

**ITEM 552.30XX--25 - TEMPORARY SHORING OF PIER CAP**

**1. DESCRIPTION:**

- 1.01 This work shall consist of providing a shoring system for support of a pier cap in order to perform the work to be done under other items.
- 1.02 Bearing Point. For purposes of this specification, the term bearing point is defined as a point on the pier cap, designated on the plans, to be supported in order to perform other work. Minimum bearing loads for each bearing point shall be as indicated on the plans.

**2. MATERIALS:**

- 2.01 NOT SPECIFIED

**3. CONSTRUCTION DETAILS:**

- 3.01 The plans designate the minimum number bearing points that must be supported in order to perform the work. The loads at each bearing point are shown on the plans.
- 3.02 The Contractor shall engage the services of a New York State Licensed Professional Engineer to design and detail the temporary shoring system. He shall be available for consultation in interpreting his plans and in the resolution of problems which may arise during the performance of the work. All design and details shall be in conformance with the current New York State Department of Transportation Standard Specifications for Highway Bridges and the current New York State Steel Construction Manual. Minimum vertical clearance for the road below must be maintained.
- 3.03 The Contractor shall furnish working drawings, prepared, stamped and signed by a New York State Licensed Professional Engineer, for the system proposed to support each designated bearing point. Six legible, standard size (22" x 34" nominal) prints of each drawing, together with three copies of all design computations shall be submitted to the Engineer.

The Engineer shall be allowed the longest of the following time durations to examine design computations and work drawings.

- 1. Ten (10) working days.
- 2. Two (2) working days for each drawing of a set.
- 3. One working day for every four (4) design computation sheets. Any design computation sheet written on both sides will be considered as two design computation sheets.

All time for examination shall begin upon receipt of all pertinent information by the Engineer.

The Engineer's 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 legitimate reason to request an extension of time under subsection 108-04, Extension of Time.

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**3. CONSTRUCTION DETAILS:** (cont'd)

3.03 (cont'd)

All Work shall be done in accordance with the approved working drawings. The Contractor must have approved working drawings prior to the start of any temporary shoring operations.

The Contractor shall bear all costs and/or damages which may result from the ordering of any materials or equipment, or the use of any preparatory labor prior to the approval of the working drawings.

3.04 All welding shall comply with the requirements specified in the current New York State Steel Construction Manual.

All materials required for temporary support of the structure shall remain the property of the Contractor and shall be removed from the site after the work is completed unless otherwise agreed to.

**4. METHOD OF MEASUREMENT:**

4.01 The work under this item will be measured for payment on a lump sum basis.

**5. BASIS OF PAYMENT:**

5.01 The lump sum bid shall include the cost of all material, equipment and labor necessary to adequately support the pier cap when shown on the plans, for the duration indicated on the plans.

5.02 Once the temporary shoring is installed, payment will be made for seventy percent of this item. The remainder will be paid for after the shoring has been removed.