

ITEM 08568.80 M - GLULAMINATED PEDESTRIAN AND BICYCLE RAILING

DESCRIPTION:

Under this item the contractor shall furnish and install glulamined pedestrian and bicycle railing, including posts and component parts, in accordance with these specifications, as shown on the plans and as ordered by the Engineer.

MATERIALS:

Glulamined wood railing and posts shall be the size specified on the plans and in accordance with the requirements of Voluntary Product standard PS 56-73 for Glued Laminated Timber published by the United States Department of Commerce, National Bureau of Standards, Washington, D.C. 20234. All lumber shall be pressure treated in accordance with Section 708-31, Wood Preservative - Water Borne. Bituminous and oil-borne preservative treatment will not be permitted. All stress graded lumber shall comply with the requirements for Stress Graded Timber and Lumber, of Section 712-14.

When a color other than the color of the wood is specified, it shall be obtained by the application of the approved stain to the satisfaction of the Engineer.

Square galvanized steel tubing - A53M Grade B or A501M, painted brown
Circular galvanized steel pipe - A53M Grade B or A501M, painted brown
High Strength Bolts, Nuts and Washers - A325M Type 3, painted brown

All steel tubing, steel pipe, steel plates, nuts, bolts, washers and other metal hardware shall be galvanized in accordance with Section 719-01, Galvanized Coatings and Repair Methods.

Anchor bolts shall be securely fastened, as shown on the plans and to the satisfaction of the Engineer.

Concrete for footings shall comply with the material requirements for Class HP Concrete, of § 555-2.

CONSTRUCTION DETAILS:

Posts, rails and end assemblies shall be erected in the position and manner indicated on the plans and as approved by the Engineer. All posts shall be aligned to a tolerance of ± 6 mm for plumb and grade line.

Excavation for footings shall comply with the requirements of Section 206, Trench, Culvert and Structure Excavation. Concrete work shall comply with the requirements of Section 555 -

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Structural Concrete.

Welding, whether shop or field as shown in the contract documents, shall conform to the requirements as specified in the "New York State Steel Construction Manual" except radiographic inspection will not be required.

Galvanizing damaged by field welding or any other cause shall be repaired in accordance with the requirements of Subsection 719-01 Galvanized Coatings and Repair Methods.

The contractor, shall submit shop drawings of the specified railing or shop drawings details of an alternate pedestrian and bicycle railing. No work on an alternate shall be done without written approval of the Regional Design Engineer.

METHOD OF MEASUREMENT:

The quantity to be paid for glulamined pedestrian and bicycle railing shall be the number of linear meters measured along the center of the uppermost rail as shown on the plans or as ordered by the Engineer.

BASIS OF PAYMENT:

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