

# **WOOD POLES**

## **MATERIAL SPECIFICATION #1100.01**



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Chelan County Public Utility District  
PO Box 1231  
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## 1. SCOPE AND GENERAL REQUIREMENTS

The purpose of this specification is to cover the Public Utility District No. 1 of Chelan County, Wenatchee, Washington, requirements for wood poles used in overhead electric line construction.

All poles should meet the requirements of the latest American National Standard Specifications and Dimensions for Wood Poles, ANSI O5.1, except as otherwise specified herein. Preservative treatments shall be in accordance with the latest American Wood Preservers' Association (AWPA) Standards, except as modified herein.

## 2. POLE CLASSES

Poles shall be of lengths and classes in accordance with the requirements referenced in the latest ANSI O5.1. The Public Utility District No. 1 of Chelan County most commonly utilizes the following classes for the designated length of pole. Other pole sizes shall be bid and specified in purchase order as needed.

Length of Pole	Class
30-35 feet	Class 5
40-60 feet	Class 1
65 feet or more	Class H1

## 3. MATERIAL REQUIREMENTS

Poles shall be Western Red Cedar and shall be manufactured from new timber meeting the requirements as referenced in the latest ANSI O5.1 except as modified herein.

## 4. DIMENSIONS

Poles shall meet the dimensional requirements as referenced in the latest ANSI O5.1.

## 5. MANUFACTURING REQUIREMENTS

Poles shall meet manufacturing requirements as referenced in the latest ANSI O5.1.

Starlocks are permitted after treatment

## 6. INCISING AND TREATMENT FOR POLES LONGER THAN 60 FEET

Poles shall be given a **full-length**, hot pressure treatment as referenced in the latest AWPA T1 and U1 Sections D respectively.

Preservative shall be pentachlorophenol petroleum solution (PENTA) meeting the requirements of the latest AWPA P8 and P9. If specified in the Purchase Order or Chelan Stock item number, the preservative shall be 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one petroleum solution (DCOI) meeting the requirements of the latest AWPA HSA and P39.

## 7. INCISING AND TREATMENT FOR POLES 60 FEET AND SHORTER

Poles shall be **butt-treated** by the thermal process as referenced in the latest T1 and U1 Sections D respectively. Preservative shall be pentachlorophenol petroleum solution (PENTA) meeting the requirements of the latest AWPA HSA and P35. DCOI (4,5-dichloro-2-n-octyl-4-isothiazolin-3-one



petroleum solution meeting the requirements of the latest AWP A HSA and P39) shall only be allowed with written pre-approval from Chelan PUD.

The tops of the poles shall be brush-treated with either a copper naphthenate solution containing at least a 2% concentration of copper, or a 5% pentachlorophenol petroleum solution, or a 2% DCOI petroleum solution. A liberal application shall be given the roof and top 18 inches of the pole including complete coverage of the inside of all bored holes.

## **8. FRAMING**

Poles will not be framed unless otherwise specified.

## **9. DEFECTS**

Hollow heart and decay, or both, will not be permitted. Type 2 “Decayed Knots” (as defined by ANSI O5.1) will be allowed provided the requirements of ANSI O5 are met.

The sweep or curvature, for all poles in the inspection lot shall be within 1 inch for each 10 feet of length as measured from the pole butt to pole tip.

Poles with sweep in two planes (double sweep) will not be accepted.

## **10. STORAGE AND HANDLING**

Poles shall meet storage and handling requirements as referenced in the latest ANSI O5.1. Canthooks, carrying tongs, or other tools that might puncture the treated wood shall not be applied to the section between the butt and 2 feet above the ground line.

## **11. INSPECTION**

Price to include shipping and inspection costs.

Poles shall be inspected by either of the following District approved pole inspection companies.

<b>Bode Inspection Inc.</b> P.O. Box 307 Beaverton, OR 97075 (503) 590-3555 Fax # (503) 590-2802 E-mail: bodeins@comcast.net	<b>Timber Products Inspection</b> 105 S.E. 124th Avenue Vancouver, WA 98684 Phone: (360) 449-3840 Fax: (360) 449-3953 E-mail: jrustad@tpinspection.com
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The supplier shall be responsible for coordinating inspection at their facilities. The supplier shall give the inspector access to his yards during working hours. The inspector has the authority to accept or reject any pole that in his judgement does not meet or exceed the requirements of this specification.

## **12. CERTIFIED TEST REPORT**

The inspector shall supply an after treatment certified test report. This test report shall certify that the poles have been inspected and tested in accordance with the requirements with this specification, and shall state what the actual penetrations and retentions were for each tank load involved.

This test report shall certify that the poles meet the requirements of this specification and selected



options.

Each Certified test report will be signed by the actual inspector and forward to the the Districts Standards Engineer.

### **13. ALUMINUM TAG**

Poles shall have two aluminum tags displaying pertinent information in accordance with the latest ANSI O5.1. One tag will be located on the butt of the pole and the other located on the face of the pole and each inset not less than ½ inch.

Poles shall have the location of the aluminum tag on the face of the pole to be 10% of the nominal pole length plus seven (7) feet from the butt of the pole.

### **14. EVALUATION AND AWARD**

For the purpose of evaluating bid, consideration will be given to past performance regarding quality of product and service.

For the purpose of evaluating bid, consideration will be given to delivery time.

Whenever applicable for purpose of evaluating bid, equalizing elements or factors not specifically mentioned or provided herein, in addition to price, which would affect the final cost to and the benefits to be derived by the District, will be taken into consideration in determining the award of contract.

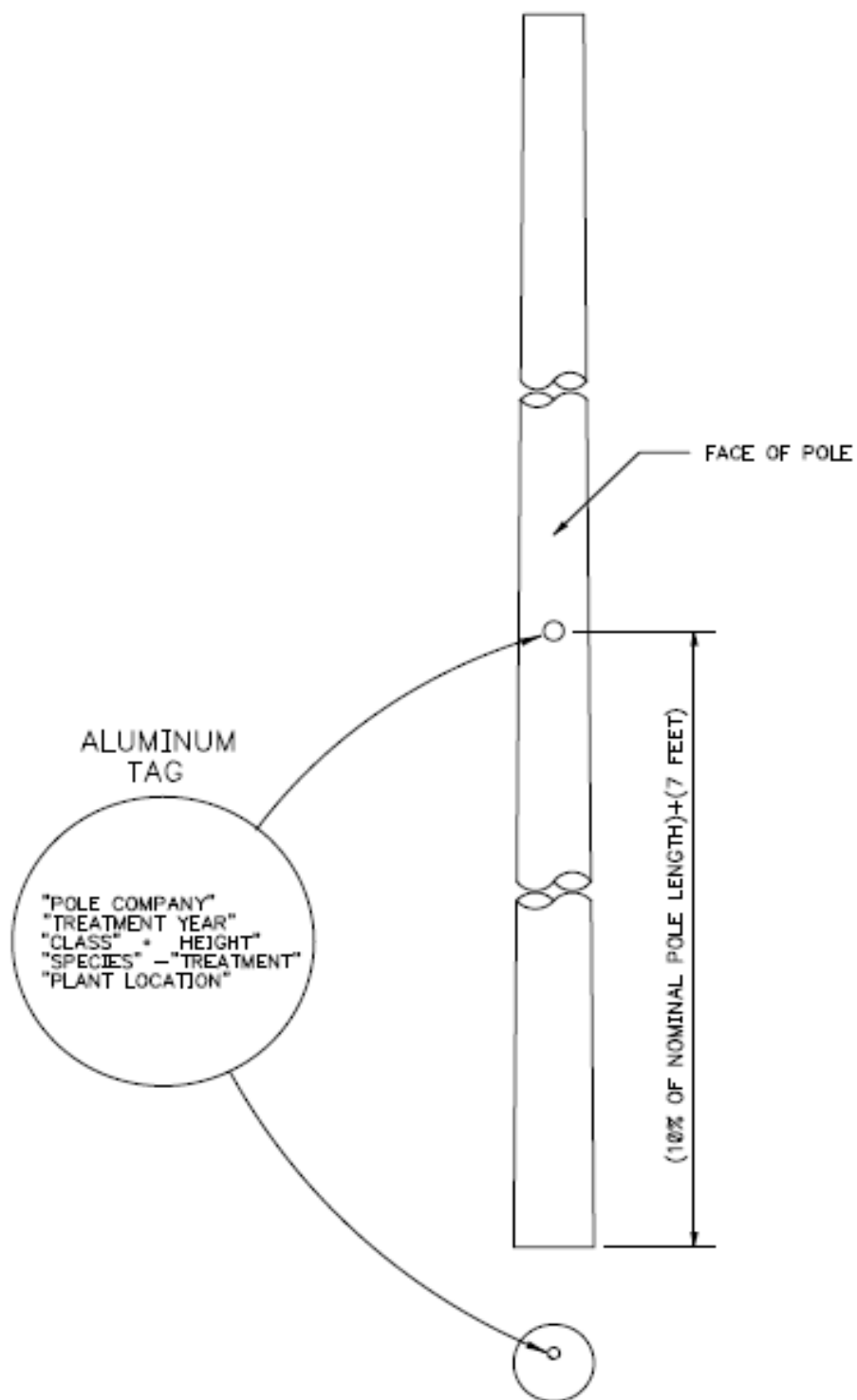
The District reserves the right either to make an award which in the judgement of the District is in its best interest or at the District's discretion to reject all bids and to waive any informalities in bids received.

### **15. DELIVERY AND REJECTION**

All poles shall be shipped f.o.b. destination to 203 Olds Station Road, Wenatchee, WA. 98801, unless expressly stated in the Purchase Order. The delivery will be accepted Monday through Friday between the hours of 9:00 am and 3:00 pm. Please call the Warehouse Forman at (509) 661-4893 or (509) 661-4287, 24 hours prior to delivery.

The supplier can increase or decrease quantity to facilitate truckload capacities with prior approval.

Rejection: Poles not conforming to this specification and poles received damaged or broken shall be rejected. The supplier shall either replace such rejected poles with poles complying with this specification at his own expense, or shall allow credit for such rejected poles.



## 16. SPECIFICATIONS REVISIONS LOG

#	Date	Description
1	12/29/05	Added Specifications Revision Log
2	12/29/05	Renumbered Spec from 2100.0050 to 1100.01
3	6/26/07	Added drilled hole location tolerance.
4	1/30/2015	Removed Doug Fir
5	7/20/2017	Removed Pre Drilling For All Poles
6	5/29/2024	Butt treat 60' and below