

**PORTSMOUTH TO KITTERY
16189B**

September 18, 2020

SPECIAL PROVISION

AMENDMENT TO SECTION 614 – ELECTRICAL CONDUIT

Item 614.0438 – 3-Cell Fabric Innerduct for 4” Conduit

Add after 1.1:

1.1.1 When the work includes fabric innerducts to be installed into existing conduits, the work shall include installation of 3-Cell Fabric Innerducts into the conduit at the locations indicated on the Plans, all in accordance with these Specifications.

1.1.2 When the work includes plastic innerducts to be installed into existing conduits, the work shall include installation of three 1-inch diameter high density polyethylene conduits at the locations indicated on the Plans, all in accordance with these Specifications.

Add to Materials:

2.9 Where specified, each duct shall be equipped with a three-cell (3-cell) fabric innerduct suitable for installation in a 4-inch conduit providing at least three compartments for isolating installed cables. The fabric innerducts shall be supplied with factory installed pull tapes in each cell (no rope will be allowed) with a maximum tensile strength of 1130 pounds. The length of the pull tape shall exceed the length of the duct by a minimum of 3 percent. Each of the three pull tapes in any duct shall be of a different color or have unique identifying markings for cable installation.

2.9.1 The fabric innerduct shall be pre-lubricated during the manufacturing process.

2.9.2 The fabric innerduct shall incorporate an integrated wire for detection by standard utility toning equipment. The detectable wire shall not be free-floating within one of the fabric cells and shall be isolated from any installed cables.

2.10 Where plastic innerducts is specified, each duct shall be equipped with three ducts of 1.0-inch plastic conduit manufactured from high-density polyethylene (HDPE) in accordance with Special Provision 614.74221, with the exception that the innerducts for independent installation may be corrugated.

Add to Construction Methods:

Commented [BP1]: Include this?

Commented [SM2R1]: Yes, for now.

3.8 The fabric innerducts shall be installed into existing conduits by pulling or air pressure. If innerducts are pulled into existing conduits, the pulling tension shall not exceed 90% of the manufacturer’s recommended maximum pulling tension. Installation shall be as directed by the manufacturer, including use of any manufacturer-required tools.

3.9 Fabric innerducts shall be installed in continuous lengths. Splicing of innerducts shall not be permitted.

3.10 Fabric innerducts shall be installed such that at least two feet but not more than three feet of the fabric innerduct extends into the terminal pull box or splice vault.

3.11 Construction of HDPE innerducts shall be in accordance with Special Provision 614.74221.

Add to Method of Measurement:

4.1.2 3-Cell Fabric Innerduct for 4-Inch Conduit will be measured by the linear foot of conduit into which the innerduct is installed plus up to three feet of slack innerduct in each terminal pull box or splice vault.

Modify 5.1 to read:

5.1 The accepted quantities of 3-Cell Fabric Innerduct for 4-Inch Conduit will be paid for at the contract unit price per linear foot (linear meter) complete in place, including pull tapes and trace wire. The price shall also include all materials, tools, equipment, labor, and incidentals. The following shall be excepted: [continued in Section 614.5]

Pay Items and Units (ENGLISH)

614.0438	3-Cell Fabric Innerduct for 4-Inch Conduit	Linear Foot
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