January 2016

SPECIFICATIONS FOR PRIMARY UNDERGROUND INSTALLATIONS

The member is responsible for all excavation and backfilling and for providing and installing necessary conduits and related fittings. The cooperative will provide and install all conductors, transformers, switching cabinets and related components. The member shall pay Aid to Construct costs in advance of construction in accordance with current Claverack policy.

TRENCH PREPARATION - BY MEMBER

Trench routing and locations of transformer and switching cabinets will be determined and agreed upon by the cooperative and member **prior** to any excavation work.

Dig trench minimum of 36 inches deep and 12 inches wide below finished grade level. Trench shall be graded true and bottom of trench free of high spots, rock projections, stones and depressions. Fill depressions with selected backfill and tamp thoroughly.

Prepare a 60" by 60" excavation at the site(s) where the pad-type transformer and switching cabinet(s) are to be installed with bottom being 36 inches below finished grade and level. Provide 3" sand base for installation and leveling of transformer / switching cabinet.

PLACING CONDUIT - BY MEMBER

Provide and install 3" Schedule 40 PVC Conduit in prepared trench from pole / pad location designated by the cooperative to new pad-mounted transformer location. 3" schedule 40 PVC sweeps having a 36" radius must be used and installed no more than 6" above grade at the pole(Rigid steel sweeps may be required at the discretion of the Engineering department). Install ¼" minimum nylon pull rope in conduit for installation of primary underground conductor(s) by cooperative. At transformer and switching cabinet locations, install conduit(s) to mid-point of excavation.

BACKFILLING - BY MEMBER

After trench excavation has been completed and conduit placed but **prior** to backfilling, contact the cooperative so we can inspect the trench preparation depth and conduit installation. Once the trench and conduit have been approved by the cooperative, the trench can be backfilled. Place red buried electric cable warning tape in trench approximately 12" below finished grade during backfilling.

Unfrozen selected backfill shall be placed by shovel at the sides of conduit and tamped lightly. Place 6 inches of unfrozen selected backfill, free of rocks, stones, organic material or debris over the conduit and tamp lightly in rock areas.

Backfilling may be completed by any conventional means – tamping as required. The primary underground **will not** be energized until all backfilling is completed.

Telephone and other communication cables may be installed in the trench; communication cables must be installed a minimum of 12 inches above the electric conduit.