



PRIMARY/SECONDARY UNDERGROUND INSTALLATION (Owned by TECI)

APPROVED CONDUIT TYPES			
Conduit Type	Requirements	Size	Applications
Sch - 40 PVC	UL - Listed electrical grade and GRAY in color	Determined by TECI	Minimum schedule rating for conduit installed underground. Cannot be used above ground.
Sch - 40 Steel	Galvanized electrical grade	Determined by TECI	Suitable for underground use. Optional for conduit exposed above ground.
Polypipe	UL - Listed electrical grade and RED in color	Determined by TECI	Suitable for underground use. Cannot be used above ground.

- All trenches and conduit systems must be inspected by a TECI inspector prior to backfilling. All trenches and conduit systems are to be done by a licensed, bonded, and insured utility contractor qualified to do work in the state of Florida.
- Conduit route must be approved by TECI representatives prior to construction.
- Materials or workmanship deemed noncompliant with these standards by a TECI inspector may be subject to rejection. If required by the inspector, the Member must remove or correct the rejected material and/or workmanship and furnish and install, at the Member's expense, approved material and/or workmanship. If TECI crews are unable to perform work due to obstructions in the conduit system or any customer noncompliance with these specifications, they will leave the job site and work will have to be rescheduled.
- The trench shall be as straight as possible and shall be the shortest direct distance between Member owned facilities and TECI owned facilities. The bottom of all trenches shall be flat, smooth, uniform, and free of any and all rocks, obstructions, sharp objects, buried timbers and pilings, and other debris. The route for the trench must be free of obstructions and accessible to TECI trucks and equipment.
- All secondary service must extend all the way from the Member's meter base to within 3 feet of existing TECI poles, transformers, secondary pedestals, other padmounted equipment, or location to be determined by TECI.
- The conduit must be installed at the bottom of the trench on undisturbed earth with each section glued together. The conduit shall be installed straight from point to point with the maximum number of bends being limited to the equivalent of four (4) ninety degree (90°) bends to include where the conduit is stubbed up. Approved trench tape is required to be installed in the trench 24" above conduit.
- If a TECI representative determines that a pull box or boxes are necessary, the Member will be required to stub the conduit up above ground level at the specified location(s).
- For primary underground extensions, long radius elbows or bends 48" min. are required and the conduit is to be stubbed up 12" above finished grade. For secondary extensions, standard radius elbows and bends shall be 48" minimum. For primary or secondary extensions that exceed 200 feet, galvanized rigid elbows will be required at each end of the conduit run unless otherwise approved by TECI Operations Division. Fiberglass elbows may also be used as an alternative to RSC if approved by TECI Operations prior to scheduled excavation of any construction project.
- The Member will be allowed to horizontal bore on a case by case basis to be determined by an appropriate TECI representative. If allowed to bore, the Member must provide the TECI inspector with a print out from the boring machine showing the depth and route of the bore. Maximum and minimum boring depths are the same as the requirements for trenching.
- Each end of the conduit run must be stubbed up and either capped or taped to prevent mud and/or debris from collecting in the conduit system.
- The contractor is responsible for installing an approved pull string in each run of conduit for use by TECI during the cable installation. The string is to be terminated at the end of each conduit run and capped with appropriate conduit cap.
- It is the responsibility of the Member to ensure that the conduit is installed correctly. Should it be determined by TECI that any portion of the conduit system installation is not correct according to this TECI specification, the prospective Member may be subject to payment of additional expenses incurred by TECI for repair or correction of the conduit system.



**UNDERGROUND CONDUIT
CONSTRUCTION SPECIFICATIONS**

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