

HELPFUL TIPS TO PASS INSPECTIONS

ACCESS THE OHIO REVISED CODE CHAPTER 4781-6 FOR INSTALLATION GUIDELINES

<https://codes.ohio.gov/ohio-administrative-code/chapter-4781-6>

FOOTER INSPECTION: The footer inspection is the first inspection you will need after you complete the application for a permit and get approval. This will be either an open hole inspection of the forms and reinforcement, if required, or an inspection to determine if the re-use of existing foundation is permitted for the set of this home.

This inspection will be **BEFORE** placing or pouring concrete. Once the foundation inspection is completed, installation of the home can begin. Home must be properly tied down before the electrical inspection can be done. See attached diagrams.

ELECTRICAL INSPECTION: The electrical inspection is the second inspection. This is done before the power company can electrify the home. Once the electrical work is complete, you can make a request for the electrical inspection. The inspection agency will provide an electrical safety inspector (ESI) to perform this inspection. The agency will notify the power company that power may now be connected to the home. The local power company will NOT energize the home without an inspection from an ESI. See attached diagrams.

HERE ARE A FEW TIPS FOR THE ELECTRICAL INSPECTION

- *Outside disconnect must be within 30 feet of the home
- *A 4-wire system is required for the feeders
- *Cannot use cable, must be individual wires.
- *2 ground rods are required at the service disconnect, spaced a minimum 6 feet apart, tied together with #4 copper.
- *Feeders must be in electrical conduit at a minimum depth of 30" underground from the disconnect to subpanel in home.
- *Once under the home, conduit does NOT have to be buried underground BUT wire must still be in conduit until it reaches the subpanel.
- *Ground wire in subpanel must terminate on the ground bar with bare copper grounds, NOT neutral bar.
- *If installing a double wide home, make sure both halves are bonded together
- *Close up extra knock out holes in disconnect

FINAL INSPECTION: The third inspection is the final inspection. After all the work on the home has been completed you can request the final inspection, After the home has passed the final inspection, a seal will be placed on the breaker box in the home, and the home is now approved for occupancy. Moving into the home prior to the final seal placement is subject to fines and legal action.

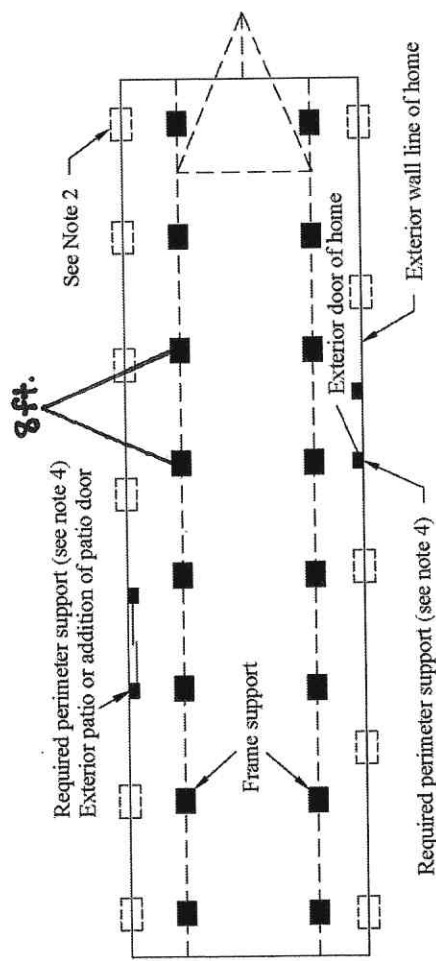
HERE ARE A FEW TIPS FOR THE FINAL INSPECTION

- *Inspector will check the outside perimeter of the home and underneath the home.
- *Inspector will be required to enter the home during this Inspection.
- *Inspector will ensure that all smoke detectors are placed in the home and working properly.
- *Homes built before September 2002 require at least 2 working smoke detectors. Homes built after September 2002 shall have Interconnection smoke detectors, with battery backup, in each bedroom and at least one in the common area.
- *Inspector will check for water leaks under sinks, make sure water is working in kitchen and bathrooms, including toilets.
- *Inspector will check to make sure there are 2 safe exits out of the home with no obstructions.
- *Inspector will check electrical outlets, lights, ceiling fans, and permanent heating to make sure all are in working order.
- *Heat tape and insulation is required on the waterline under the home UNLESS the home has a mason/block crawlspace.
- *Skirting is required with proper ventilation.

REQUIREMENTS FOR PORCHES/LANDINGS

If more than 2 steps are needed to enter the home, a 3ft x 3ft landing is required. This landing must be at 2 entrance/exits of the home. If the landing is over 29 inches in height, a handrail is required. The spindles on the handrail must be less than 4 inches apart. Lattice that has been secured properly is also acceptable instead of spindles. See attached pictures for examples of minimum porch requirements.

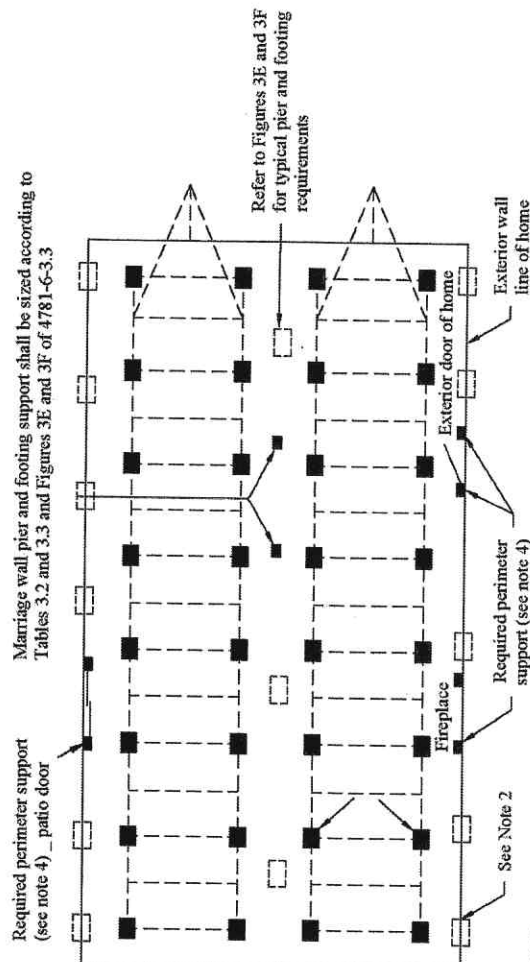
Figure 3H - Typical Blocking diagram for Single Section Homes



Notes:

1. Refer to Table 3.2 of 4781-6-03.3 for pier and footing requirements when frame blocking only is used.
2. In addition to blocking required by 4781-6-03.3 (K) per table 3.2 of 4781-6-03.3
3. End piers under main I-beam may be set back a maximum 24 in. as measured from the outside edge of the floor to the center of the pier.
4. Place piers on both sides of sidewall exterior doors, patio doors, and sliding glass doors; under porch posts, factory installed masonry fireplaces and wood stoves; under jamb studs at multiple window openings; and at any other sidewall openings 48" or greater in width. See 4781-6-03.3 for additional requirements and for locating perimeter supports.

Figure 3I - Typical Blocking Diagram for Multi-section Homes



Notes:

1. Refer to Table 3.1 for pier and footing requirements when frame blocking only is used.
2. In addition to blocking required by 4781-6-03.3 per Tables 3.2 and 3.3 of 4781-6-03.3
3. End piers under main I-beam may be set back a maximum 24 in. as measured from the outside edge of the floor to the center of the pier.
4. Place piers on both sides of sidewall exterior doors, patio doors, and sliding glass doors; under porch posts, factory installed masonry fireplaces and wood stoves; under jamb studs at multiple window openings; and at any other sidewall openings 48" or greater in width. See 4781-6-03.3 for additional requirements and for locating perimeter supports.
5. When an end pier under the mate-line also serves as a column pier, it may be setback a maximum of 6 in. as measured from the inside edge of the exterior wall to the center of the pier.

(2) Acceptable types of footings.

- (a) Concrete. Footings are to be either:

- (i) Four inch nominal precast concrete pads meeting or exceeding "ASTM C 90-0220, Standard Specification for Load Bearing Concrete Masonry Units," without reinforcement, with at least a twenty-eight day compressive strength of three thousand pounds per square inch (psi);

TABLE I
POLE DIMENSIONS AND SETTING DEPTH

LENGTH OF POLE (FEET)	MINIMUM SETTING DEPTH (FEET)	MINIMUM POLE CIRCUMFERENCE (INCHES)	MINIMUM POLE DIAMETER (INCHES)
		AT TOP 15"	AT TOP 4 3/4"
		AT GROUND LINE	AT GROUND LINE
18'	4'-0"	17 1/2"	5 1/2"
20'	4'-6"	18 1/2"	6"
22'	4'-6"	19 1/2"	6 1/4"
25'	5'-0"	20"	6 1/2"

GENERAL CONDITION NOTES:

THE COMPANY WILL BE RESPONSIBLE FOR:

- SPECIFYING THE SERVICE POLE LOCATION, AND SERVICE DROP ATTACHMENT HEIGHT. NOTE: (NEC) RECOMMENDS THAT THE SERVICE EQUIPMENT BE "IN SIGHT FROM" AND WITHIN 30' OF THE MOBILE HOME.
- PROVIDING AND INSTALLING THE OVERHEAD SERVICE DROP.
- PROVIDING THE METER BASE TO CUSTOMER WHERE REQUIRED.
- INSTALLING AND REMOVING THE METER.

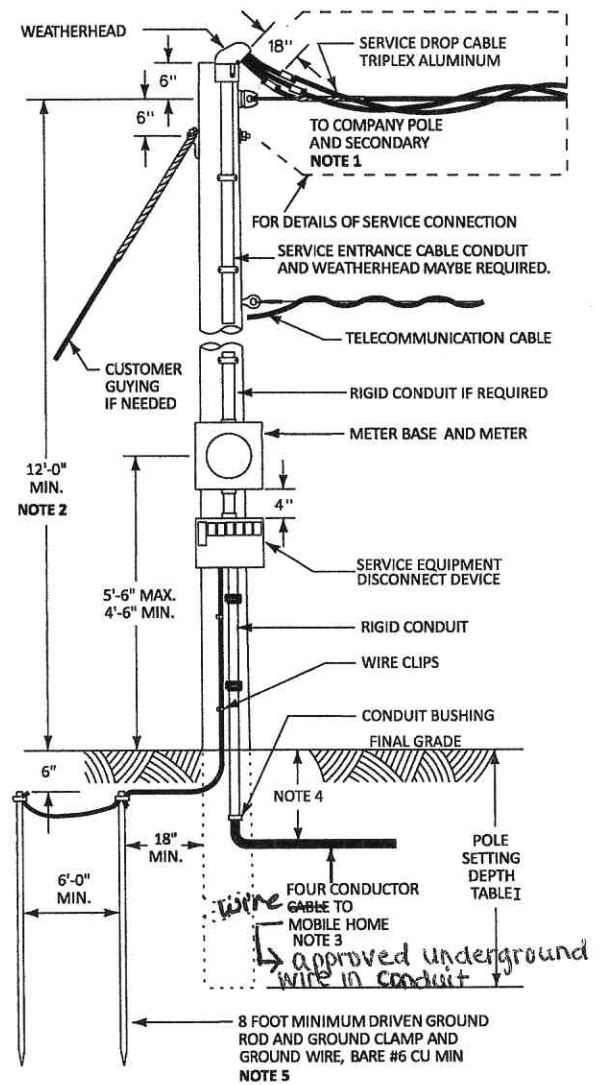
THE CUSTOMER WILL BE RESPONSIBLE FOR:

- PROVIDING AN ADEQUATE GROUND TO THE FRAME OF THE SERVICE EQUIPMENT DISCONNECT DEVICE. GROUND IN ACCORDANCE WITH NEC ARTICLE 250 AND LOCAL CODES. GROUNDING IS TYPICALLY PROVIDED BY 8'-0" DRIVEN GROUND ROD(S) OR BY A METALLIC WATER PIPE BONDED TO 8'-0" DRIVEN GROUND ROD(S). IF A METALLIC WATER PIPING SYSTEM IS PRESENT, IT MUST BE BONDED TO THE 8'-0" DRIVEN GROUND ROD(S).
- PROVIDING AND SECURELY INSTALLING THE SERVICE ENTRANCE CABLE, RIGID CONDUIT AND WEATHER HEAD AS REQUIRED BY LOCAL CODES. NON-METALLIC CONDUIT PERMITTED IF INSTALLED IN ACCORDANCE WITH NEC AND APPROVED BY LOCAL INSPECTION AUTHORITY. SERVICE ENTRANCE CONDUCTORS SHALL PROJECT FROM WEATHERHEAD A MINIMUM OF 18 INCHES. ONLY POWER SERVICE CONDUCTORS ARE ALLOWED TO CONTACT THE SERVICE MAST, NEC (230-28).
- PROVIDING AND INSTALLING SERVICE EQUIPMENT DISCONNECT DEVICE. TYPICAL CONFIGURATIONS SHOWN (OTHER CONFIGURATIONS AVAILABLE). THE DISCONNECT DEVICE IS TO HAVE OVERCURRENT PROTECTION AND TO BE IN A WEATHERPROOF ENCLOSURE. CUSTOMER TO SELECT U.L. LISTED EQUIPMENT BEST SUITED TO THEIR NEEDS.
- SECURELY MOUNT THE METER BASE IN A PLUMB POSITION. METER MUST FACE STREET OR ACCESS WALKWAY.
- PROVIDING AND SECURELY INSTALLING THE SERVICE POLE AND GUYING (IF NEEDED). SERVICE POLE IS TO BE TREATED WITH AN EPA REGISTERED PRESERVATIVE. POLE SETTING DEPTH TO BE IN ACCORDANCE WITH TABLE I.

GENERAL CONSTRUCTION NOTES:

- THIS INSTALLATION IS FOR A SINGLE MOBILE HOME ONLY, FOR MOBILE HOMES IN PARKS, REFER TO FIGURE 9.
- THE SERVICE ATTACHMENT SHALL BE INSTALLED AT A HEIGHT THAT MAINTAINS PROPER CLEARANCES FOR SERVICE DROP CONDUCTORS, REFER TO FIGURE 5.
- A GROUNDING AS WELL AS A GROUNDED CONDUCTOR MUST EXTEND BETWEEN THE MOBILE HOME AND ITS ADJACENT SERVICE EQUIPMENT. NEITHER THE FRAME OF THE MOBILE HOME NOR THE FRAME OF ANY DISTRIBUTION PANEL OR APPLIANCE MAY BE CONNECTED TO THE NEUTRAL (GROUNDED) CONDUCTOR IN THE MOBILE HOME. THE GROUNDING AND GROUNDED CONDUCTOR ARE BONDED TOGETHER ONLY ON THE SUPPLY SIDE OF THE SERVICE DISCONNECT DEVICE. REFER TO ARTICLE 550 OF NEC GROUNDING.

SEE GENERAL CONDITION NOTES FOR POWER COMPANY AND CUSTOMER RESPONSIBILITIES



GENERAL CONSTRUCTION NOTE CONTINUED:

- BURIAL DEPTH IS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE BURIED CABLE OR CONDUIT. THE POWER COMPANY (AEP) SHALL SPECIFY THE REQUIRED BURIAL DEPTH PER OPERATING COMPANY AS PRESCRIBED IN THE PROCEEDING LIST:

APCO	= REQUIRES A BURIAL DEPTH OF 30"
KYPCO	= REQUIRES A BURIAL DEPTH OF 30"
I&M	= REQUIRES A BURIAL DEPTH OF 30"
OHIO	= REQUIRES A BURIAL DEPTH OF 30"
TEXAS	= REQUIRES A BURIAL DEPTH OF 36"
PSO	= REQUIRES A BURIAL DEPTH OF 36"
SWEPCO	= REQUIRES A BURIAL DEPTH OF 36"

AND/OR CONFORM TO ANY OR ALL AUTHORITY HAVING JURISDICTION. THE POWER COMPANY (AEP) HAS PRESCRIBED THE BURIAL DEPTH SHALL NOT BE LESS THAN STATED DEPTH ON THE PRECEDING LIST UNLESS IMPOSSIBLE TO BE ACHIEVED OR IS SUPERSEDED BY LOCAL AUTHORITY HAVING JURISDICTION. IF THE DEPTH IS IMPOSSIBLE TO ACHIEVED AEP'S VERIFICATION WILL BE NEEDED. HOWEVER, NOT TO BE LESS THAN WHAT IS STATED IN THE NATIONAL ELECTRICAL CODE'S ARTICLES AND TABLES: ARTICLE 300: 300.3(B) (1), 300.3 (C) (1) (2), TABLE 300.5, AND TABLE 300.50

- CUSTOMER GROUNDING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. IN ARKANSAS, OKLAHOMA, LOUISIANA AND TEXAS, THE GROUND WIRE SHALL BE CONNECTED IN THE METER SOCKET. THE CUSTOMER SHALL HAVE A MINIMUM OF 2 DRIVEN GROUND RODS AT LEAST 6 FEET APART.

SINGLE MOBILE HOME OVERHEAD SERVICE
FIGURE 4

