

## **ITEM 01202.02 M - RELOCATE RESTORED COVERED BRIDGE**

### **DESCRIPTION:**

Due to the specialized nature of the relocation of the historic covered bridge in this Contract, as a condition of award, the bidder (or bidder's subcontractor responsible for this work) must demonstrate that they have successfully completed the following types of projects within the past 10 years:

- The relocation of at least five restored covered bridges or other historic structures of similar magnitude and complexity to the proposed project where the structure was relocated as a complete unit.
- The removal or installation of at least two (2) vehicular bridge structures over waterways wherein the bridge was relocated as a complete unit.

The bidder must include in his bid package pertinent information regarding the previously completed project experience required above as follows:

- A brief description of the project including project purpose, structure type, structure size/weight and relocation method.
- Date of project completion.
- The name of the owner, a contact person representing the owner, and current telephone number so that references can be verified.

The Department reserves the right to reject the bidder's proposed subcontractor should they not meet the experience requirements listed herein. In this event, the bidder shall identify an alternative subcontractor and submit for approval prior to award of the contract.

The provisions of Section 202 shall apply except as amended herein. The term "covered bridge" shall be substituted for the term "building" as referred to in Section 202.

**MATERIALS:** (Not specified)

### **CONSTRUCTION DETAILS:**

The provisions of Section 202-3 shall apply including, but not limited to, Section 202-3.03.

During the entire relocation process, the Contractor shall ensure that the bridge is not loaded in any manner that may result in twisting, abnormal deflection, or reversal of the direction of force in any member or its connections. Prior to relocating the covered bridge, the Contractor shall design and submit a Relocation Plan to the Engineer for review that describes with drawings and calculations the proposed method for relocating the restored covered bridge from the temporary, stored location to the permanent bridge foundations as indicated on the contract plans. All drawings and calculations submitted shall be prepared, stamped and signed by a New York State licensed Professional Engineer, retained by the Contractor.

The Relocation Plan shall follow all requirements of the "engineering survey" as described in Section 202-3.01 in addition to the following: The Relocation Plan shall depict the path of relocation with all obstacles clearly marked on plan with a description of proposed method of temporary removal and reinstallation of obstacles. Calculations shall be provided to indicate the weight of the bridge during relocation, the capacity and location of rollers, and the proposed hauling points and the equipment to be utilized for relocating the bridge. Calculations and drawings shall include the temporary structure required to support the bridge as it is relocated over the waterway and until it is seated on the permanent foundations. (The Contractor may utilize the existing concrete piers and superstructure with required supplementation, if desired, but must demonstrate that the existing materials, structures, and any new members are adequate for the project requirements). The Contractor shall provide temporary bracing and supports for the bridge as required for additional stability while relocating the bridge and shall indicate such bracing on the Relocation Plan.

The Contractor shall provide required stream protection for work over or in the waterway and shall indicate the proposed methods on the Relocation Plan.

The covered bridge shall be monitored for adverse impact during the relocation processes as outlined in Section 203-3.01. The Contractor shall provide padding, blocking and other means as may be necessary to protect existing bridge members from direct contact with temporary relocation members. Indicate the proposed methods for these items on the Relocation Plan.

The design drawings of the restoration of the covered bridge are available for inspection and use in bidding and to produce drawings and calculations for the design of the relocation of the covered bridge. See Specification Section 00100 Information For Bidders.

After the bridge is properly seated in its final position, The Contractor shall remove all temporary members, rollers, bracing, protection items and all other systems utilized for the covered bridge relocation. The Contractor shall complete a final survey of the bridge when seated in its final position to observe and repair all portions of the bridge that may have been damaged and to determine the dead load camber of the installed structure. The Contractor shall tighten any connections, diagonals or tie rods that may have become loose during the relocation process.

The Contractor shall remove the existing temporary bridge foundation in accordance with the drawings. The existing "Jersey barrier" foundations shall be salvaged, transported and delivered to the Owner, The Essex County Department of Public Works at a location as determined by the Owner at their Lewis, New York facility.

**METHOD OF MEASUREMENT:**

The provisions of Section 202-4.01 shall apply.

**BASIS OF PAYMENT:**

The provisions of Section 202-5.03 shall apply.

***Payment will be made under:***

<b>Item No.</b>	<b>Item</b>	<b>Pay Unit</b>
-----------------	-------------	-----------------

DISAPPROVED EI 16-007