

Mandreling and Cleaning of Ducts and Conduits

1. After the concrete has been poured or the trench backfilled over conduit, each duct run and conduit shall be tested for obstructions or flattening by hand-pulling a proofing mandrel sized and constructed per Seattle City Light (SCL) Material Standard 7645.40 through the duct or conduit within 5 days of installation.

If an obstruction is found in a duct or conduit, that section shall be replaced.

An SCL Electrical Reviewer shall supply the mandrel and oversee and approve the testing.

2. Cleaning ducts shall be performed by drawing a brush with stiff bristles and a swab through each duct and conduit to make certain no foreign materials are left in the duct.
3. Conduit runs of 5 inches or larger shall be flushed with a water jet type system such as the "Jet Rodder" equipment. Completion subject to the SCL Electrical Reviewer's approval.

4. After cleaning and mandreling, each conduit shall have left in it a flat, pre-lubricated, polyester or Aramid pull tape of 2,500 lb. minimum tensile strength (Fibertek Inc. or equal; SCL Stock Nos. 012293 and 012480).

The pull tape shall be printed with sequential footage markings. 5 feet of slack shall be left in each handhole. 10 feet of slack shall be left in each vault and at each pole riser conduit.

5. After cleaning and mandreling, each conduit shall be plugged with plugs of the type and manufacturer specified in SCL Material Standard 7055.09.

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