Questions? Be safe, not sorry.
800-521-2232

Duke Energy is dedicated to providing you with reliable and efficient electrical service. This brochure shows the details of meter base wiring for underground single-phase, 120/240 volt installations. The maximum service size for these installations is 200 amperes.

The illustration inside shows the items you are responsible for supplying and/or installing. If you have questions about any of these specifications or if your installation differs from the one shown here, please contact Duke Energy at 800-521-2232 to apply for service. We will be happy to explain these requirements to you or suggest other sources of help.

To schedule installation of electrical service, please refer to our Checklist For Service Installation. If you do not have a copy of this checklist, please ask for one when you call. We look forward to serving you!

Issuance of this brochure does not release the customer from responsibility to install, operate and maintain facilities in an approved and safe manner, nor does Duke Energy assume any duty to inspect such facilities or to otherwise determine their adequacy or condition.

Duke Energy may revise, without notice, the requirements outlined in this brochure. The customer is obligated to maintain their facilities in accordance with all applicable revised Duke Energy requirements.

All wiring installations must meet the requirements of the National Electrical Code, the National Electrical Safety Code, local codes and ordinances, and inspection authorities, as well as the terms and conditions of electric service of Duke Energy as approved by the Indiana Utility Regulatory Commission.

Equipment and wiring must not present a hazard to Duke Energy personnel, the customer or the general public.

Use of electric energy must not cause unreasonable voltage variations on the Duke Energy lines or disturbances to the service of other customers.

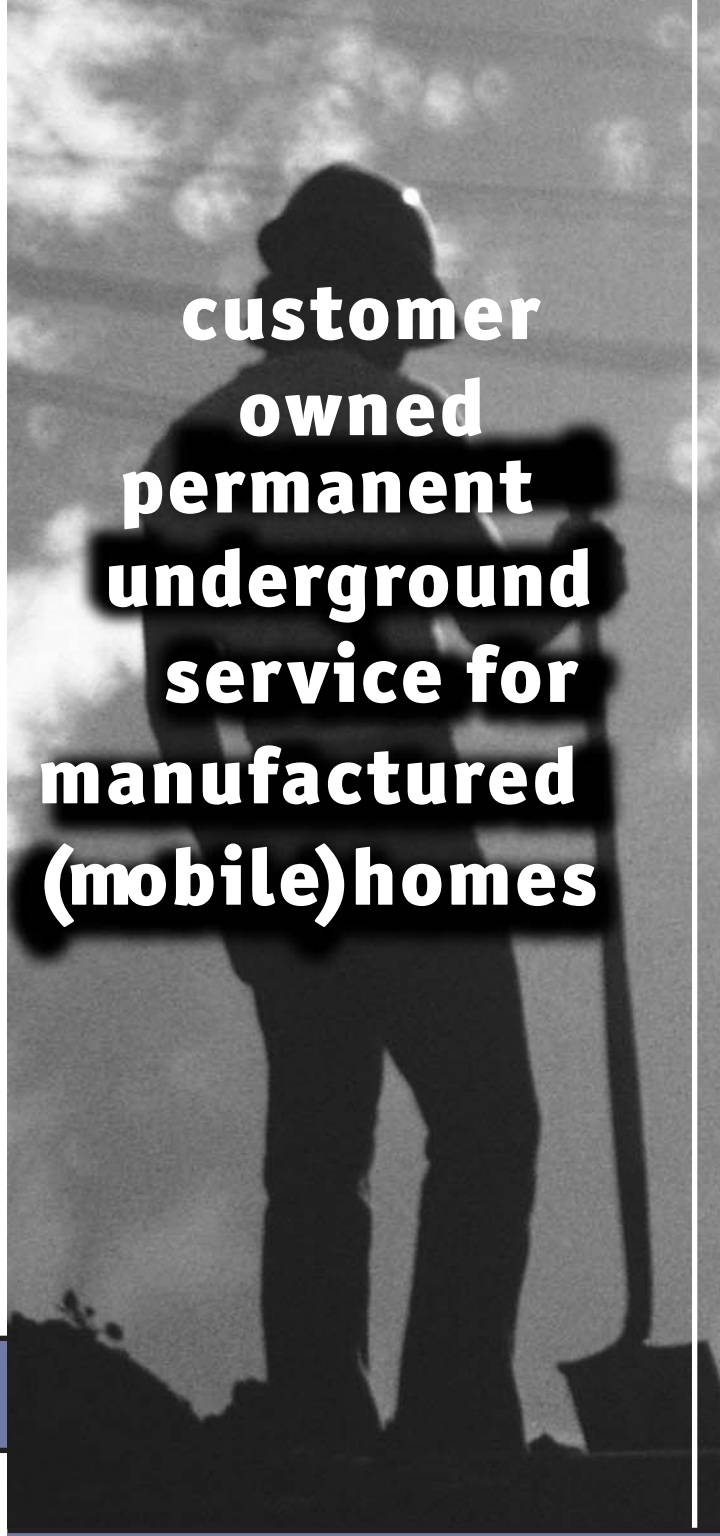
The decisions of local inspection authorities will override the information in this brochure concerning customer equipment. This does not include the location of the meter base.

Ownership of facilities shall remain with the party which supplied the facilities regardless of the party responsible for installation, except as otherwise agreed upon and indicated in writing and on file with Duke Energy. Maintenance of such facilities shall be the responsibility of the owner.

Stay away from power lines.

Duke Energy®

SF 96-6171 R 4/2006



customer owned permanent underground service for manufactured (mobile)homes

Duke Energy®

customer owned permanent underground service for manufactured (mobile) homes

Meter Base Guidelines	
Service Type—120/240 volt, single phase 3-wire	**Manufacturers**
Residential Overhead/Underground 200 amp service, 1 meter position	Milbank, Durham/Square D, Landis & Gyr, T&B/Anchor
Residential Underground 320 amp service, 1 meter position	Milbank, Durham/Square D, Landis & Gyr, T&B/Anchor

Customer Wire Sizes

Breaker Size	Ⓗ Minimum Line Conductor		Ⓝ Neutral Conductor		Ground Wire	
	Alum.	Copper	Alum.	Copper	Alum.	Copper
100 AMP	#2	#4	#6	#8 - #4	#6	#8 - #4
200 AMP	#4/0	#2/0	#2 - #2/0	#4 - #1	#2	#6 - #4
400 AMP	600kcmil	400kcmil-500kcmil	#3 - 400kcmil	#1/0 - 350kcmil	#3/0	#3 - #1/0

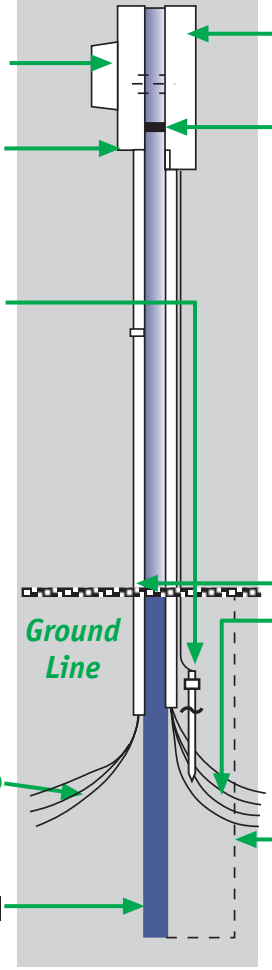
Indicates recommended size

General information for both examples:

- Duke Energy will install meter base wiring to the top lugs.
- Mark all underground obstacles within the trenching area.
- Duke Energy will not be responsible for damage to unmarked underground equipment.
- Duke Energy shall approve the location of all meters or meter structures. We also maintain exclusive rights to secure access to the meter and socket.
- Meter pedestal/structure to be installed closest to source. In a mobile home park, pedestal/structure shall be located opposite the end of the hitch and closest to source.

Ⓗ **Hot wires**
Ⓝ **Neutral wires**
Items you supply and install
Items Duke Energy supplies and installs

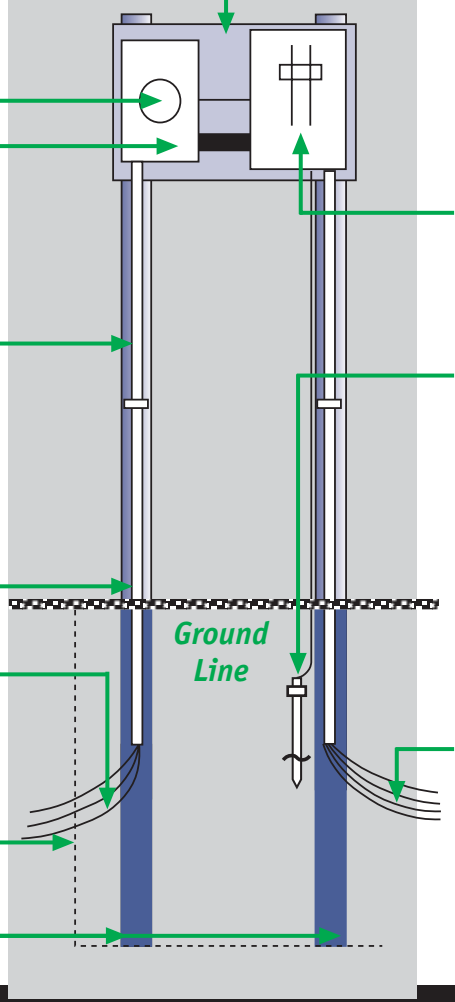
Single Post Example



- Meter
- Meter base. Install with center 5 ft. 6 in. above final grade
- No. 4 copper ground wire attached to a 1/2 in. copper bonded steel rod with at least 8ft. of the rod driven below ground. Install ground wire from the ground rod to the disconnecting device.
- Duke Energy service conductors
- 4 in. x 6 in. dimensional treated post minimum of 10 ft. in length
- Weatherproof fused disconnecting device
- 2 1/2 in. hole with 2 in. metallic conduit through it. Dig a hole through the post 1 ft. from the top. Insert conduit and attach to meter base and disconnecting device with (4) locknuts. Use nylon bushings on the ends.
- Manufactured (mobile) home service conductors. Bury (4) insulated conductors a minimum of 24 in. below grade (see wire chart).

- Schedule 80 plastic, rigid steel or intermediate metallic conduit with a minimum diameter of 2 in. and a maximum diameter of 3 in., extended a minimum of 18 in. below grade.
- Minimum pole depth of 4 ft.

Double Post Example



- Meter
- Meter base. Install with center 5 ft. 6 in. above final grade. Attach to treated boards.
- 2 in. metallic conduit connecting the meter base and disconnecting device. Use nylon bushings at the ends of all metallic conduit.
- Duke Energy's service conductors
- (2) 4 in. x 4 in. dimensional treated posts a minimum of 10 ft. in length placed 3 ft. apart.
- Secure (2) 3 ft. long, 2 in. x 8 in. treated boards between the posts near the top and on the side.
- Weatherproof fused disconnecting device. Attach to treated boards.
- No. 4 copper ground wire attached to a 1/2 in. copper bonded steel rod with at least 8 ft. of the rod driven below ground. Install ground wire from the ground rod to the disconnecting device.
- Manufactured (mobile) home service conductors. Bury (4) insulated conductors a minimum of 24 in. below grade (see wire chart).

All equipment must be in good condition and installed to meet National Electrical Code requirements.

in Indiana 800-382-5544 "call before you dig"