



# The TOWN OF NORWOOD

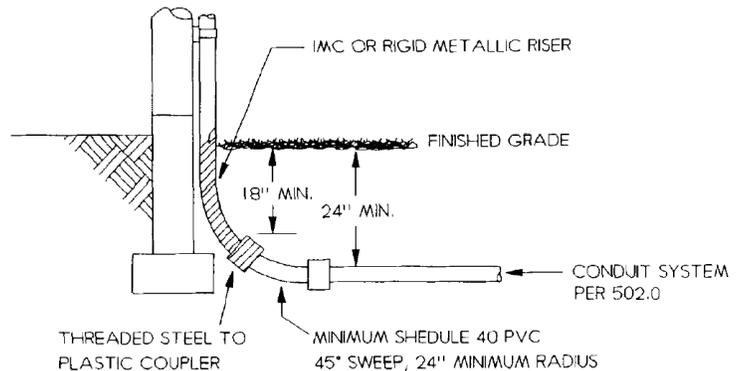
Commonwealth of Massachusetts

## MUNICIPAL LIGHT DEPARTMENT

Kevin Shaughnessy, Supt.  
(781) 948-1100

### TRANSFORMER PAD SPECIFICATIONS

1. Pad to be a minimum of 20ft. from all doors and windows.
2. Contractor to provide 3" 3000lb. concrete envelope on all non-steel raceways. All conduits must be supported on trays at spacings not to exceed 7 feet and must be securely fastened to supports.
3. Pad to be reinforced with 3/4" rod both ways 12" on center, 8" from base of concrete. This reinforcement grid shall be bonded to the ground grid.
4. Grounding of pad to be 4/0 cu. bare, as required by Norwood Light Department.
5. Must have two (2) primary conduits that shall be 5" in diameter.
6. Depth of primary to be minimum of 36".
7. Primary and secondary sweeps into pad to be steel.
8. Primary conduit to be extended 30' up pole (10' steel, 20' schedule 40 PVC and fittings to be supplied by contractor).
9. All sweeps and adjacent conduit at riser pole to be steel as shown below. Transitions from steel to other types of conduit may be made at the shaded areas.
10. Pulling compounds are limited to types approved by manufacturer American Poly Wire or Ideal Wire Loop.
11. Prior to installation, contractor to provide secondary crimp tool and lugs, to be approved by Norwood Light Department.
12. All ground connections to be cadwelded or ampac connections.
13. All ground wires to be buried a minimum of 24".
14. There is to be 18" of crushed pea stone beneath pad.
15. Pad to be 8" above grade.
16. Pad to be inspected by Norwood Light Department prior to pouring, with a minimum of 24 hours notice prior to inspection.
17. Ground rods must be 10 feet by 3/4 inch.





## SECONDARY PADMOUNTED

### SERVICE SPECIFICATIONS

1. Primary cable to be 15 kV phase to phase, 1/0 copper, 19 strand, EPR, full concentric neutral consisting of 16 - #12 AWG copper conductors. The cable shall have a Stress Control Layer (SCL) with minimum average thickness of 18 mils. The SCL shall be easily removable from the conductor and be of a contrasting color compared to that of the insulation. The cable shall have 133% insulation (220 mils), an insulation shield (40 mils), and an overall jacket (50 mils) of black polyethylene (PE). The BIL rating shall be 110 kV. Both ends of each length of cable shall be completely sealed to prevent water entry. The manufacturer shall high potential test the cable before shipment. There shall be a Test Voltage applied for five minutes at 47 kV AC and 94 kV DC, (AIEC CS6-87, Section L.1.2). After the cable has been properly terminated, a high voltage DC acceptance test shall be performed at 55 kV for fifteen consecutive minutes.  
  
Cable shall be: Okonite # 141-23-3072 or Kerite # 111C15-C1200 Single Conductor, 15 kV, SPS, Solid Dielectric, Full Concentric Neutral Shielded, Insulating Jacketed Distribution / Power Cable.
2. Pulling compounds are limited to types approved by cable manufacturer.
3. The contractor is to install primary cable. The contractor shall also provide for an acceptance test after the cable has been properly terminated. The high voltage DC acceptance test is to be performed at 55kV for fifteen consecutive minutes (see primary cable specification for details).
4. Norwood Light Department will terminate primary cable at transformer and at pole.
5. Current transformers and metering cabinet are to be picked up by contractor at Norwood Light Department.
6. Current transformers are to be installed before secondary connections are made.
7. Secondary metering cabinet to be mounted by contractor on outside of transformer and 1-1/4" nipple to be drilled by contractor for metering cabinet.
8. Secondary connections to be a 2-bolt NEMA style Hypress lug to be approved by Norwood Light Department.