

ITEM 11206.030606 M - 2 NPS CONDUIT UNDER NEW ROADWAY SECTION

DESCRIPTION:

This work shall consist of furnishing and installing conduits under new roadway pavement as shown on the plans and as directed by the Engineer.

MATERIALS:

Schedule 80 extra heavy wall PVC conduit shall be in accordance with subsection 723-19, Rigid Plastic Conduit of the standard NYSDOT specifications.

Schedule 80 extra heavy wall PVC conduit shall comply with NEMA type TC-2, Federal Specifications WC1904A , Underwriters Laboratories UL 651 and the National Electrical Code Article 347.

Fittings for schedule 80 extra heavy wall PVC conduit shall comply with NEMA type TC-3, Federal Specifications WC1904A , Underwriters Laboratories UL 514 and the National Electrical Code Article 347.

All conduit and fittings shall be solvent cemented in accordance with the manufacturer's instructions and comply with ASTM D2564

CONSTRUCTION DETAILS:

Conduits shall be installed at a depth of 305mm into the compacted sub grade surface as detailed on the contract plans and as required by the National Electrical Code table 300-5. Conduit installation shall be coordinated with the paving operation. The sub grade shall be compacted before the conduit is installed. Backfilling and compaction shall be to the original requirements. Conduit fittings other than couplings shall not be used under the roadway surface.

Subsequent to the completion of the roadway pavement, a test shall be conducted to verify that the conduit is still functional. This test shall be cleaned by passing a ball through the conduit system. Subsequently,

a conduit detection system shall be installed in all sections of the installed conduit. The system shall consist of a locator wire installed in the underground sections of PVC conduit. Separate runs of wire shall be installed between each pull-box. The locator wire shall be 2 conductor traffic signal cable, 14 gauge. After the locator wire is installed, a test shall be conducted to verify conductivity between the pull-boxes. Subsequent to installation of the pull-wire, the ends of the conduits in the pull-boxes shall be sealed according to standard procedures.

METHOD OF MEASUREMENT:

Install 2 NPS conduit under new roadway section will be measured by the number of meters of conduit actually installed and tested in accordance with the Contract Documents and as directed by the Engineer.

BASIS OF PAYMENT:

The unit price bid per meter shall include the cost of furnishing all labor, materials, and equipment, including excavation, backfill, compaction necessary to complete the work as detailed in the contract documents.