

SECTION 024060
MARINE TIMBER (S-93)

1. DESCRIPTION

This specification shall govern all work necessary for furnishings and installing timber required to complete the project. The lengths and dimensions of timbers shall be as shown on the plans or as determined in the field by the Engineer.

2. MATERIALS

Unless specified otherwise, all timber members shall be new Southern Yellow Pine, pressure treated in accordance with A.W.P.A. Standard C1-78, C2-80 and C18-77 (or latest revisions). All timber shall be treated with chromated copper arsenate (CCA) conforming To A.W.P.A. Standard P5-78 (or latest revision) to a minimum final retention of .6 p.c.f. by assay (.4 p.c.f. by assay may be used where specifically indicated on the Plans or Special Provisions). The grade of lumber shall be as specified on the Plans or Special Provisions.

All timber shall be S4S milled to applicable size and tolerance, unless noted otherwise in the drawings and all materials shall be new and shall not have been previously used unless otherwise noted.

3. CONSTRUCTION METHODS

Field and handling procedures shall comply with A.W.P.A. Standard M4-80 (or latest revision). All timber shall be treated to comply with A.W.P.A Standard M4-80.

Nailing of members shall be sufficient to ensure adequate joining of members. Nails shall be hot-dipped USS common domestic manufacturer. USS box end nails will not be allowed. Nails shall be of a size as indicated on the drawings. Where sizes are not indicated, they shall be in accordance with standard acceptable practice.

Lag bolts shall have lead holes for the shank bored the same diameter as the shank and the same depth as the length of the unthreaded shank. The lead holes for the threaded portion shall have a diameter of 60 to 75 percent of the shank diameter and a length equal to at least the length of the threaded portion. Lead holes shall be not be bored completely through the piles. If this is done, the exit hole shall be plugged. The threaded portion of the screw shall be inserted into the lead hole by turning with a wrench and not by driving with a hammer. Epoxy shall be used as a lubricant on the lag bolt and lead hole to facilitate insertion and prevent damage to the bolt and galvanized finish.

Through bolted joints shall have lead holes bored from 1/32 to 1/16 inch larger than the bolts. Tight fit requiring forcible driving is not recommended.

4. CERTIFICATION & TESTING

Timber shall be marked with the identification of the treating company. Compliance with specifications regarding physical characteristics and preservation retention shall be verified by lab reports from an independent testing lab. The reports shall be delivered with the material shipment. Failure to comply with these specifications will be cause to reject the shipment. The City reserves the right to have additional lab testing performed prior to acceptance of materials. If the materials do not meet specified

requirements, the Contractor shall pay for the lab testing.

5. MEASUREMENT AND PAYMENT

Unless indicated otherwise in the Proposal, Marine timber shall not be measured for pay, but shall be subsidiary to the appropriate bid item.