

## **ITEM 10594.20 M - FLOATING BOAT DOCK**

**DESCRIPTION.** Work entails the supply and installation of a floating boat dock, anchorages, and access ladders and rails on the south side of the fender system adjacent to Pier No. 5. The dock shall be located (at the direction of the Engineer) between the northbound and southbound bridges. The dock dimensions shall be approximately 3 meters in length by 1.5 meters in width. The dock shall also accommodate a tidal freeboard range of 3 meters (0 meters elevation at sea level - minus 1 meter and plus 2 meters elevation).

**MATERIALS.** The dock structure shall be comprised of glu-laminated side beams (laminated horizontally and structurally connected with salt water corrosive resistant fasteners) shall form a structural box frame. All beams to be No. 1 grade, Southern Yellow Pine, with top laminated board premium grade AITC No. 110.

The floatation and encasement materials shall consist of 0.5 kg density flame resistant expanded polystyrene structurally connected to the framework with salt water corrosion resistant fasteners. The floatation shall be encased by hot-dipped galvanized 20 gage steel sheets.

The decking material shall consist of a precast reinforced concrete plank. A rubrail shall also be provided for the entire dock perimeter. Cleats (250 mm - 375 mm) shall also be provided along the perimeter and shall be bolted to the frame (using saltwater corrosion resistant bolts).

The anchorages shall consist of a telescopic pipe and collar system or other means approved by the Engineer to accommodate a water depth of up to 10 meters. Access ladders and rails shall be made of timber or galvanized steel/aluminum with saltwater corrosion resistant connections.

### **CONSTRUCTION DETAILS.**

**Codes and Loading Requirements.** The dock shall meet all U.S. Coast Guard and U.S. Army Corps of Engineers specifications. The following load requirements shall be provided:

1. Deck Live Load: 4,788 pascals.
2. Horizontal Wind Load: 815 pascals (130 Km/hr).

**Catalog Cuts/Shop Drawings.** Catalog cuts or shop drawings including all descriptive data for all materials shall be submitted for approval. This information shall be in accordance with the requirements of the SCM and submitted to the EIC for approval. All documents submitted for approval shall be sealed by a Professional Engineer licensed in the State of New York.

**ITEM 10594.20 M - FLOATING BOAT DOCK**

**Coordination.** The Contractor shall be responsible for supplying full information to all trades relative to the work they are to perform in connection with this item.

**METHOD OF MEASUREMENT.** Payment will be made at the lump sum price bid.

**BASIS OF PAYMENT.** The lump sum price bid for this item shall include all labor, material, and equipment necessary to complete the work described herein.