

ITEM 11564.3001 M TEMPORARY SUPPORT SYSTEM
ITEM 11564.3002 M TEMPORARY SUPPORT SYSTEM

DESCRIPTION:

This work shall consist of furnishing, installing, maintaining and removing the complete system necessary to support the new bridge and the existing bridge during structure construction and during the roll-in, roll-out operation. Also included are the horizontal and vertical jacking operation as well as all rolling materials and systems, monitoring systems and all other appurtenances necessary for the completion of the roll-in, roll-out operation. The system shall include all locations as shown on the contract plans.

MATERIALS:

Specification

High Strength Bolts, Nuts and Washers A325M	715-14 M
Structural Steel A-572, Grade 345 & A36M	715-01 M

Stock Steel is acceptable under provisions of Section 564-2.01 of the Standard Specification.

Jacks, rollers, monitors, hydraulic units, control units, actuators and other systems shall be submitted to the Engineer for approval prior to installation.

CONSTRUCTION DETAILS:

A. Working Drawings

The contractor shall submit Working drawings and calculations stamped and signed by an Engineer currently registered in the State of New York for the Engineer's review and approval. The design and construction of the temporary support system shall be in accordance with Division II Section 3 Temporary Works of the AASHTO specifications. The Working drawings and calculations shall detail all work to be done under this item. Working drawings for this item shall be submitted within 21 calendar days after the award of the contract.

The Working drawings shall show:

All welds and connections.

Details of installation of the system including a time schedule of operations.

All temporary foundations, towers, bents and other details necessary for the erection and bracing of all support systems.

The size and type of the Working drawings shall be as specified in the New York State Steel Construction Manual.

When the Working drawings are completed as specified, the Contractor shall submit five (5) sets of prints to the Deputy Chief Engineer (Structures) who will review and indicate thereon any corrections deemed necessary by the State.

The D.C.E.S. shall be allowed eight weeks after receipt of all pertinent information for the examination of the Working drawings for this item. If the Working drawings are detained for a period of time longer than eight weeks, the detention will be taken into account when considering application by the Contractor for an extension of time for the

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completion of the contract. No other form of compensation will be considered.

The DCES comments shall be indicated on the returned copies. Should the proposed system not be approved, the reasons shall be indicated with the return of the material. The Contractor shall then submit revised drawings for approval subject to the same terms as the first submission. Resubmission shall not be considered a legitimate reason to request an extension of time under 108-04.

The Contractor shall carry out the construction in strict accordance with the approved Working drawings and shall make no further changes therein except with the written approval of the D.C.E.S.

Approval of the Working drawings by the D.C.E.S. does not relieve the Contractor from assuming full responsibility for the method of construction for the temporary support system.

The Contractor shall distribute prints of the approved Working drawings as follows:

- 2 sets of prints to the D.C.E.S.
- 3 sets of prints to the Engineer

The cost of all shop drawing prints and reproducible required by this specification shall be included in the lump sum price bid for this item. All prints and reproducible requested beyond the number specified should be furnished by the Contractor at cost.

B. Construction Procedure

A suggested construction procedure has been outlined on the contract plans. The Contractor may submit as a part of the Working drawings an alternate construction procedure for approval by the D.C.E.S.

The Contractor shall monitor the horizontal and vertical jacking during the entire jacking procedure to ensure that all induced stresses remain within allowable limits. Any temporary strengthening required for structural elements to remain shall be performed as part of this task and shall comply with the requirements of the Steel Construction Manual.

The final alignment and profile of the erected steel shall conform to the requirements of the Contract Documents. Measurements shall be made by the Contractor as described in Art. 1212, 1213, and 1214 of the New York State Steel Construction Manual.

The displacement of the bridge during the horizontal and vertical jacking shall be carefully monitored to ensure that all elements are moving simultaneously and in the pre-determined direction and velocity. Secondary systems shall be in place to make necessary corrections to velocity and direction at any time during the process.

The Contractor shall notify in writing the Engineer not less than eight weeks in advance of the proposed date of the installation of the temporary support system.

The proposed date shall be agreed upon by the Contractor and the Engineer.

All structural steel work shall be done in accordance with the New York State Steel Construction Manual.

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The temporary support system shall be removed when no longer required. The support system shall remain the property of the Contractor and shall be removed from the site.

METHOD OF MEASUREMENT:

The work under this item will be measured on a lump sum basis. No field measurements shall be taken.

BASIS OF PAYMENT:

The lump sum price bid shall include the cost of furnishing all labor, materials and equipment necessary to complete the work.

Estimate payments in the amount of 75% of the bid amount will be made when the structures have been moved into final position with the remainder paid upon the removal of the Temporary Support System.