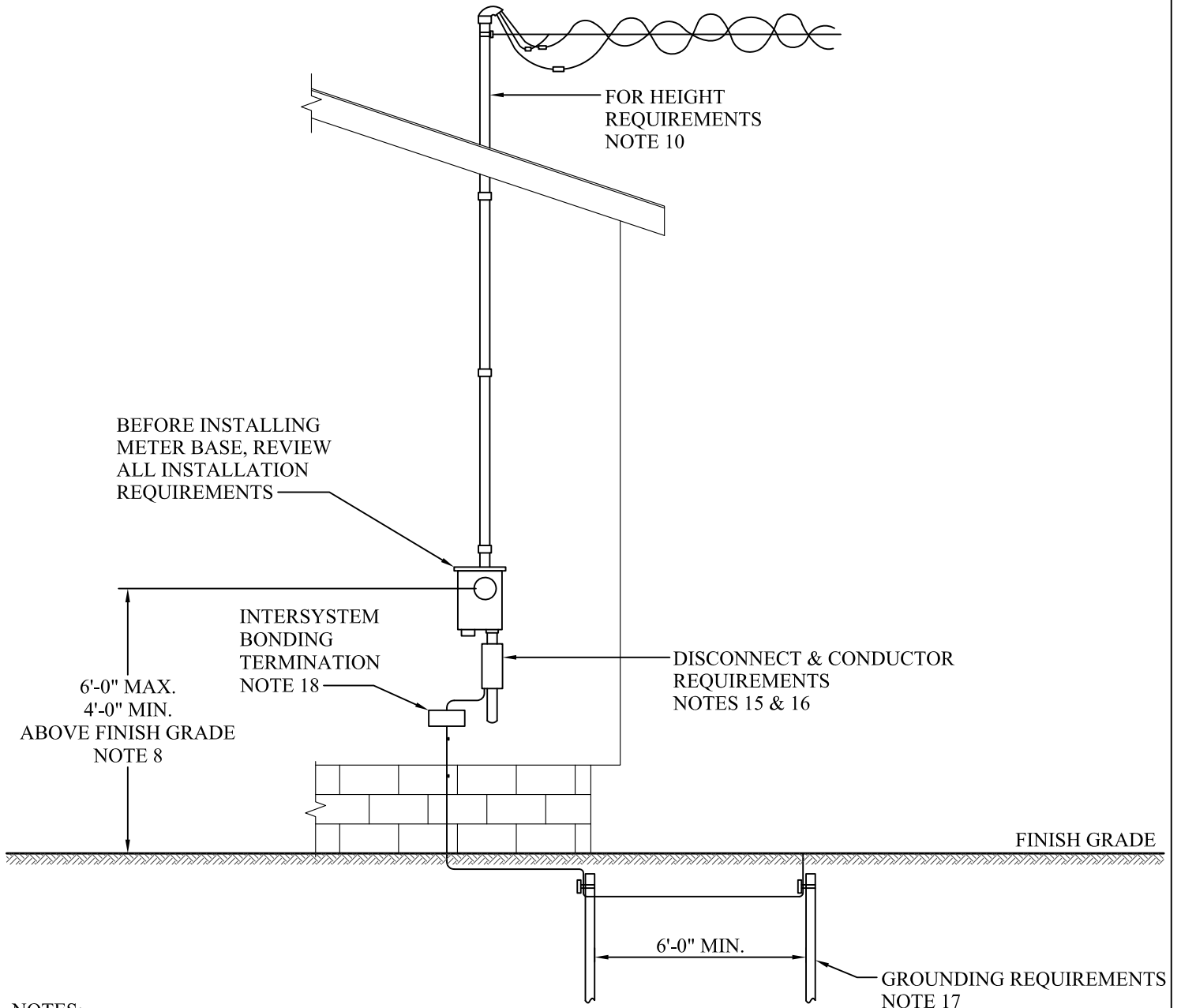


# Installation Requirements For Typical Manufactured Home Overhead Service



**NOTES:**

1. Call Appalachian Power to have meter base location approved.
2. The service attachment point shall be at a height to provide the following minimum clearances.

NATURE OF AREA	VERTICAL CLEARANCE FOR SERVICE DROP
Public roads, streets, parking lots & Other areas subject to truck traffic	18'
Driveways	16'
Pedestrian areas, including decks, Porches & sidewalks	12'

\* See back for additional requirements

## Typical Manufactured Home Overhead Service Installation

3. Before electrical equipment may be installed on a manufactured home, the home must meet the requirements set forth in the current National Electric Code Section 550 and the Housing and Urban Development Construction Standards. If the standards are met, the meter base and outside disconnect can be mounted directly on the home.
4. Wall shall be capable of properly supporting meter base and pipe mast. For pipe mast installations below the roof, a wire holder for the service drop shall be properly secured to the building framing.
5. Meter base shall be installed outside the building wall nearest to APCO service facilities or at a location designated by an APCO representative. Maintain the meter location such that it is out of the way of pedestrian and vehicular traffic and is easily accessible without damage to property or risk of personal injury.
6. Pipe mast must be strapped within 12 inches of the top of the meter base and within 12 inches of the top of the pipe mast. Maximum distance between straps shall not be greater than 30 inches.
7. Inhibitor compound shall be used on all aluminum wire terminations.
8. Install meter base such that the center of the meter base is not less than 4 feet and no more than 6 feet above finished grade.
9. Jacketed SEU Entrance Cable shall be used for non-pipe mast installations. For pipe mast installations non-jacketed insulated conductor as well as jacketed SEU Entrance Cable may be used. Single rated USE cable is not acceptable.
10. For extensions above roof, pipe mast shall be galvanized rigid conduit of IMC. Minimum sizes are 2 inch for 200 amps and 3 inch for 320 amps. Above roof, the minimum point attachment is 18 inches and the maximum is 36 inches. Maximum height for mast above the roof is 42 inches.
11. For mast installations, the upper 10 feet conduit shall be without coupling. If coupling is required for additional height, place coupling below roof. Conduit strap shall be installed above and below coupling.
12. Service shall not cross swimming pool.
13. There must be a minimum horizontal clearance for service conductors of 3 feet from windows, doors, porches or similar locations.
14. Provide a minimum of 2 feet additional entrance conductor beyond the point of attachment or weather head.
15. The disconnect must have an additional breaker that is capable of serving an external load. Four (4) wire entrance conductors shall be installed between disconnect and main panel.
16. Service entrance conductors (from disconnect to panel main breaker) shall be triple-rated. Triple-rated is defined as a conductor with a rating for wet/damp locations, a flame retardant rating and a rating for underground installation. Examples of ratings include RHW, RHH, USE-2, etc. Conduit is required for the entire run of cable and shall be securely fastened to the underside of the manufactured home.
17. Ground wire conductor shall not pass through or be connected within the meter base. Ground rods and ground connections shall be 6 inches below final grade. A total of two (2) 5/8 inch X 8 foot copper clad ground rods and UL approved clamps shall be utilized. On new installations, the ground conductor shall be continuous from the service panel or disconnect through the first ground rod and to the second ground rod. For existing services, the second ground rod can be added without replacing the original ground conductor as long as it is properly connected and bonded to the first ground rod. There shall be a minimum distance of 6 feet between ground rods and #4 copper is the minimum wire size.
18. On new installations and existing installations where alterations are made, an intersystem bonding termination shall be provided externally to enclosures at the service equipment. The grounding conductor shall be continuous through the intersystem bonding termination. A meter box ground clamp is not permitted.

**These guidelines are for informational purposes only. Appalachian Power does not warrant that the information is in every aspect accurate and makes no warranties against regarding results from the usage of these guidelines. APCO shall have neither liability nor responsibility to any person or entity with respect for any loss or damage caused, or alleged to be caused, directly or indirectly by the information contained herein.**