

ITEM 10615.24 M - RELOCATION OF SECURITY BOOTH

DESCRIPTION:

This work shall consist of moving (relocating) the security booth identified in the contract documents to a new location, as shown in the contract documents. The work shall also include:

- ▶ All work, excavation, backfill, conduit (furnish and install), and cable (furnish and install) associated with providing relocated telephone service in the booth;
- ▶ Stub-ups at the booth from roadside junction boxes;
- ▶ Termination of cables for main power, two electric gate connections, one light pole connection, and one holiday lighting connection;
- ▶ Excavation, backfill, and conduit (furnish and install) necessary for maintaining power at an existing light pole;
- ▶ Excavation, backfill, and conduit (furnish and install) necessary for maintaining power at an existing box for holiday lighting;
- ▶ Furnishing and installation of a new panelboard, including circuit breakers, and re-establishment of all electrical services within the booth;
- ▶ The construction of a new concrete pad.

Removal of the existing concrete pad and restoration will be paid under other items.

MATERIALS:

DISAPPROVED
BY EI 12-001

The materials shall meet the requirements specified in the following subsections of the Standard Specifications:

Concrete	Portland Cement Concrete Class A, Section 501-2
Non-Metallic PVC Conduit	Schedule 40, Section 723-19

Other material requirements shall be:

Electrical panelboard	120/208v one phase, 3 wire, solid neutral, 100 ampere mains, 60 ampere, 2 pole main thermal magnetic circuit breaker, four (4) 1-pole 20 ampere circuit breakers, three (3) 2 pole 20 amperes circuit breakers and one (1) 2-pole 30 ampere circuit breaker, NEMA Type 1 Enclosure with a hinged front cover.
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Caulking	Silicone joint sealant shall be accepted on the basis of the brand name labeled on the container and appearing on the Department's Approved List, under "Silicone Joint Sealants"
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Ground Rod	3-meter long, 19mm diameter, copper weld rod with bronze cable clamp.
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new wires in the panelboard, including the main power, two electrical gate connections, one light pole connection and one holiday light connection. The Contractor shall reconnect cables from electrical devices within the booth to the new panelboard and re-establish power to these devices/outlets. The Contractor shall furnish and install a new panelboard ground rod adjacent to the pad and run #6 AWG copper wire from the panelboard to the rod.

The work shall include any ancillary operations not specified here or covered under other items but required to properly relocate the security booth, establish new electrical and telephone service, provide power to two electric fence gates, retain power at a light pole and a box for holiday lighting, and remove and dispose or abandon any duct and wires no longer needed. Removal and disposal of the existing concrete pad and restoration of the area will be paid under the appropriate items.

All electrical installations and necessary testing shall conform to EEI, NEMA, ANSI, and ASTM standards. In addition, workmanship shall conform to the latest requirements of the National Electric Code; the rules of the New York State Public Service Commission; local power company requirements and any local ordinances which may apply.

All conduit excavation and backfill shall meet the requirements of Subsection 206-3 of the Standard Specifications.

The approval of the relocation is dependent on the Engineer's final inspection of the overall booth, including but not limited to the proper functioning of the electrical/telephone contents, the booth's stability, that its installed level, that the doors and window work in a manner similar to before the relocation, and that the baseboard area has been fully reconstructed in a neat and workmanlike manner.

METHOD OF MEASUREMENT:

This work will be paid on a lump sum basis.

BASIS OF PAYMENT:

Payment will be made after all work is completed and accepted by the Engineer. The lump sum shall include the cost of all work required to: properly relocate the booth from its existing location to its new location; attach the booth to the new concrete base; remove electrical and telephone service from the existing booth and establish it in the new booth; construct the concrete pad; remove the existing panelboard; install new panelboard; provide conduit to an existing light pole and box for holiday lighting; and any ancillary work associated with properly relocating the booth and its facilities. The lump sum bid shall include the cost of all labor, materials, and equipment necessary to properly complete the work to the satisfaction of the Engineer.