

ITEM 022120

Item 0221215 - 1/12" PVC CONDUIT IN TRENCH

Item 0221220 - 2" PVC CONDUIT IN TRENCH

Item 0221225 - 2-1/2" PVC CONDUIT IN TRENCH

Item 0221230 - 3" PVC CONDUIT IN TRENCH

Item 0221235 - 3-1/2" PVC CONDUIT IN TRENCH

Item 0221240 - 4" PVC CONDUIT IN TRENCH

DESCRIPTION

This item shall include the installation of new conduit or restoration of existing conduit that carries electrical or signal wire service to City owned street light pole or traffic signals. Work under this item shall consist of trenching, backfilling and disposal of surplus excavated material which is necessary for the installation or restoration conduit. It shall also include grading and placement of topsoil, seeding, and the removal of bituminous material or sidewalk as required to complete work.

REFERENCED ITEMS

Items 0102201, 0102401.

REQUIRED SUBMITTALS

Material Certificate of Compliance:

Submit 5 copies of material certificate of compliance for PVC conduit in accordance with the contract general requirements.

Certified Test Report:

Submit 5 copies of certified test reports for PVC conduit in accordance with the contract general requirements.

MATERIALS

PVC conduit shall meet the material requirements of Article M.15.09 of The State of Connecticut, Department of Transportation, Standard Specification for Roads Bridges and Incidental Construction, Form 816, 2004.

CONSTRUCTION METHODS

The polyvinyl chloride (PVC) conduit(s), of the size(s) specified, shall be installed in the locations and to the dimensions shown on the plans or as directed by the Engineer. All conduits run shall be installed in a neat an workmanlike manner in accordance

with recognized trade practices. Trenches shall be of the depth a cross section as shown on the plan. 95 to 100 per cent of sand utilized for bedding shall pass No. 4 square mesh sieve. There shall be at least 4 inches of sand cushion placed around the conduit.

Upon removal of damage conduit, the two existing conduit ends shall be reamed to remove rough edges. The two existing unconnected conduit shall be cleaned by either rodding or high pressure jet stream to ensure that all debris is removed.

All conduits shall be installed in strict accordance with the current National Electrical Code. All backfill shall be of approved material and shall be placed in not more than 6" lifts after compaction and shall be thoroughly compacted by means approved by the Engineer. There shall be no stone larger than 2" in diameter around the conduit or in the trench.

The backfill shall be brought to the surface of the surrounding ground and neatly graded, except where excavation is required in existing grass areas, the backfill shall be brought to within 4 inches of the top of the trench; and the remainder shall be filled with topsoil of ¾ of an inch above adjacent areas as directed by the Engineer. Where trenching in sidewalk or paved areas, the trench shall be backfilled to within the depth from the surface required to replace the removed sidewalk or pavement structure, which shall then be replaced.

When sidewalk or bituminous material is removed within the trenching limits these items shall be paid for under Item 0102201 "5" Concrete Walk on New Foundation" or Item 0102401 "New 2" Bituminous Concrete Surface on New Foundation".

METHOD OF MEASUREMENT

This work will be measured for payment by the actual number of linear feet of PVC conduit in trench installed complete and accepted.

BASIS OF PAYMENT

This work will be paid for at the contract unit price per linear foot for "(SIZE) PVC CONDUIT IN TRENCH". This price shall include all material required including expansion fittings, conduit fittings, caps, boxes, inserts, backfill, equipment tools, labor and incidental expenses thereto.

<u>PAY ITEM</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
0221215	1-1/2" P.V.C. Conduit in Trench	LF
0221220	2" P.V.C. Conduit in Trench	LF
0221225	2-1/2" P.V.C. Conduit in Trench	LF
0221230	3" P.V.C. Conduit in Trench	LF

0221235
0221240

3-1/2" P.V.C. Conduit in Trench
4" P.V.C. Conduit in Trench

LF
LF