

**ITEM 09563.98 M - EXPOSING STRANDS ON PRESTRESSED
CONCRETE BOX
BEAMS**

DESCRIPTION.

The work consists of carefully removing three designated box beams from a bridge, storing them in an inverted position at the construction site, and removing the concrete cover on the prestressing strands by hydrodemolition

MATERIALS.

None specified.

CONSTRUCTION DETAILS.

The Engineer will designate the three beams to be removed and studied as part of this work. All beams will be from the same structure.

The Contractor shall remove the designated beams in a manner that does not inflict damage. The concrete wearing course on the beams shall be removed if it is not bonded to the beam. If it is necessary to make any cuts to allow removal, the cuts shall be carefully laid out so they are made in the shear key material as close to the adjacent beam as possible, or over the adjacent beam.

The beams are to be removed by the Contractor and then inverted so the wearing course is on the bottom. The beams may be arranged abutting each other to facilitate concrete removal operations.

The Contractor shall allow at least one week from the time the beams are inverted for the Department to map deterioration of the beams and obtain chloride samples from the beams.

Prior to commencing concrete cover removal work, the Contractor shall notify the Engineer at least one week in advance of the work so observers may be on site when the work is ongoing.

Concrete removal shall be by hydrodemolition or other methods approved by the Engineer, starting at one end of the beam and progressing to the other end. Removal shall be to a depth that frees the bottom layer of prestressing strands from the surrounding concrete. The strands shall be washed with a low pressure blast to remove the hydrodemolition debris. Water retention, filtration and disposal shall meet the requirements of §579-3.04.

The Contractor shall mark each 2 meter length of strand with a system that identifies the location and orientation of that section of strand. The marking system shall be approved by the Engineer. The strands shall be cut into 2 meter lengths and transported to the Transportation Research and Development Bureau, 1220 Washington Avenue, Albany, NY 12232.

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After the strands are removed, the Contractor shall dispose of the beams in accordance with the requirements of §202.

METHOD OF MEASUREMENT

The work will be measured as a lump sum.

BASIS OF PAYMENT

The price bid shall include all labor, materials, and equipment necessary for the work.

Progress payments will be made: 30% upon removal and inverting the beams, 50% after exposing of prestressing strands. The remainder will be paid upon disposal of the beams.