

**ITEM 022110**

**Item 0221115 - 1-1/2" PVC CONDUIT IN ROADWAY**

**Item 0221120 - 2" PVC CONDUIT IN ROADWAY**

**Item 0221125 - 2-1/2" PVC CONDUIT IN ROADWAY**

**Item 0221130 - 3" PVC CONDUIT IN ROADWAY**

**Item 0221135 - 3-1/2" PVC CONDUIT IN ROADWAY**

**Item 0221140 - 4" PVC CONDUIT IN ROADWAY**

**DESCRIPTON**

This item shall include the installation of new conduit or restoration of existing conduit that carries electrical wiring or ground wire to City owned street light poles or traffic signals. Work under this item shall consist of trenching, backfilling, disposal of surplus excavated material which is necessary for the installation or restoration of conduit. It shall include the removal of roadway materials and the restoration of the roadway to its original condition.

**REFERENCED ITEMS**

None

**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 conduit runs shall be installed in a neat and workmanlike manner in accordance with recognized trade practices. Trenches shall be to the depth and

cross-section shown on the plans. 95-100% of the sand utilized for bedding shall pass #4 square mesh sieve. There shall be at least 4" of sand cushion placed around the conduit under roadway.

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

All conduits shall have a 24" minimum cover and 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.

Where trenching in paved areas, the trench shall be backfilled to within the depth from the surface required to replace the pavement structure, the edge of the pavement shall be cut on a neat line 12" beyond the trench for concrete material and 6" beyond the edge of trench for bituminous concrete material. The Contractor shall replace the concrete base material to its original depth and thickness below the roadway surface. Temporary surface restoration shall conform to the requirements of Section C-6 of the Hartford Specifications. In addition, concrete base and bituminous concrete shall conform to the requirements of Section B-2, while Processed Trap Rock shall conform to the requirements of Section B-4 of the Hartford Specifications.

**METHOD OF MEASUREMENT**

This work will be measured for payment by the actual number of linear feet of PVC conduit in Roadway 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 ROADWAY" which price shall include all materials, conduit fittings, caps, boxes, inserts, backfill, equipment tools, labor and incidental expenses thereto.

<b><u>PAY ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>PAY UNIT</u></b>
0221115	1-1/2" PVC Conduit in Roadway	LF
0221120	2" PVC Conduit in Roadway	LF
0221125	2-1/2" PVC Conduit in Roadway	LF
0221130	3" PVC Conduit in Roadway	LF
0221135	4-1/2" PVC Conduit in Roadway	LF
0221140	4" PVC Conduit in Roadway	LF