

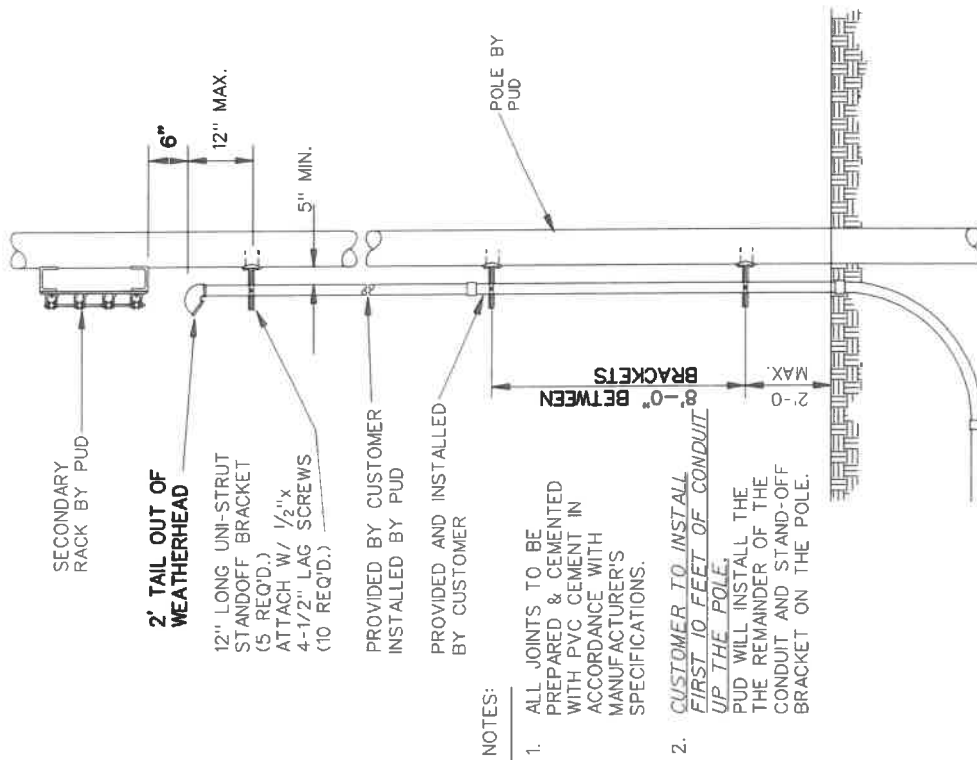
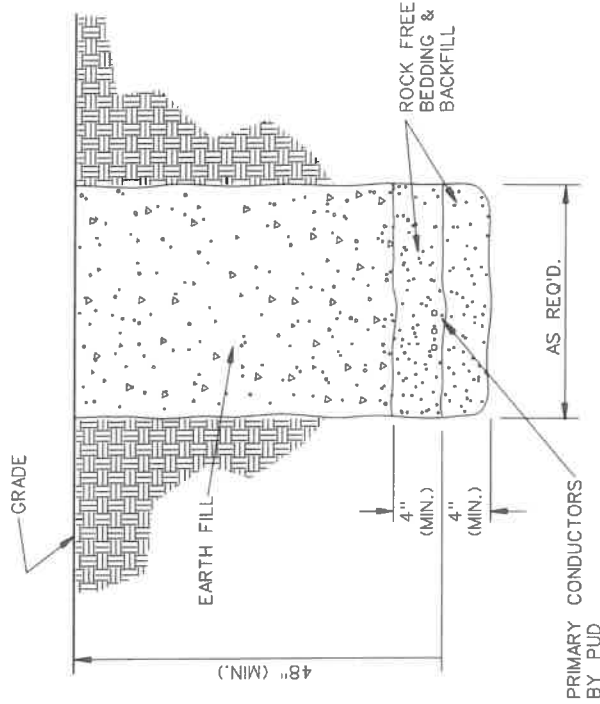
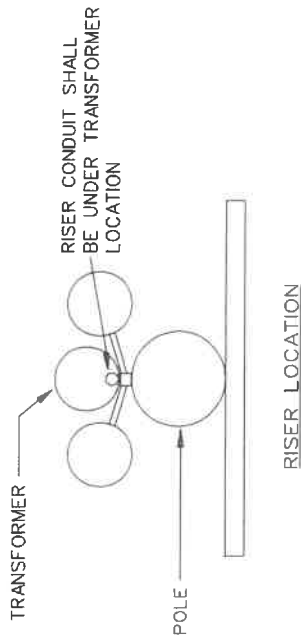
7 – Irrigation Service Requirements

Customer Responsibilities

- Advise us of your service requirements before installing electrical equipment, trenches, conduit, and/or service poles, so FPUD may determine the availability, location, and conditions for the service. An Engineering representative will review with you the location of service, route, and other associated information.
- **Complete and return a "Request for Irrigation Service Information" form to help us plan your new electrical service requirements.**
- This information is important in helping us to plan your service connection. FPUD 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 engineering prior to purchasing adjustable speed drives.**
- Provide and install all trenches, 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. FPUD will supply and install the meter when the new service is connected. FPUD will also provide and install current transformers (CT's) when required. Check with Engineering for details.
- Obtain any permits required from city, county and state agencies before excavating on any public lands or right-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.
- Payment of line extension fees covering FPUD labor, equipment, and material costs before FPUD construction crews will be scheduled.
- FPUD offers the following standard service voltages:
1-phase, 120/240 V 3-phase, 208Y/120 V 3-phase, 480Y/277 V

FPUD may provide 3-phase, 480/240 Volt service to 480 Volt irrigation circle motor load.

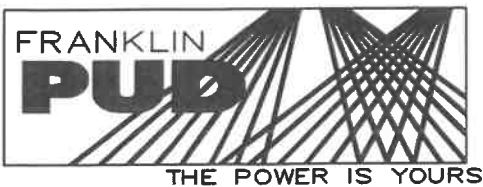
We STRONGLY recommend that you install "Phase Failure Protection" on your 3-phase service equipment to protect your pump motors.



TRENCHING SPECIFICATION
DIRECT BURIAL CONDUCTORS

CUSTOMER SERVICE CONDUCTOR RISER
ON DISTRIBUTION POLE

250.3.DWG



COMMERCIAL/IRRIGATION SERVICE
LINE EXTENSION GUIDE

DWN.
WR
APP. D. SAMS

DATE: 3/31/03
UPDATED: 11/22/2019

DWG. NO.

250.3

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. FPUD will install distribution poles, conductor, and transformers. To avoid any interference with farming activities, FPUD will review the location of our facilities with the property owner or farmer.

The customer shall provide service poles and associated service entrance conductor and equipment. The FPUD 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, panels, and disconnect switches shall not be attached and will be attached to the service pole. This equipment remains customer property and maintenance responsibility.

The customer or contractor representative should contact us to review specific service requirements prior to making any field installations.

Underground Line Extensions

Normally underground primary (high voltage) 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.

- **Transformer Pad/Vault and Cover:** Normally, a pad-mounted transformer is installed on a concrete pad that customer has purchased. FPUD will supply the pad specification after the transformer size is determined.
- **For large installations, or where other special conditions exist, FPUD may require a vault with a pad lid instead of the pad only.** We will provide specifications after the transformer size and customer service wire size is known. Engineering must first approve equivalent products.
- **Secondary Conductors:** Install secondary conductors to the transformer vault/pad location before we install the transformer.