

ITEM 0222401

CLEAN EXISTING CONDUIT

DESCRIPTION

The work under the item shall consist of cleaning existing City-owned and SBC conduit or replacing City-owned and SBC as required to install new communications cable.

REFERENCED ITEMS

Items 022090, 026220.

REQUIRED SUBMITTALS

None

MATERIALS

None

CONSTRUCTION METHODS

The Contractor shall attempt to snake all conduit runs prior to commencing any cable installation. Upon completion of this process, if any conduit run is found impassable, the Contractor shall clean the obstruction from the conduit. This cleaning process shall be by one of the following methods: rodding, a high-pressure jet-stream, or by pulling a mandrel or ball through the conduit.

The Contractor shall submit in writing his anticipated method of cleaning the conduit to the Engineer for approval prior to cleaning any conduit.

If the contractor is hiring a specialized conduit cleaning contractor, they shall be approved by the project Engineer. Prior to cleaning the conduit, the Contractor shall remove the existing cable as may be required. Removal of fire alarm cable is not permitted nor authorized without the approval of the Hartford Fire Department.

After cleaning a conduit run, the Contractor shall reinstall the existing control cable if, in the opinion of the Engineer, the existing cable is in good condition, plus the required communications and lead-in cables for that particular run. Should the cable be found faulty or in poor condition, the Contractor shall remove the old cable and install new cable of the same size and number of conductors to replace the defective cable in accordance with specification Item 026220. Should the conduit, in the opinion of the

Engineer, be impassable or defective the Contractor shall install new conduit of the same size and type to replace the impassable or defective conduit in accordance with specification Item 022090. This work if required as determined by the engineer will be paid for at the established contract unit costs.

Splicing of existing signal control cables in hand holes or poles can be accomplished by one of the following methods:

Splices can be made by soldering with the pouring or dipping method.

Insulated pressure type connectors or approved equal. Conductor insulation shall be well penciled, trimmed to conical shape, and roughened before applying splice insulation. Splice insulation shall consist of layers of thermoplastic electrical insulating type not over 0.007 inches thick, conforming to MIL-7798, applied to a thickness equal to and well lapped over the original insulation. The splice shall then be covered with at least two layers of asphaltic, impregnated, open mesh fabric tape and a coating of high grade insulating paint or similar material. At least one foot of slack shall be left for each conductor at each splice.

Splicing of new communications cable and/or detector lead-in cable is not allowed.

METHOD OF MEASUREMENT

This work shall be measured for payment on an hourly basis.

BASIS OF PAYMENT

The work under the Item "CLEANING EXISTING CONDUIT" shall be paid for at the contract unit price per hourly basis, which price shall include all cleaning, materials, tools, equipment, any contractor's personnel assisting the specialized cleaning company if hired by the contractor, all labor, and work incidental thereto. Removal and reinstallation of existing cable shall be incidental to cleaning the existing conduit.

New communications cable, detector lead-in cable and conduit shall be paid for separately under the appropriate items.

<u>PAY ITEM</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
0222401	Clean Existing Conduit	HR