

## **ITEM 10553.96 M -TIMBER NAVIGATION FENDER SYSTEM**

### **DESCRIPTION**

Under this work, the Contractor shall furnish and install the timber navigation fender system including the timber, straps, and all connecting hardware, as indicated on the Contract Plans.

### **MATERIALS**

All timber shall be Southern Yellow Pine No. 1 meeting the requirements of ASTM D245.

All timber shall be treated in accordance with subsection 708-31, Wood Preservative - Water Borne.

All Structural Steel shall meet the requirements of ASTM A36.

All bolts, nuts, and washers shall meet the requirements of ASTM A325.

The timber fender pier protection system and connecting hardware shall be of the size and style as shown on the Contract Plans.

All straps and connecting hardware shall be galvanized.

The materials for this work shall meet the requirements of the following subsections:

|  |        |
|--|--------|
| Wood preservative - Water Borne        | 708-31 |
| Stress Graded Timber and Lumber        | 712-14 |
| Structural Steel                       | 715-01 |
| High Strength Bolts, Nuts and Washers  | 715-14 |
| Galvanized Coatings and Repair Methods | 719-01 |

### **CONSTRUCTION DETAILS**

The Contractor shall install the timber fender pier protection system at the locations shown on the Contract Plans, taking care not to damage or disturb the protective coating on the surface of the concrete columns.

Prior to installation, all timber and lumber shall be examined for the following defects: shakes, holes, knots, checks, splits, decay, and twist. Any piece of timber or lumber exhibiting any one of the foregoing defects shall be subject to rejection as determined by the Engineer.

### **METHOD OF MEASUREMENT**

Payment will be made for the number of columns as installed with fenders in accordance with the Contract Plans.

### **BASIS OF PAYMENT**

The unit price bid shall include the cost of all labor, materials and equipment necessary to complete the work, including all field cutting, fitting, washers, bolts, and nuts, unless otherwise noted on the Plans.