

GENERAL

This guide's purpose is to assist you, our customer-owners, in acquiring electrical service to irrigation facilities quickly, conveniently, and economically. Included here is a summary of the requirements the PUD has incorporated into their Rules and Regulations for Irrigation Services and line extensions.

Service items that are your responsibility are summarized in the following list.

- Advise us of your service requirements before installing electrical equipment, trenches, conduit, and/or service poles, so we may determine the availability, location, and conditions for the service. A representative of our Engineering Department will review with you the location of service, route, and other associated information.
- Complete and return an "Request for Irrigation Service Information" form to help us plan your new electrical service requirements. (See Page 251.1)

This information is important in helping us to plan your service connection. We may require you to use reduced starting voltage or other equivalent measures. Any adjustable speed drives or other equipment with harmonic content should be noted on the "Request for Irrigation Service Information" form. **Check with the PUD Engineering Department prior to purchasing adjustable speed drives.**

- Provide and install all trench, conduit, transformer vaults or pads, backfill, secondary conductors, any required service poles, and all service entrance wiring and equipment.
- Supply and install the necessary meter socket and obtain inspection and approval from the State Electrical Inspector for your service entrance equipment. We supply and install the meter when the new service is connected. We also provide and install current transformers (CT's) when required. Check with our Engineering Department for details.
- Obtain any permits required from city, county and state agencies before excavating on any public lands or rights-of-way, and comply with the requirements of these agencies.
- Provide easements as required. If an easement is necessary, our representative will review this requirement with you in more detail.
- Make a cash payment of line extension fees covering PUD labor, equipment and material costs before PUD construction crews will be scheduled

We offer the following standard service voltages:

- 3 phase, 208Y/120 V.
- 3 phase, 480Y/277 V.
- 1 phase, 120/240 V.

We may provide 3 phase, 240/480 Volt service to 480 Volt circle motor loads when it is available.

We STRONGLY recommend that you install "Phase Failure Protection" on your 3-phase service equipment to protect your pump motors.



IRRIGATION LINE EXTENSION GUIDE

DWN.

DATE:

DWG. NO.

04/01/03

250.1

OVERHEAD LINE EXTENSIONS

Normally an overhead line extension, using pole mounted transformers, is installed for irrigation service.

All line extension costs are borne by the customer. We install distribution poles, conductor and transformers. To avoid any interference with farming activities, we will review the location of our facilities with the property owner or farmer.

You provide service poles and associated service entrance conductors and equipment. We may provide a short overhead service conductor from the distribution pole to your service pole. Your underground service conductor riser conduits may be attached to our distribution pole on standoffs, but other customer service entrance equipment, i.e., meter bases and panels, and disconnect switches are attached to your service pole. This equipment remains your property and maintenance responsibility.

You or your contractor should contact us to review specific service requirements prior to making any field installations.

UNDERGROUND LINE EXTENSIONS

- Normally underground line extensions use direct burial conductor (not in conduit). When a conduit system is necessary for protection from rodents or rock, or if other special conditions exist, we will provide specifications for material and installation.

CALL BEFORE YOU DIG -- 1-800-424-5555

- Transformer Pad/Vault and Cover: Normally, a padmounted transformer is installed on a pad which you have poured in place. We will supply the pad specification after the transformer size is determined.
- For large installations, or where other special conditions exist, we may require a vault with a pad lid instead of the poured in place pad. We will provide specifications after the transformer size and customer service wire size is known. Our Engineering Department must first approve equivalent products.
- Secondary Conductors: Install secondary conductors to the transformer vault/pad location before we install our transformer.

***If you have any questions, please contact our Engineering Department at:
1411 West Clark Street, P.O. Box 2407
Pasco, WA 99302-2407
547-0556 or 1-800-638-7701***