

10565.4201 M FIXED STEEL BRIDGE BEARINGS – LIRR OVER I-495

DESCRIPTION

This work shall consist of furnishing and installing new fixed bridge bearings at locations indicated on the plan and specified herein. The furnishing of all materials and labor necessary to perform this work is included under this item.

MATERIALS

Steel Components

Unless otherwise noted on the plans, all steel components of the fixed bearings shall conform to the applicable requirements of the New York State Steel Construction Manual.

Rolled structural steel plates for the fixed bearing, including but not limited to the masonry plates, shall conform to the requirements of ASTM A36M, ASTM A572M, ASTM A588M or ASTM A709M Grades 50 or 50W.

Steel for the bearing pins shall conform to the requirements of ASTM A36M, ASTM A572M, ASTM A588M, ASTM A709M Grades 50 or 50W, or ASTM A668 Class C, D, F or G.

Cast steel shall conform to the requirements of Subsection 715-02.

External surfaces of cast steel and rolled plates fabricated from ASTM A36M, ASTM A572M or ASTM A709M Grade 50 steel shall be protected from rust until all exposed surfaces can be field painted. Any rust inhibitor used shall be removed from all surfaces to be welded, prior to welding.

Anchor Bolts

Anchor bolts, hexagonal nuts and washers shall conform to the requirements subsection 723-60 - Anchor Bolts.

Concrete Grouting Material

Grout shall conform to the requirements of Subsection 701-05 – Concrete Grouting Material.

Protective Coatings

The provisions of Subsection 565-2.04 of the Standard Specifications shall apply.

Shop Drawings

Shop drawings are required for all bearings. Shop drawings shall be furnished in accordance with Section 2 of the New York State Steel Construction Manual.

10565.4201 M FIXED STEEL BRIDGE BEARINGS – LIRR OVER I-495

CONSTRUCTION DETAILS

Except as otherwise indicated on the contract plans, the provisions of Subsection 565-3 of the Standard Specifications for Type S.R. Bearings and applicable provisions of the New York State Steel Construction Manual shall apply.

METHOD OF MEASUREMENT

The quantity to be paid for under this item shall be the number of new bearings furnished and installed. Payment will be made only once at each bearing location, regardless of the number of times the bearing is reset during the course of the work.

BASIS OF PAYMENT

Payment for this Work

The unit price bid for each bearing shall include the cost of all labor, materials, equipment, and adjustment necessary to complete the work. All new material between the bottom of the superstructure and the top of the substructure shall be included in the unit price bid for this item.

Payment for Related Items of Work

Jacking the existing bridge structure in order to uniformly raise the bridge profile, detaching the eight (8) existing expansion bearings at existing Pier Nos. 1 and 3, and resetting the existing bearings on temporary shim plates in order to raise the bridge profile (Stage 1 construction) will be paid for separately.

Removing the eight (8) existing expansion bearings and temporary shim plates at existing Pier Nos. 1 and 3 during Stage 6 construction, after load is transferred to the temporary supports, will be paid for separately.

Furnishing, installation and removal of the temporary jacking support structures will be paid for separately.