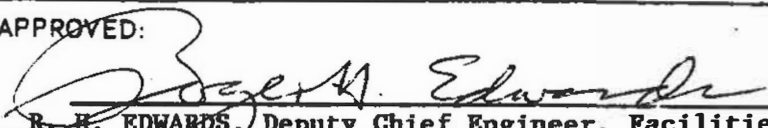
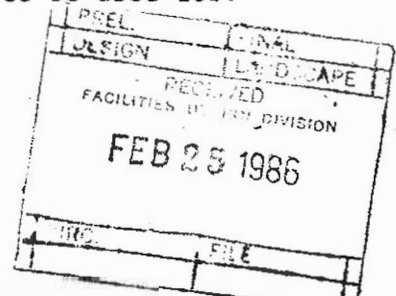


TO: SUPERSEDED BY EI 94-030 EFFECTIVE 1/12/95	<h1 style="margin: 0;">ENGINEERING INSTRUCTION</h1> <p style="margin: 0;">NEW YORK STATE DEPARTMENT OF TRANSPORTATION</p>
	SUBJECT: BRIDGE MAINTENANCE Subject Code: 7.27-1-633
Distribution: 31 Main Office 33 Regions 34 Special	Code: <u> EI 86-8 </u> Date: <u> 2/18/86 </u> Supersedes:
APPROVED:  R. H. EDWARDS, Deputy Chief Engineer, Facilities Des. Division	

Funds have been appropriated for maintenance contract work to be used for:

- Painting Bridges - Coal Tar Epoxy & Regular System
- Cleaning Bridges - Superstructure & Drainage Systems
- Repairing & Cleaning Bridge Joints
- Cleaning & Rehabilitation of Bearings



These funds must be vouchered by July, 1987. Additional funding for these programs may be made for subsequent years and it is expected that approximately 80 contracts will be let during FY 86-87.

At the November 20, 1985 Design Engineers' meeting in Utica, it was announced that a standard insert package of specifications would be developed to assist the designers in preparing these projects for letting. Accordingly, the following may be used for:

Bridge Painting - present Standard Specifications, (570.01 - 570.06), cover regular alkyd system procedures and Special Specifications exist for procedures using Coal Tar Epoxy. See EI 84-22 for the latest specification and EI 84-8 for policy regarding the Coal Tar Epoxy.

Cleaning Bridges - we have attached copies of suggested specifications for maintenance cleaning of bridges under Item 15633.90, Maintenance Cleaning of Bridges. Scuppers, Troughs, and Downspouts can be cleaned using Items 15566.1302 attached.

Cleaning and Rehabilitating Bridge Bearings - Bridge Bearings may be rehabilitated under Item 15565.4302, Bridge Bearing Restoration. The necessary jacking is covered under Section 585 of the Standard Specifications.

Cleaning, Repairing Bridge Joints - Specifications for this work will be issued under separate cover.

These specifications may be used immediately.

15566.1302 Cleaning Drainage Systems

Description

The work shall consist of cleaning and maintaining, in a clean condition, existing drainage systems. The work shall be accomplished at the locations indicated on the plans, or where directed by the Engineer. Dismantling and reinstalling the elements to be cleaned, if such work is necessary to clean the elements required, shall be included as part of this work.

Materials

Not specified. All equipment shall be approved by the Engineer prior to actual use.

Construction Details

The existing downspouts, scuppers and troughs, shall be cleaned by using high pressure water, vacuum, or other techniques satisfactory to the Engineer. Chemical cleaning compounds shall not be used during flushing operations, unless clearance has been given by the Regional Director for its use. Debris from the cleaning operations shall not be deposited in, or around, the structure, highway, roadway slopes, drainage systems or streams. It shall be disposed of in a manner satisfactory to the Engineer.

Cleaned scuppers, downspouts and troughs shall allow the unimpeded flow of water. After cleaning has been completed, the Engineer shall determine the flow characteristics of the cleaned system. If, in his opinion, flow is still impeded in any manner, he will direct the Contractor to reclean the system, including dismantling and reinstalling, if required, at no additional costs. Any damage to the system or structure that occurs during cleaning operations shall be repaired by the Contractor to the satisfaction of the Engineer at no additional expense to the State. The system, including but not limited to, scuppers, troughs and downspouts, shall be maintained clean by the contractor for the duration of the contract.

Method of Measurement

The quantity to be measured will be the number of drainage systems cleaned as required.

Basis of Payment

The unit price bid for each drainage system shall include the cost of furnishing all labor, materials and equipment necessary to complete this work. Only one payment will be made, regardless of the number of times the system is cleaned.

15633.90XXXX Maintenance Cleaning of Bridges

Description

This work shall consist of removing debris and washing all exposed concrete and steel surfaces where indicated on the plans or where directed by the Engineer. This work shall include, but is not limited to, bridge decks, curbs, facias, approach shoulders, wing walls, back walls, bridge seats, pier caps and columns, and structural steel.

Materials

None specified. All equipment and methods shall be approved by the Engineer, prior to actual use.

Construction Details:

All debris possible shall be removed and disposed of in a manner approved of by the Engineer before the bridge is washed. Care shall be taken during cleaning not to remove any epoxy protective coating, paint or other protective coating on the bridge. No washing shall take place unless the temperature is 40°F and rising. The bridges shall be free of debris at the time of final acceptance of the contract.

Method of Measurement

Payment will be made at the lump sum price bid per structure.

Basis of Payment

The lump sum price bid shall include the cost of all labor, materials, and equipment necessary to complete the work and shall include any repair of material damaged by the contractor's operations.