

ITEM 606.9501--39	TIMBER BARRIER RAIL TWO RAIL (TYPE A)
ITEM 606.9502--39	- TIMBER BARRIER RAIL ONE RAIL (TYPE B)
ITEM 606.9503--39	- TIMBER BARRIER RAIL ONE RAIL (TYPE C)
ITEM 606.9504--39	- TIMBER BARRIER RAIL TWO RAIL (TYPE C)
ITEM 606.9505--39	- TIMBER BARRIER RAIL ONE RAIL (TYPE D)
ITEM 606.9506--39	- TIMBER BARRIER RAIL TWO RAIL (TYPE D)

DESCRIPTION

This work shall consist of furnishing and installing TIMBER BARRIER RAIL in accordance with the Contract Documents and directions of the Engineer. Unless otherwise indicated, the barrier rail shall conform to NYC Department of Parks & Recreation Standard Detail Sheet "Barrier Rail Types A-D".

MATERIALS

The type of timber barrier rail design shall be indicated on the plan.

Posts and Rails : Shall be manufactured of No. 1 common Douglas Fir or Yellow Pine. The posts and rails shall be well manufactured in accordance with details shown in the Contract Documents. All exposed corners and faces shall be free from damage, dog holes, and pike or cant holes.

Hardware: All hardware shall be hot-dipped galvanized and shall include bolts with necessary nuts and washers, timber connectors, nails, and other metal fastenings. Bolts and nuts shall conform to ASTM A307.

Foundation Material : Each post shall be supported by a foundation of bagged stone as shown on the standard detail. Recycled concrete 75mm (3/4") blend in a burlap bag is acceptable.

Preservative Treatment : All wood components shall be pressure preservation treated in strict accordance with the provisions of the AWWA standards. Wood shall be seasoned, either by air-drying or kiln drying, and the moisture content prior to treatment shall be not more than 25%. Wood shall be treated to a net retention of 6407 grams per cubic meter (0.40 pounds per cubic foot) with ACQ (ammoniacal copper quaternary), The preservative shall penetrate 63mm (2.5") or 85% of the sapwood. All details of treatment methods, quality, control and product testing shall be in accordance with the appropriate AWWA standards. In accordance with New York State law, Bills A102 and S7167, CCA (chromated copper arsenate) treatment is prohibited as a wood preservative treatment material.

Posts shall be dried at least thirty days after treatment and prior to installation. All fabrication shall be performed prior to treatment. Where field cuts have to be made, the cut ends shall have two coats of concentrated preservative brushed on. Certificate of compliance from the treating plant shall be submitted to the Engineer.

Submittals:

Wood Treatment Affidavit: The Contractor shall provide at his own expense a sworn affidavit as to the type, grade and quality of preservative treatment provided, and the net final retention in kilograms per cubic meter of wood impregnated all conforms to the requirements of the

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specifications. The Contractor shall submit documentation that the treatment conforms to the AWPA Standards for treatment of the wood for the intended use.

CONSTRUCTION DETAILS

All timber barrier rail shall be assembled and installed in accordance with the drawings. Set all carpentry work accurately to required levels and lines, with all members plumb, true, and accurately cut and fitted. Securely attach carpentry work to substrates by anchoring and fastening as shown on drawings and as required by recognized standards. Do all cutting, fitting, and patching required to properly fit rough carpentry work. Make tight connections between members. Install fasteners without splitting wood. Deep tool marks in wood surfaces shall be considered evidence of poor workmanship and cause for rejection of the pieces affected.

Contractor shall backfill surrounding area to provide positive drainage and in accordance with the drawings. All bolts shall be cut and peened as directed by the Engineer.

METHOD OF MEASUREMENT

This work will be measured along the top rail as the linear meters of TIMBER BARRIER RAIL satisfactorily furnished and installed in accordance with the plans and specifications and directions of the Engineer.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.