

SECTION 150

TIMBER PILES

150.1 GENERAL

This work shall consist of furnishing timber piles of type and size shown on the plans or specified.

150.2 REFERENCES

150.2.1 ASTM

D 25

150.2.2 AASHTO

M 133

150.2.3 This publication

SECTION 502

150.3 MATERIALS

150.3.1 Timber piling shall be dense southern yellow pine, Coast Region Douglas fir, or western larch cut from sound trees. Piling shall meet the requirements of ASTM D 25 and shall comply with the minimum circumference values given in the Table 150.3.1.

Table 150.3.1

MINIMUM CIRCUMFERENCE VALUES

File Length (Feet)	Minimum Circumference 3 Feet from Butt (Inches)
40 and under	38
41 to 50 inclusive	41
51 to 60 inclusive	44
61 to 70 inclusive	50
Over 70	Shown on Plans

150.3.2 Unless otherwise provided, piles shall be furnished in lengths shown on the plans. Variations of one foot from the designated length will be permitted, except that the average length of all piles of a specified length shall be equal to or greater than the required length. The supplier shall legibly mark the size and length on the butt end of each pile. Tips and butts shall be cut at right angles to the axis of the pile. Tips shall be pointed to a 4 inch square point when approved by the ENGINEER.

150.3.3 Piles shall be cut from the main body of the tree and shall be cut above the ground swell with a

gradual taper from the point of butt measurement to the tip.

150.3.4 All piling shall be subject to inspection by the ENGINEER before and after treatment. In the rejection of materials not found suitable, the judgment of the ENGINEER shall be accepted. The butt and tip of each pile accepted will be branded with a marking hammer showing the identity of the ENGINEER who performed the work.

150.3.5 Treated timber piling not inspected prior to treatment will not be accepted unless approved in writing by the ENGINEER.

150.3.6 The method of handling and storing piles shall be such as to prevent injury during handling or damage during storage. Piles shall be handled with slings or other approved methods. Cant hooks, pike poles, or similar tools shall not be used where such tools will penetrate the wood.

150.3.7 Timber piling shall be treated with creosote oil conforming with the requirements of AASHTO M 133. The amount of preservative retained shall be 12 pounds per cubic foot of wood. The empty-cell process shall be used.

150.4 MEASUREMENT AND PAYMENT

Measurement and payment shall be as specified in Section 502.