

SECTION 024080
TIMBER PILING FOR PIER CONSTRUCTION (S-94)

1. DESCRIPTION

This specification shall govern shall work necessary for furnishing and installing timber piles required to complete the project.

2. MATERIALS

All piles shall be Souther Yellow Pine, complying with ASTM Standard D25-73 (or latest revision). Piles shall be pressure treated in accordance with A.W.P.A. Standard C1-78 and C18-77 (or latest revisions) with chromated copper arsenate (CCA) conforming to A.W.P.A. Standard P5-78 (or latest revision) to minimum final retention of 2.5 p.c.f. by assay.

3. CONSTRUCTION METHODS

Equipment used for the installation of piles shall be of current design, safe, and of the required capacity and condition necessary to complete the project. The Contractor shall be responsible for safe storage and handling of all piles furnished to or by him and shall use every precaution to avoid damage to the treated piling.

The embedment depth shall be measured from the top of the firm, hard virgin material (not shoal deposits) to the maximum penetration of the pile. All piles (battered piles excluded) shall be driven vertically. Before beginning the driving operation, lead shall be checked for plumb. At the cut-off point, the pile shall not be over three (3) inches from the position indicated on the plans. It shall be the responsibility of the contractor to select the appropriate hammer, pile caps, tips, etc., as required to place the piles. All piles damaged during handling or placement shall be replaced by the Contractor at no additional cost to the City.

After final trim, all piles shall be sealed at the top in compliance with A.W.P.A. Standard M4-80.

An accurate record of pile location, length and embedment depth shall be kept by the Contractor for each pile driven. The record shall be kept on the job site for the Engineer's review and shall be submitted to the Engineer upon completion of the pile driving operation.

4. CERTIFICATION AND TESTING

Piles shall be branded in accordance with A.W.P.A. Standard M6 (latest revision). Compliance with specifications regarding physical characteristics and preservative 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, piles will be measured by the linear foot along the centerline from the point at which the Contractor cuts off the pile to the depth of minimum embedment. The City will allow payment for one (1) additional foot of embedment should the Contractor elect to drive

the pile deeper than the minimum embedment depth. Any length above the top cut-off will not be measured for pay. Payment shall include, but not be limited to transporting, storing, cutting, drilling and placement of the piles.