

BRIDGE RAILING REPAIR

****From Arlington STP 2334(1)/Arlington-Dorset STP 2625(1)**

- xx. DESCRIPTION. This work shall consist of furnishing and installing new bridge railing components at the locations indicated in the Plans and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions and Section 525 of the Standard Specifications, with the exception that the provisions of Subsection 525.03 do not apply.

- xx. MATERIALS.

(a) Railing Components. Railing components shall meet the requirements of Subsection 732.03.

(b) Hardware. The Contractor shall furnish four (4) new ASTM A 449 22 mm (7/8") diameter anchor bolts per post. The anchor bolts shall be furnished with one (1) nut and one (1) washer per bolt.

See Agency Standard Drawing SB-R4A-82 for additional information.

- xx. GENERAL REQUIREMENTS. Type IV bridge railing repair shall consist of removing existing Galvanized 2 Rail Box Beam bridge railing and posts and installing replacement Galvanized 2 Rail Box Beam bridge railing and posts with new anchor bolts drilled and grouted into existing concrete curb.

Drill holes shall be 45 mm (1 3/4") in diameter. New anchor bolts shall be grouted in with a two component adhesive mortar or epoxy approved by the Engineer. A minimum pullout strength of 134 kN (30 kips) shall be attained on the new bolts. A sample grouted bolt will be tested before materials are approved for use, and then random bolts will be field tested by the Agency to ensure this strength is being attained. The Contractor shall assume that the existing concrete curb is 21 MPa (3000 psi) concrete.

- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Bridge Railing Repair, Type IV) to be measured for payment will be the number of meters (feet) of railing repaired in the complete and accepted work, measured within the limits shown on the Plans or as directed by the Engineer.

- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Bridge Railing Repair, Type IV) will be paid for at the Contract unit price per meter (linear foot). Payment will be full compensation for removing and disposing of existing railing components to be replaced; detailing, treating, furnishing, handling, and placing new railing components and associated hardware; for all work necessary for verifying and adjusting post height and/or bolt spacing of existing posts; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

10/5/2011

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.640 Special Provision (Bridge Railing Repair, Type IV)	Meter (Linear Foot)