EMT conduit
  - 320-AMP service: 3" EMT conduit
- Weatherhead
- Correct copper wire size must be used between the weatherhead and the line side of the meter base and from the load side of the meter base to the meter disconnect:
  - 100-AMP service: #2 copper or 2/0 aluminum on both line and neutral
  - 200-AMP service: 2/0 copper or 4/0 aluminum on both line and neutral
  - 320-AMP service: (Requires adjoining meter rack) 350 MCM copper or 500 MCM aluminum on both line and neutral
- Main disconnect no larger than rating on meter base
- Ground wire clamped to ground rod
- Neutral wire marked
- Meter loop must be faced in a direction that will allow easy access

Eyebolt connection point must be provided within 3" of top of pole



## NOTES:

1. Service drop provided and installed by Tri-County Electric Co-op. Maximum allowable distance from TCEC source pole is 50'.
2. Service attachment provided and installed by Tri-County Electric Co-op.
3. Meter sockets must conform to specifications furnished by Tri-County Electric Co-op
4. Service entrance conductor's and service raceway provided and installed by member. Conductors extend 36" minimum outside of weatherhead. Neutral wire must be properly identified.
5. Members provide and install conduit straps and meter socket. Drop loop minimum clearance is 10' from finished grade.
6. Pole must be Creosote pole or equal with a minimum diameter of 5" at top of pole and a minimum height of 17'. Square metal tubing may be used alternatively.
7. TCEC trucks and personnel must have access to pole.
8. Pole to be set a minimum depth of 4' with tamped earth or concrete as backfill.
9. Member installation must comply with National Electric Code and applicable city ordinance.
10. Plastic (PVC) conduit and clamps will not be accepted for use between the main disconnect, meter base, and weatherhead.
11. If a request is made to connect service and the member meter pole fails to meet required specifications, Tri-County Electric Co-op will not connect service and the member will be billed additional trip charge to connect service once corrections have been made.
12. A #6 copper bond wire must be installed between the breaker box and meter base.
13. Service disconnect must be exterior and within 3' of meter. Refer to [Meter Can Bonding spec](#)



# MEMBER INSTALLED METER POLE/RACK

## 320A Service

Phone: 817.444.3201 ★ tcectexas.com

Be sure all items shown below are on the meter pole **before** contacting the office for connection of electric service:

- Correct meter base
- 3" EMT conduit extended to height of 6'-5" above top of meter base
- Weatherhead
- 350 MCM copper or 500 MCM aluminum, on both line and neutral, must be used between the weatherhead and the line side of the meter base and from the load side of the meter base to the main disconnect
- Main disconnect no larger than rating on meter base
- Ground wire clamped to ground rod
- Neutral wire marked
- Meter loop must be faced in a direction that will allow easy access

### **NOTES:**

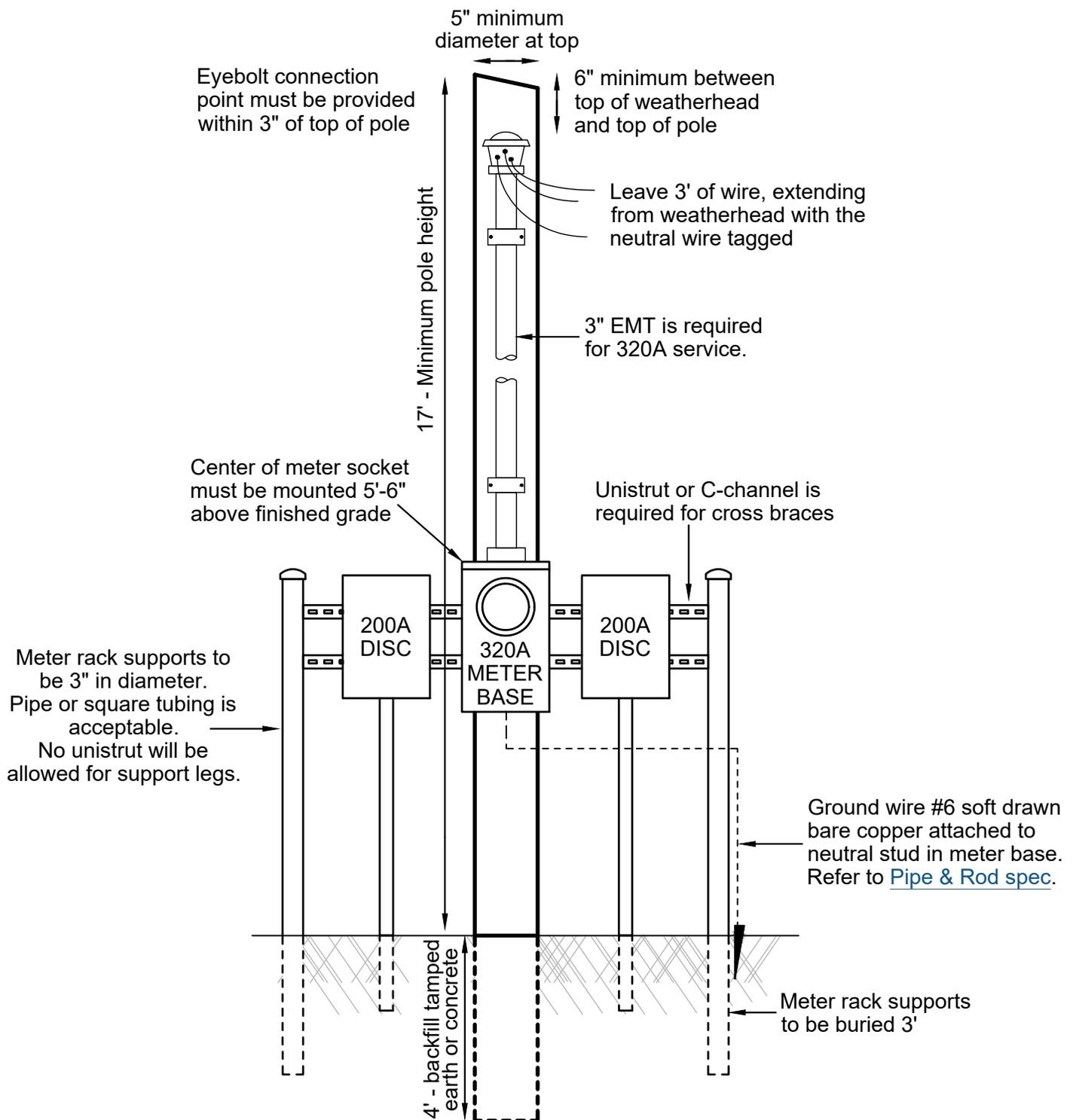
1. Service drop provided and installed by Tri-County Electric Co-op. Maximum allowable distance from TCEC source pole is 50'.
2. Service attachment provided and installed by Tri-County Electric Co-op.
3. Meter sockets must conform to specifications furnished by Tri-County Electric Cooperative and mounted approximately 5'-6" above finished grade.
4. Service entrance conductors and service raceway provided and installed by member. Conductors extend 36" minimum outside of weatherhead. Neutral wire must be properly identified.
5. Members provide and install conduit straps and meter socket. Creosote pole or equal to be a minimum diameter of 5" at top of pole and a minimum height of 17'. Drop loop minimum clearance is 10' from finished grade. Eye bolt to be installed 3" from top facing source.
6. Pole to be set a minimum depth of 4' with tamped earth or concrete as backfill.
7. Member installation must comply with the National Electric Code and applicable city ordinance.
8. Plastic (PVC) conduit and clamps will not be accepted for use between the main disconnect, meter base, and weatherhead.
9. Rack, trough, and nipples must all be metal. PVC is not acceptable.
10. If a request is made to connect service and the member meter pole fails to meet the required specifications, Tri-County Electric Co-op will not connect service, and the member will be billed additional trip charge to connect service once corrections have been made.
11. A #6 copper bond wire must be installed between the breaker box and meter base.
12. Service disconnect must be exterior and within 3' of meter. Refer to Meter Can Bonding spec.
13. Minimum pole dimensions:
  - a. 5" minimum diameter, at the narrowest point, for creosote-treated or commercially pressure-treated wood poles.
  - b. 4.5" outside diameter and minimum 0.237" thickness for round steel poles.
  - c. 4" square and minimum 0.25" thickness for square steel poles.
14. Main disconnect cannot have a rating larger than the meter base.
15. New construction, not receiving a meter 10 days after construction is complete, will be billed the minimum charge based on the applicable rate schedule.



# MEMBER INSTALLED METER POLE/RACK

## 320A Service

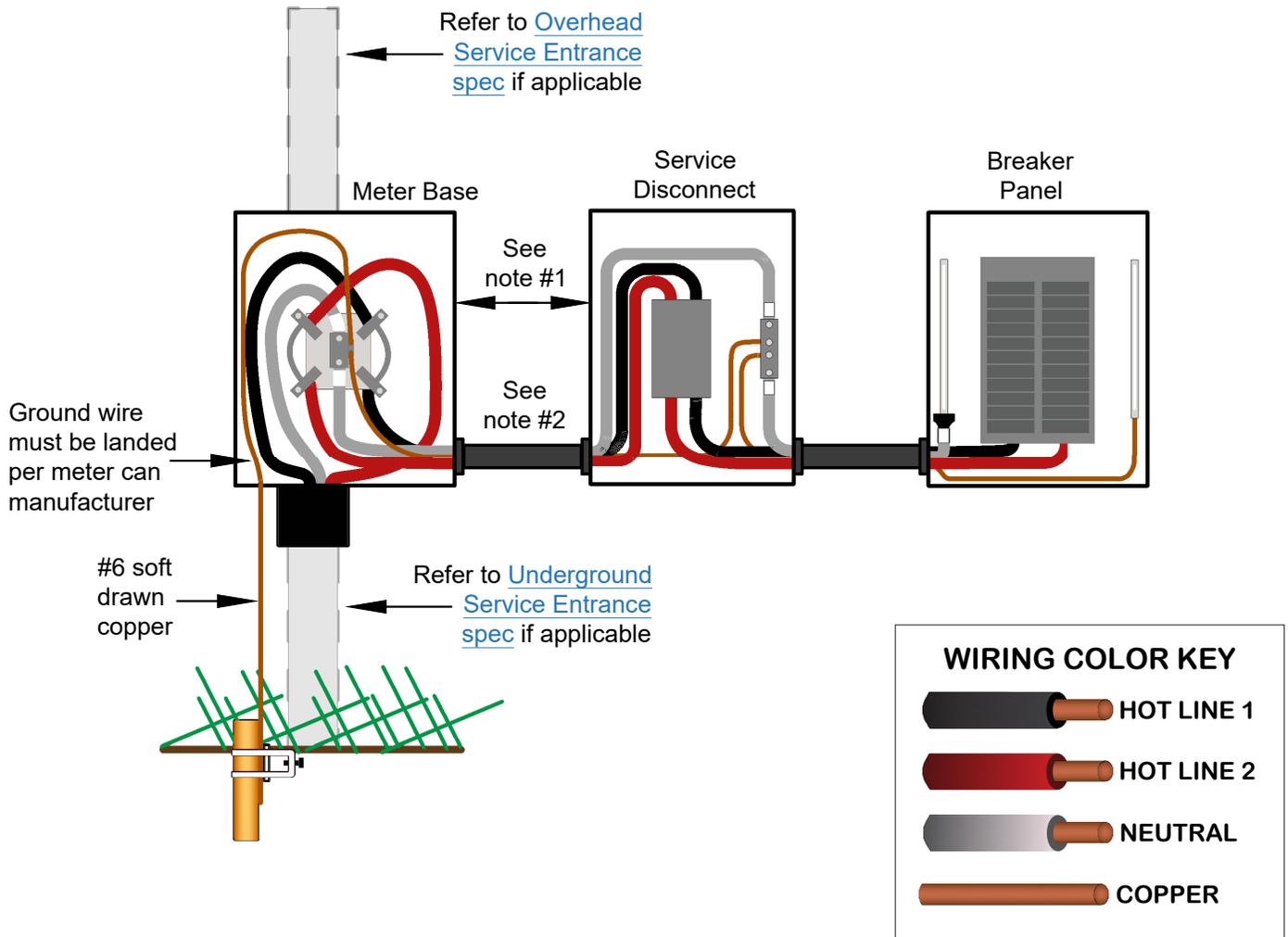
Phone: 817.444.3201 ★ tcectexas.com





# METER CAN BONDING

Phone: 817.444.3201 ★ tcectexas.com



## NOTES:

1. Service disconnect must be outside and within 3' of meter.
2. Conduit between the meter and service disconnect must be rigid metal conduit or EMT.
3. Refer to the [Installation Requirements: Rod + Pipe Electrodes spec](#) for ground rod installation guidelines.
4. Pull out fuses are not acceptable as a service disconnect.

# Rod and Pipe Electrodes

## Installation Requirements



Phone: 817.444.3201 ★ [tcectexas.com](http://tcectexas.com)

The electrode (rod) shall be installed such that at least 8 feet of length is in contact with the soil. It shall be driven to a depth of not less than 8 feet except, where rock bottom is encountered, the electrode shall be driven at an angle not to exceed 45 degrees. The electrode shall be permitted to be buried in a trench that is at least 24 inches deep (only if it cannot be installed vertically or at a 45° angle). The upper end of the electrode shall be flush with ground level and visible to TCEC.

