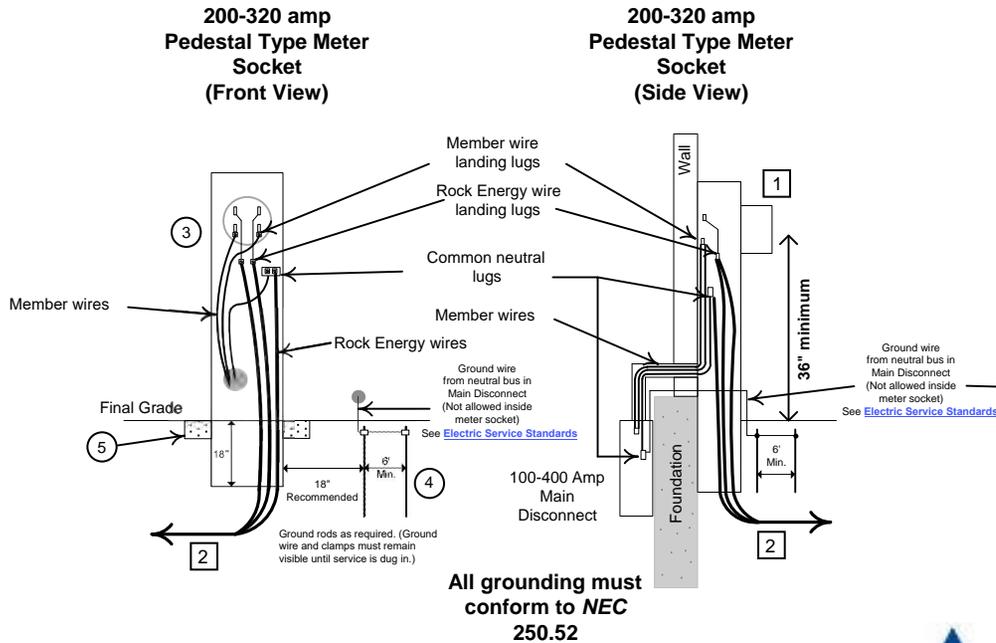


Typical Underground Single Phase 120/240 Volt Residential Metering Guidelines

Pedestal Meter Sockets



Rock Energy furnishes, installs and maintains

1. Meter
2. Underground service cable

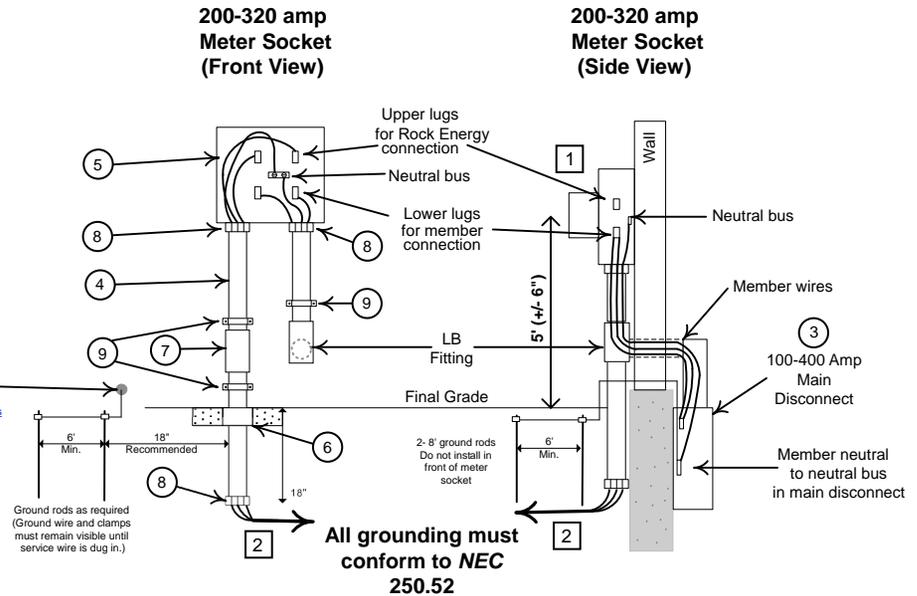
Member furnishes, installs and maintains

3. Approved meter pedestal
4. Grounding in accordance with the NEC. (refer to [Grounding Standards](#))
5. Concrete sleeve (encased in concrete)

NOTES:

- All underground services 200 amp or less require a 200 amp meter socket.
- 200 amp sockets require meter bypass horns at a minimum. Jaw locking bypass lever is preferred.
- 320 amp sockets require a jaw locking bypass lever
- Meter shall be mounted at least 36" above final grade
- Pedestal shall be buried 18" below final grade (a pedestal extension may be required to meet these requirements.)

Standard Meter Sockets



Rock Energy furnishes, installs and maintains

1. Meter
2. Underground service cable

Member furnishes, installs and maintains

3. Member service entrance panel
4. Rigid conduit (Schd. 80 PVC electric rated); Galv. Steel RMC or IMC) 2½" for 200A, 3" for 320A
5. Approved meter socket
6. Concrete sleeve (only required if conduit passes through concrete)
7. Conduit expansion joint - Required where horizontal conduit runs are installed.
8. Conduit insulating bushing
9. Conduit straps
10. Grounding in accordance with the NEC (refer to [Grounding Standards](#))

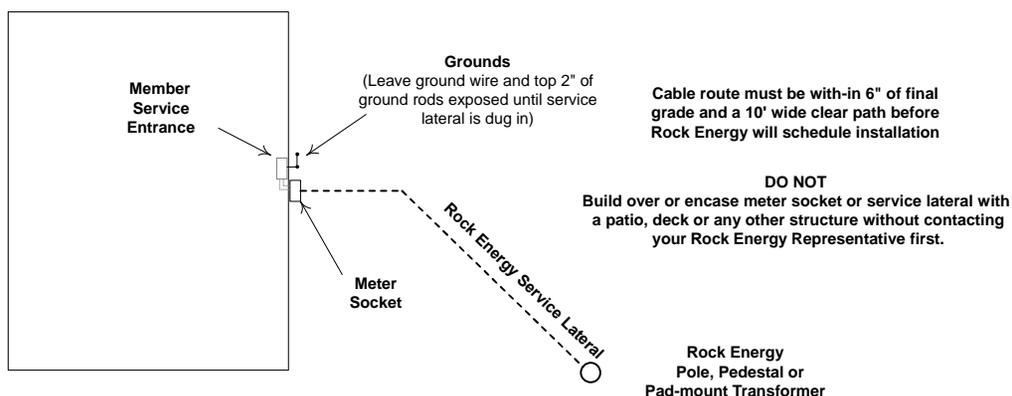
NOTES:

- 200 amp sockets require meter bypass horns at a minimum. Jaw locking bypass lever is preferred
- 320 amp sockets require a jaw locking bypass lever



**All residential electric installations must be inspected and approved by Authority Having Jurisdiction (AHJ)
Contact your State, County, City, Township or Village**

Typical Single Phase 120/240 Volt Residential Metering Guidelines



UNDERGROUND SECONDARY SERVICE

GENERAL INFORMATION

- A. The underground service lateral is defined as Rock Energy's underground service conductors from the last pole, pedestal, transformer or other Rock Energy structure, connecting to the member's metering point, or termination equipment. Rock Energy will install, own and maintain the underground service laterals. Rock Energy will not install underground service laterals across rock quarries, tillable agricultural land or other locations not suitable for underground cables and equipment.
- B. Rock Energy will not terminate service lateral conductors inside the member's building or in member-owned switchgear. The termination point shall be outside the member's building in free-standing or wall-mounted equipment, (self-contained meter), or in a Rock energy owned transformer. Rock Energy will not terminate on a member's circuit breaker or disconnect switch.
- C. Before installing service entrance equipment, the member shall apply to Rock Energy for underground service and obtain approval for the service location. The member shall install, own and maintain all service entrance facilities other than the service lateral (direct feed services), meters, instrument transformers and instrument transformer wiring.
- D. All underground service cables shall be protected from physical damage. Reference: *NEC* 230.32, *NEC* 230.50 & *NEC* 300.5
- E. The proposed cable route shall be clear of all obstructions and within 6 inches of final grade before Rock Energy will install service lateral. A 10 feet wide cable route clear of trees and other obstructions shall be provided by the member.
- F. Grade changes of more than 6 inches over Rock Energy's direct buried cables are not allowed.

SIZING UNDERGROUND FACILITIES

- A. **Conduit** - Number of conduits sized to member's main disconnect.
- B. **Transformer Pad** - Sized to member's main disconnect.
- C. **Underground Conductors** - Sized to member's load and to meet all voltage drop and flicker requirements
- D. **Transformer** - Sized to member's load
- E. **Metering Transformer or Termination Cabinets** - Sized to member's main disconnect

LOCATION OF ROCK ENERGY SECONDARY VOLTAGE CABLES

A. Buildings and Pools

Rock Energy's cables (primary or secondary) shall not be located under buildings or pools. Inform Rock Energy of plans for future buildings, pools etc.

B. Sidewalks, Hard Surfaced Parking Lots, Driveways, Patios and Decks

1. With approval from Rock Energy, buried cables may be installed in conduit through these areas, if no other acceptable route exists.*
*Exception: Cable runs crossing under sidewalks at 90° may not be required to be installed in conduit, unless there are other circumstances that would require conduit.
2. With approval from Rock Energy, a hard surface may be installed over the existing direct buried cable, provided a conduit with capped ends and tracer/pull wire(s), is/are installed 18-24 inches away and parallel to the existing cable, at a 24-36 inch depth.
3. Conduit, if required, is to be installed by the member, or at the member's expense. Services under concrete add conduit to 3 feet beyond edge of concrete.

C. COMPLIANCE

Whenever a direct buried cable installation is found to be out of compliance with any of the stated requirements, or in violation of local, state or national codes, the member's equipment and/or Rock Energy facilities will be modified at the member's expense to bring the installation into compliance.

UNDERGROUND SERVICE INSTALLATIONS

A. Services to Meter Sockets

Rock Energy will install trench and cable for all underground services to self-contained individual meter sockets/pedestals, or a combination of no more than two grouped sockets serving a building. An expansion joint is not required with a vertical only conduit that runs from below ground to the meter socket(s). When a service conductor is installed in conduit(s), an expansion joint is required. Where conduit runs are used for services the member shall install a pull string in the conduit at the time of the conduit installation.

B. Service Terminating in a Metering Transformer Cabinet

The member will install trench and service conduit for all services terminated in a group meter assembly or meter-pack of more than two meters, a metering transformer cabinet or a termination cabinet. An expansion joint shall be required for all wall-mount services in this category. For all services with conduit runs, the member shall install a pull string in the conduit at the time of the conduit installation. Rock Energy will provide service conductor cables and make all connections. Check with Rock Energy for conduit size and number required.

- C. Expansion joint(s) and appropriate sized rigid conduit(s) are required at the service point and shall be installed by the member or their contractor. In addition, conduit(s) shall extend to at least two feet away from the building or structure and shall be installed at the depth required by *NEC/NESC*. Digging around monolithic slab foundations shall be done by the member or their contractor.
- D. The member's service installation shall be in compliance with all requirements of the National Electrical Code (*NEC*) and those of Rock Energy.