



**SERVICE ENTRANCE
MANUFACTURED (MOBILE) HOME**
Single Phase, 100, 200, or 320 Amp

01-01-99
ER 19-238
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USE: Arrangement of service equipment to supply electric energy to manufactured (mobile) homes, outside of mobile home parks.

PREVIOUS REVISION	ORIGINATED 01-99	PREVIOUS NUMBER
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LATEST REVISION: New

- REFERENCE:** - Indiana Electrical Code / National Electrical Code (IEC/NEC), latest revision
- Code of Federal Regulations, part 3280: Manufactured Home Construction and Safety Standards (HUD Code), latest revision

SPECIFICATION:

1. GENERAL

- 1.1 Service entrance installations for manufactured homes, shall meet all requirements referenced above, where applicable.
- 1.2 Service entrance installations are subject to approval by any local, code enforcing official, where they exist. Where they exist, no service entrances will be energized without such approval.
- 1.3 Service entrance placement can be either 1) a free standing structure / free standing pedestal, intended for service equipment, or 2) on the home when all applicable HUD regulations are met.
- 1.4 Service equipment shall be mounted plumb and securely, and installed in compliance with the following NIPSCO Standards; ER 5-500 (Entrance Equipment), ER 5-550 (Entrance Run), and ER 7-500 (Grounding).
- 1.5 Service entrances may be installed for overhead or underground service.
- 1.6 Meter sockets, disconnects, conduit, and other associated service equipment hardware shall be supplied by, and installed by the customer. See ER 19-240 for overhead meter sockets, or ER 19-270 for underground meter sockets, which are approved for purchase by customer.
- 1.7 If the disconnect inside the home (factory installed), is not rated for use as service equipment, and is therefore fed by a (4) four wire feeder, a service rated disconnecting means shall be installed outside of the home after the meter socket. The neutral shall be bonded to the disconnect enclosure only in this outdoor disconnect, and isolated (separated) in the indoor (factory installed) disconnect. (see Figure1 for clarification)

MOBILE HOME UNDERGROUND SERVICE
100-200AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE

PROVIDED & INSTALLED BY I & M

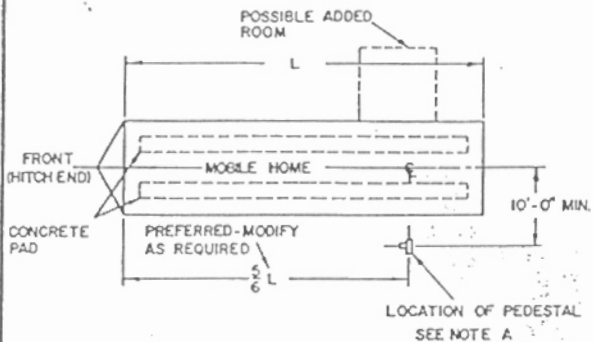
- ① 3 CONDUCTOR UNDERGROUND SERVICE, SEE NOTE "F".
- ② NONMETALLIC CONDUIT IF REQUIRED, SEE NOTE "G".

PROVIDED & INSTALLED BY CUSTOMER

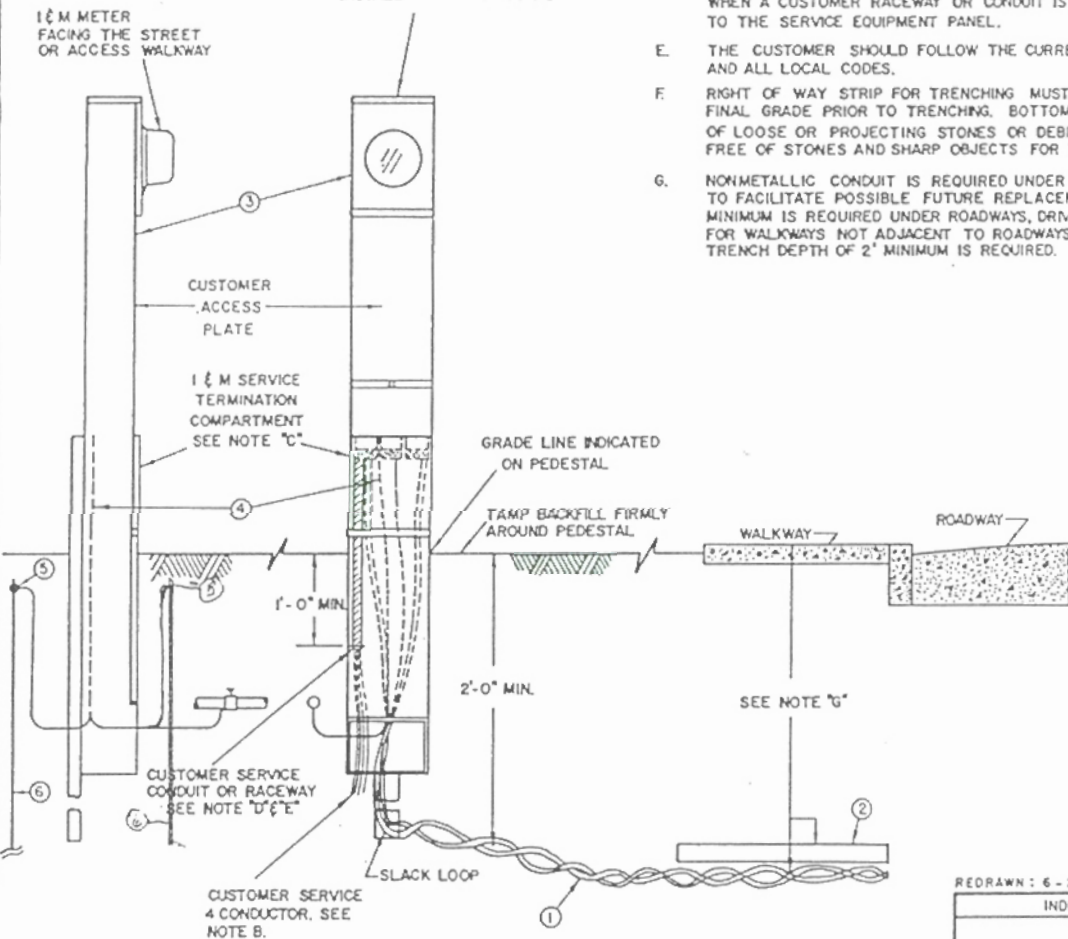
- ③ APPROVED PEDESTAL, SEE I & M MANUFACTURERS. SEE NOTES A, D & E.
- ④ GROUND WIRE #6 BARE CU MINIMUM TO GROUND ROD & METALLIC UNDERGROUND WATER PIPE IF AVAILABLE. SEE NOTE E. X 2.
- ⑤ N.E.C. APPROVED GROUND CLAMP SUITABLE FOR BURIAL.
- ⑥ N.E.C. APPROVED GROUND ROD (5/8" X 8' GALV. MINIMUM)

NOTES:

- A. SOME MOBILE HOMES REQUIRE ELECTRIC SERVICE ON THE RIGHT REAR SIDE, IN WHICH CASE BACK-TO-BACK PEDESTALS MAY BE REQUIRED. I & M MUST APPROVE THE PEDESTAL LOCATION.
- B. A GROUNDING AS WELL AS GROUNDED CONDUCTOR MUST BE EXTENDED 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 & GROUNDED CONDUCTORS ARE BONDED TOGETHER ONLY ON THE SUPPLY SIDE OF THE SERVICE DISCONNECTING MEANS. REFER TO CURRENT NATIONAL ELECTRIC CODE.
- C. PEDESTAL CAN BE USED AS A JUNCTION BOX TO EXTEND CONDUCTOR TO ANOTHER SERVICE PEDESTAL.
- D. THE CUSTOMER'S SERVICE ENTRANCE CONDUCTORS MAY BE INSTALLED EITHER THROUGH A CONDUIT (WITH INSULATED BUSHINGS) ENTERING THE PEDESTAL ABOVE GROUND OR THROUGH THE BOTTOM OF THE PEDESTAL WHEN A CUSTOMER RACEWAY OR CONDUIT IS PROVIDED WHICH EXTENDS UP TO THE SERVICE EQUIPMENT PANEL.
- E. THE CUSTOMER SHOULD FOLLOW THE CURRENT NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.
- F. RIGHT OF WAY STRIP FOR TRENCHING MUST BE GRADED TO WITHIN 4" OF FINAL GRADE PRIOR TO TRENCHING. BOTTOM OF TRENCH MUST BE FREE OF LOOSE OR PROJECTING STONES OR DEBRIS. BACKFILL SHALL BE EARTH FREE OF STONES AND SHARP OBJECTS FOR THE FIRST 6" ABOVE THE CABLE.
- G. NONMETALLIC CONDUIT IS REQUIRED UNDER DRIVES, STREETS, PATIOS ETC. TO FACILITATE POSSIBLE FUTURE REPLACEMENT. A TRENCH DEPTH OF 3' MINIMUM IS REQUIRED UNDER ROADWAYS, DRIVEWAYS & ADJACENT WALKWAYS. FOR WALKWAYS NOT ADJACENT TO ROADWAYS, DRIVEWAYS & PATIOS, A TRENCH DEPTH OF 2' MINIMUM IS REQUIRED.



TYPICAL PEDESTAL
INSTALL IN PLUMB POSITION



REDRAWN : 6-28-85 REV:11-30-87 MA

INDIANA MICHIGAN POWER CO.	
MOBILE HOME UNDERGROUND SERVICE	
DRAWN: W.A.	SCALE: N.T.S.
CHECKED: DPK	DATE: 8-26-85
APPROVED: EJM	DWG. NO. 8-4-2219-0
METER & CUSTOMER SERVICE STANDARD	FILE: METER LAB.
	DWG. NO. M & CS-4

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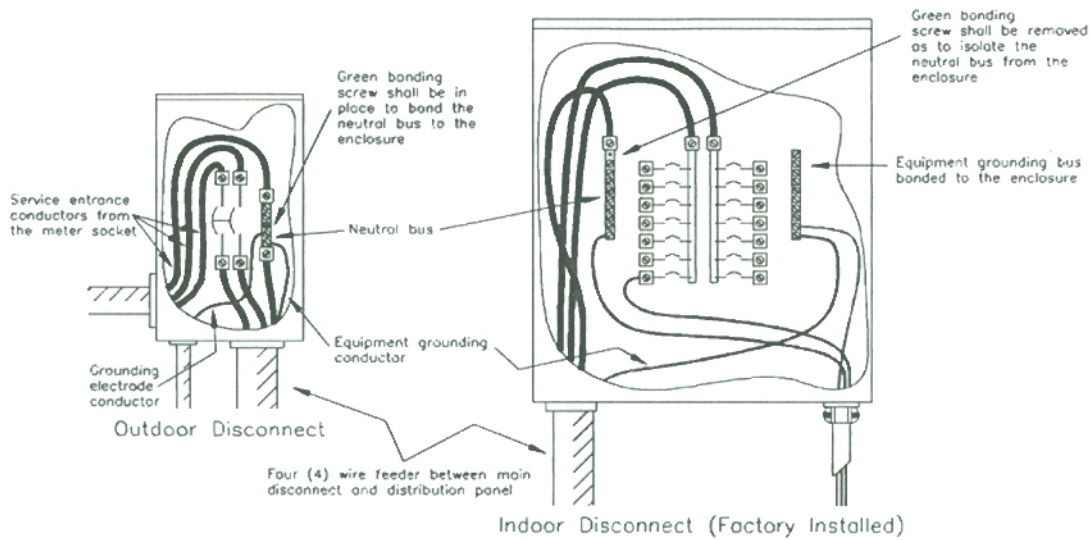
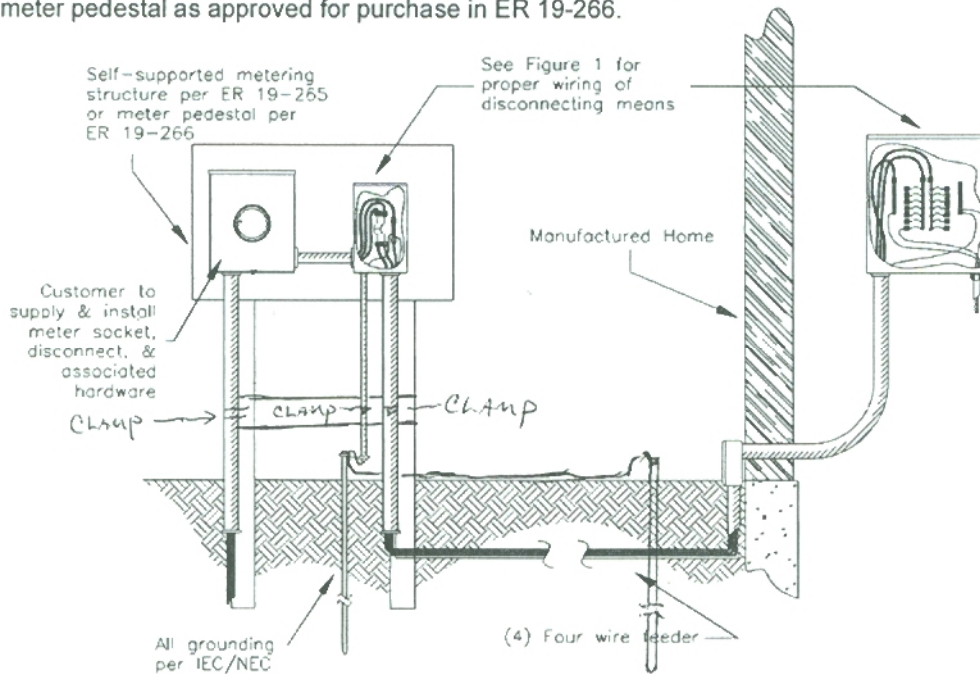


Figure 1 - Wiring of disconnects

2. OPTION #1 - SERVICE ENTRANCE ON REMOTE STRUCTURE

Service Entrance Equipment may be installed on a remote, free standing structure, no more than 30 feet from an exterior wall of the home. The structure shall be of the type approved in ER 19-265 or a meter pedestal as approved for purchase in ER 19-266.



**Figure 2 - Typical underground service entrance on remote structure
 (service entrances may be overhead or underground)**



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3. OPTION #2 - SERVICE ENTRANCE ON HOME

Service entrances installed on manufactured homes shall comply with IEC/NEC code, and NIPSCO Standards ER 19-240 (Service Entrance - OH) or ER 19-270 (Service Entrance - UG).

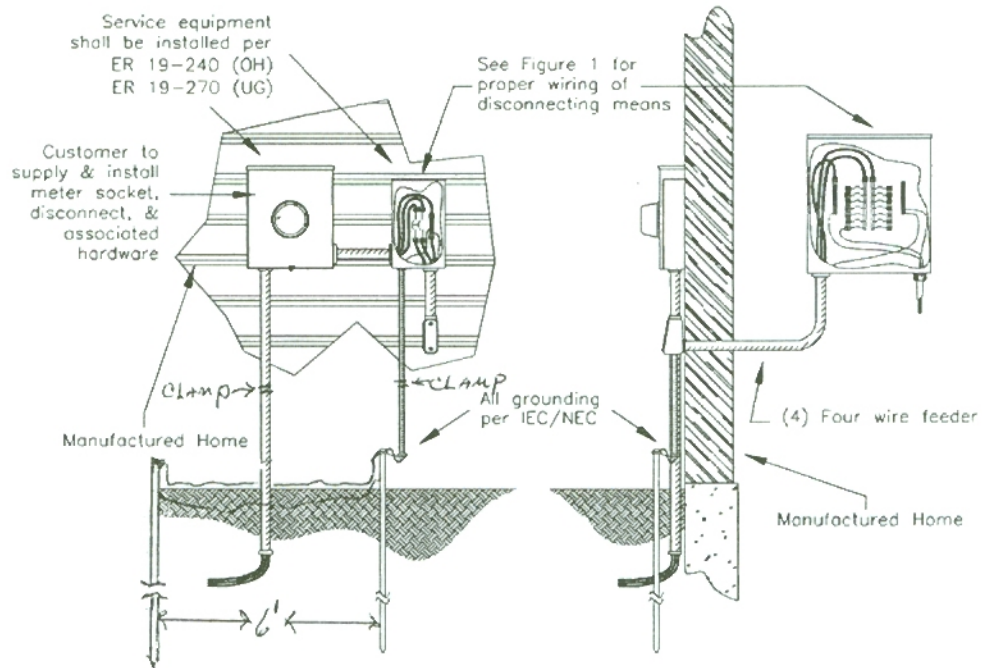


Figure 3 - Typical underground service entrance on manufactured home (service entrances may be overhead or underground)