

ITEM 670.8888--25 - RELOCATING EXISTING FIBER OPTIC LINE – (SUBSURFACE INSTALLATION ONLY)

1. DESCRIPTION:

- 1.01 The work shall consist of relocating an existing fiber optic line as shown on the plans or as directed by the Engineer. This work shall include all necessary excavation to expose both the existing lines and their new proposed location. In addition, this work shall include backfilling and all the necessary work to restore the existing surface locations to match the existing conditions.
- 1.02 The work shall also consist of protecting the adjacent fiber optic line, which is not to be relocated. The fiber optic line shall be maintained with additional material (the same as existing material) and approved by AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT if necessary to enable proper communication signals to pass through the line continuously without breaks in the communication signal.
- 1.03 The fiber optic line must be relocated before any adjacent demolition or restoration work takes place as ordered by the Engineer and shown on the plans. No adjacent infrastructure work will be allowed until the relocation work has been completed to the Engineer's satisfaction and approval.

2. MATERIALS:

- 2.01 The material used for the fiber optic line relocation work shall be the same quality and make as the existing fiber optic material. This shall include, but not be limited to, conduit, necessary replacement fiber cable, and other material as identified by AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT.

If additional material is required, the Contractor shall supply AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT with two (2) copies of the manufacturer's certification that the material meets requirements.

- 2.02 **Testing Equipment:** Prior to relocating the fiber optic line, the Contractor shall coordinate the details of the relocation with AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT, who will supply the Thruway a written statement about the present condition of the optical traffic for that segment of the fiber optic infrastructure. The Contractor shall inform AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT at least one hundred eighty days (180) days in advance of their intent to move the line and shall include one hundred twenty (120) days for the abandonment of the existing fiber line(s) & installation and activation of the proposed fiber lines by AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT.
- 2.03 Suitable backfill, seeding, topsoil, and other surface conditions shall be placed to restore the area to its original configuration as specified by the Engineer or on the plans.

3. CONSTRUCTION DETAILS:

- 3.01 The Contractor shall coordinate all work with Authority and get their approval for equipment to be used for relocating the fiber optic line.
- 3.02 If necessary, prior to locating any existing line the Contractor shall contact the Authority Information Technology Department in accordance with NYS Standard Specifications and pursuant to 16 NYCRR 753, Protection of Underground Facilities. The Contractor shall dig test pits by hand to ascertain the exact location of the existing fiber optic line, using extreme care to not damage the fiber optic line

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- 3.03 The Contractor shall get the approval of the Engineer and AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT for the final proposed location of the fiber optic line.
- 3.04 It shall be the Contractor's responsibility to protect the fiber optic line and to ensure that there are no interruptions of service during the relocation operations. The Contractor shall be financially responsible for any shutdowns or interruptions of the fiber optic line caused by his relocating operations, at no additional cost to the Authority or G4S.
- 3.05 The fiber optic line shall be moved with care and diligence (by hand) to insure that the fibers are not over-stretched or have reduced signal capacity. In addition, no splicing or other disconnecting options will be allowed without written approval of AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT.
- 3.06 Unless otherwise specified in the Contract Documents, the minimum depth of the fiber optic line shall be [REDACTED] from top of proposed finish grade and in accordance with the Contract Documents.
- 3.07 **Testing:** Once relocated, Utility Owner will supply the Thruway a written statement about the present condition of the optical traffic for that segment of the fiber optic infrastructure. The written statement will include, if applicable, ADESTA's determination if the relocation impacted the original condition of the fiber optic infrastructure. If the relocation impacted the original condition of the fiber optic infrastructure, the Contractor shall perform remedial work as necessary and as approved by AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT and the Engineer, to satisfy the initial fiber optic capacity of the fiber optic line."
- 3.08 **Repairs:** If the Contractor damages the fiber optic lines as a result of his relocation operations in the limits specified by the Engineer, he shall repair them in a manner satisfactory to ADESTA Communications to insure the original capacity of the relocated fiber optic line. Such repairs shall be done at the expense of the Contractor. There shall be no additional payment for any repair work. Timeliness of the repair work is of utmost significance.
- AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT may elect to perform the repair work, the cost of which shall be borne by the Contractor at no cost to the Authority.
- 3.09 **Disruptions:** If the line is disrupted for any reason during the work, the Contractor shall notify AUTHORITY INFORMATION TECHNOLOGY DEPARTMENT and the Engineer immediately. In addition, the Contractor shall provide staff and support to repair the work immediately under the directions of ADESTA Communications, as approved by the Engineer. This work shall be performed at the Contractor's expense at no cost to the Authority.

4. METHOD OF MEASUREMENT:

- 4.01 Measurement will consist of the amount of linear feet of fiber optic lines relocated to the new proposed location. A fiber optic line is defined as a duct bank located in a trench, regardless of the amount of conduits in the duct bank. Measurement will be made along the centerline of the proposed alignment of the fiber optic line.

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BASIS OF PAYMENT:

- 5.01 The unit price bid per linear feet shall include the cost of all labor, materials, excavation, backfill test pits temporary shoring and equipment necessary to complete the work as prescribed in these specifications to the satisfaction of the Engineer.