

PART 1 GENERAL

1.1 SCOPE

The work under this section consists of the procurement, treatment, transport, and delivery to the Port's designated location of all timber piles for the repair of the West Hylebos Log Dock as specified herein.

1.2 REFERENCES STANDARDS

- A. The publications listed below form a part of this specification to the extent referenced. References shall be the latest edition available as of the date of the invitation to bid unless otherwise specified.
- B. American Society for Testing and Materials (ASTM)
 - 1. ASTM D25 - Standard Specification for Round Timber Piles
- C. American Wood Protection Association (AWPA)
 - 1. AWPA M1 - Standard for the Purchase of Treated Wood Products
 - 2. AWPA M2 - Standard for the Inspection of Wood Products Treated with Preservatives
 - 3. AWPA M3 - Standard Quality Control Procedures for Wood Preserving Plants
 - 4. AWPA M4 - Standard for the Care of Preservative-Treated Wood Products
 - 5. AWPA M6 - Brands Used on Preservative Treated Materials
 - 6. AWPA U1 - User Specification for Treated Wood
 - 7. AWPA T1 - Processing and Treatment Standard
- D. West Coast Lumber Inspection Bureau (WCLIB)
 - 1. Standard Grading Rules No. 17
 - 2. Supplement XIV to Standard Grading Rules No. 17
 - 3. Supplement XV to Standard Grading Rules No. 17

1.3 SUBMITTALS

- A. Certifications

Prior to delivery of pile to the designated site, submit the inspection report for approval by the Project Engineer, stating that offered products comply with applicable AWPA Standards. Identify treatment on each piece by the quality mark of an agency accredited by the Board of Review of the American Lumber Standard Committee.

1.4 QUALITY ASSURANCE

The producer must brand each treated pile, in accordance with AWPA M1, AWPA M2, AWPA M6, AWPA T1 and AWPA U1. Submit the inspection report for approval by the Project Engineer stating that offered products comply with applicable AWPA Standards and that the plant conforms to AWPA M3.

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1.5 DELIVERY, STORAGE AND HANDLING

A. Delivery And Acceptance Requirements

1. Timber piles to be delivered FOB truck to 2311 E 11th Street, Tacoma, WA 98421. Delivery to be coordinated through Port of Tacoma Project Manager Jan Shawyer at (253) 298-1078. The Vendor shall provide for inspection of the materials for damage as warranted during transfer of ownership.
2. Materials delivered to the site shall be new and undamaged.

B. Storage and Handling Requirements

Handling, storage, and field treatment shall be in accordance with AWP4 M4.

C. Replacements

1. In the event of damage, immediately make all repairs and replacements necessary to the approval of the Project Engineer at no additional cost to the Port.
2. Provide additional piles or replace piles to conform to specified requirements.

PART 2 PRODUCTS AND MATERIALS

2.1 TIMBER PILES

- A. Provide timber piles as specified herein. All piles shall be supplied in full length. Splicing is not permitted.
- B. Timber piles shall have a nominal butt circumference and length as shown in Section 2.01 Paragraph C Pile Schedule. Piles shall be Coastal Region Douglas-Fir, clean peeled, selected for appearance and quality and conforming to ASTM D25.
- C. Pile Schedule

Pile Schedule				
Pile Identifier	Minimum Butt Diameter measured 3 feet from the butt (inch)	Minimum Circumference measured 3 feet from the butt (inch)	Minimum Pile Length (feet)	Quantity
Fender Pile	18	57	90	118

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D. Pile Identification

Each pile shall be clearly and legibly marked at the top of pile with the pile identifier in Section 2.01.C, length and size, and a unique mark number when more than one pile is furnished of a particular size for a particular structure.

E. Treatment

1. Timber piles shall be treated with Ammoniacal Copper Zinc Arsenate (ACZA) with a net retention of 1.5 pcf in accordance with AWPA UC5A for marine use in northern waters.
2. All cuts or abrasions occurring after pressure treatment shall be carefully trimmed and brush coated or otherwise saturated with three applications of copper naphthenate.

PART 3 EXECUTION

NOT USED