

CONDUIT INSTALLATION SPECIFICATIONS

For underground service wires

Corn Belt Energy Corporation encourages the installation of conduit on all new underground service installations. This method will provide cost savings to our members and offers protection to service wires from accidental damage when digging. Conduit installation does not eliminate the need for a call to JULIE at 8-1-1 whenever excavating.



Your Touchstone Energy® Cooperative 

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Installation Checklist

1. Call JULIE before digging (8-1-1 or 800-892-0123)
2. Ensure correct size and type of meter base
3. Meter base properly installed
4. Service riser installed in left or right knockout of meter base
5. Expansion coupling installed in fully closed position
6. Pullstring installed in conduit
7. Conduit ends marked and protected
8. $\frac{5}{8}$ " x 8' ground rod and ground wire properly installed
9. Member wiring completed and inspected as necessary
10. Service conduit properly installed and inspected by Corn Belt

SUBDIVISION REQUIREMENTS

Corn Belt Energy has identified the following McLean County subdivisions that will require conduit for all service installations, primarily due to difficult terrain and restricted working space as a result of landscaping and/or zero-lot-line development.

This requirement is for the convenience of contractors bidding work in these areas as well as for Corn Belt Energy in scheduling work.

- Evergreen Village
- Fox Hollow
- The Grove on Kickapoo Creek
- Kelley Glen
- Links at Ireland Grove
- Prairie Gardens

Conduit is also required in all zero-lot developments, including:

- Blackstone
- Eagles Landing
- Eagle View South / Villas
- Fox Hollow
- Harvest Pointe
- Heartland Ridge / Heartland Village
- Ireland Grove
- Park West
- Royal Links
- Tipton Trails
- Vineyards / Chateau Estates

New subdivisions will be added periodically. If you have questions about conduit requirements, please contact our Engineering Department at 800-879-0339.

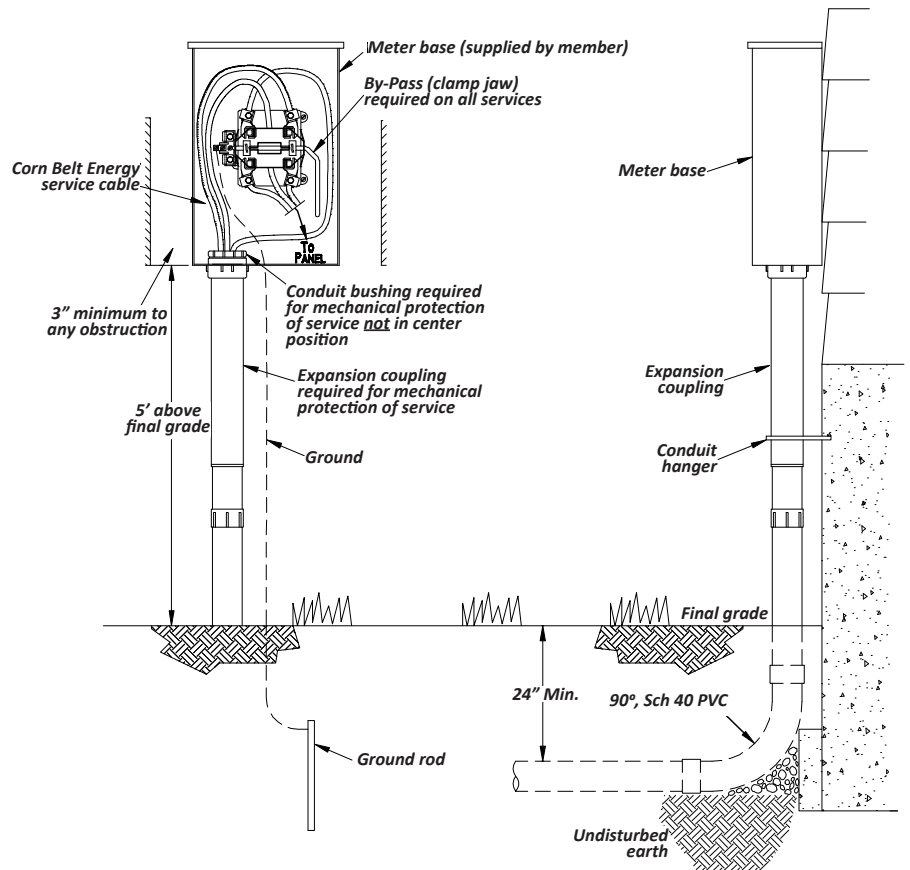
Service Cable & Meter Connection

Residential Meter Base Conduit Specifications

200 and 320 amp clamp jaw/lever by-pass meter bases are the only acceptable installations on single phase 120/240 volt AC service.

Meter bases will be UL listed, Ring less, designed for underground and will have adequate room for Corn Belt wire to enter from the bottom left or right hand knockout and wrap around the meter base to the top connection lugs.

200 amp meter bases will be equipped with lay in lugs up to 350 AL wire. 320 amp and 400 amp meter bases will be equipped with double-lay in lugs up to two-350 AL wires.



Conduit Installation Details

Conduit installations are required to meet NEC, NESC, local codes and all the specifications outlined in this brochure.

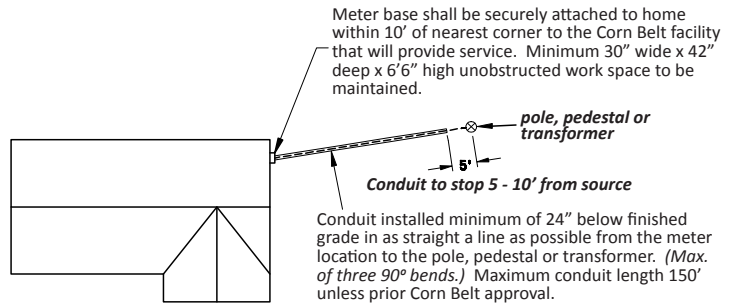
The electric service conduit must be Schedule 40 or greater, grey electrical grade PVC. This conduit shall include a PVC male adapter, lock nut, and insulated bushing at the metering enclosure, and an expansion coupling in the service riser below the metering enclosure.

The service riser conduit shall extend sufficiently below ground line, so as to maintain a minimum depth of 24" for the conduit that will house the service wires. Conduit installation shall continue at that minimum depth of 24" below ground line for the full length of installation. Conduit shall be installed on a firm and uniform supporting base along the shortest route possible on the member's property, minimizing the number of bends.

No more than three 90° bends will be allowed in the conduit installation (see Table A). All sections shall be secured together using standard grade cement.

Conduit installation is not complete unless it has a pull string of a minimum strength of 200 pounds for pulling service wires and the conduit ends are marked and sealed to protect against debris from getting in. Responsibility for the customer installed conduit stops at 5'-10' from the designated Corn Belt equipment that will provide service.

Typical Residential Installation Top view of house



Questions?

Contact Corn Belt Energy's Engineering Department at 1-800-879-0339.

Table A

Service Entrance	Conduit Size	Minimum Bend Radius	Carlton Expansion part # or equivalent
200 amp	2 ½"	24"	E 945 K
200 amp > 150'	3"	36"	E 945 L
320 and 400 amp	4"	48"	E 945 N

Failure to meet conduit installation requirements could potentially delay the service installation and may require the complete relocation of facilities and/or additional cost to the member. Corn Belt shall inspect the conduit installations prior to the conduit being backfilled. Corn Belt will install, own and maintain the underground service wires.