



**MATERIAL SPECIFICATION FOR
WOODEN POLES**

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2420.01 SCOPE

This specification covers the requirements for wooden poles and reinforcing stubs.

2420.01.01 Specification Significance and Use

This specification is written as a municipal-oriented specification. Municipal-oriented specifications are developed to reflect the administration, testing, and payment policies, procedures, and practices of many municipalities in Ontario.

Use of this specification or any other specification shall be according to the Contract Documents.

2420.01.02 Appendices Significance and Use

Appendices are not for use in provincial contracts as they are developed for municipal use, and then, only when invoked by the Owner.

Appendices are developed for the Owner's use only.

Inclusion of an appendix as part of the Contract Documents is solely at the discretion of the Owner. Appendices are not a mandatory part of this specification and only become part of the Contract Documents as the Owner invokes them.

Invoking a particular appendix does not obligate an Owner to use all available appendices. Only invoked appendices form part of the Contract Documents.

The decision to use any appendix is determined by an Owner after considering their contract requirements and their administrative, payment, and testing procedures, policies, and practices. Depending on these considerations, an Owner may not wish to invoke some or any of the available appendices.

2420.02 REFERENCES

When the Contract Documents indicate that municipal-oriented specifications are to be used and there is a municipal-oriented specification of the same number as those listed below, references within this specification to an OPSS shall be deemed to mean OPSS.MUNI, unless use of a provincial-oriented specification is specified in the Contract Documents. When there is not a corresponding municipal-oriented specification, the references below shall be considered to be the OPSS listed, unless use of a provincial-oriented specification is specified in the Contract Documents.

This specification refers to the following standards, specifications, or publications:

CSA Standards

O15-15	Wood Utility Poles and Reinforcing Stubs
O80 Series-15	Wood Preservation

2420.05 MATERIALS

2420.05.01 Wood Species

Wood species of poles and reinforcing stubs shall be western red cedar, red pine, jack pine, lodgepole pine, and southern yellow pine (i.e., long leaf, short leaf, loblolly, and slash).

2420.05.02 Quality of Poles Before Treatment

Physical properties of western red cedar, red pine, jack pine, lodgepole pine, and southern yellow pine shall be according to CAN/CSA O15.

2420.05.03 Dimensions

Pole dimensions shall be according to CAN/CSA O15.

Pole class and length shall be as specified in the Contract Documents and the Pole Substitution subsection.

2420.05.04 Pole Substitution

If a pole of the desired class and length is not available, a pole of equal or greater ground line circumference may be substituted, provided any excess length is cut from the top.

2420.05.05 Preservatives

Preservatives shall be according to CAN/CSA O80 Series.

2420.07 PRODUCTION

2420.07.01 Preservation Treatment

2420.07.01.01 Preparation of Poles

Preparation of poles and reinforcing stubs for the preservative treatment shall be according to CAN/CSA O80 Series.

2420.07.01.02 Preservation Options

Western red cedar shall be butt treated according to CAN/CSA O80 Series to a length that brings the treatment to 300 mm above the ground line.

Red pine, jack pine, lodgepole pine, and southern yellow pine shall be full length treated according to CAN/CSA O80 Series.

2420.07.01.03 Preservative Retention

Penetration of the preservative shall be according to CAN/CSA O80 Series.

2420.07.02 Marking

Each pole shall have an identification marking. For poles up to 15.0 m in length, the marking shall be located 3 m from the butt of the pole. For poles greater than 15.0 m in length, the marking shall be located 5 m from the butt of the pole. Poles shall be legibly and permanently marked with the following information in letters a minimum of 16 mm high:

- a) Class and length.
- b) Species.
- c) Manufacturer identification.
- d) Year in which pole was treated (i.e., yyyy).

2420.07.03 Shipping

The Contractor shall advise the Owner of the shipping date 3 Business Days prior to delivery.

2420.08 QUALITY ASSURANCE

2420.08.01 Inspection

All work is subject to an inspection by the Owner's representative prior to shipment.

The Owner shall be notified a minimum of 1 Business Day in advance of the date that the fabrication of the poles is to commence.

The Owner's representative shall have free access to the place of fabrication for the purpose of inspecting and examining plant records; certificates; materials used; fabrication process; and to make any tests as may be considered necessary, while work on the poles is being performed.

2420.09 OWNER PURCHASE OF MATERIAL

2420.09.01 Shipment

The supplier shall advise the Owner of the shipping date 3 Business Days prior to delivery.

2420.09.02 Measurement and Payment

For measurement purposes, a count shall be made of the number of wooden poles and reinforcing stubs delivered and accepted.

Payment at the price specified in the purchasing order shall be for the supply of wooden poles and reinforcing stubs delivered to the destination on the date and time specified.

The cost of all testing, except that performed in the Owner's laboratory, shall be included in the price.

**Appendix 2420-A, April 2019
FOR USE WHILE DESIGNING MUNICIPAL CONTRACTS**

Note: This is a non-mandatory Commentary Appendix intended to provide information to a designer, during the design stage of a contract, on the use of the OPS specification in a municipal contract. This appendix does not form part of the standard specification. Actions and considerations discussed in this appendix are for information purposes only and do not supersede an Owner's design decisions and methodology.

Designer Action/Considerations

The designer should specify the following in the Contract Documents:

- Class and length of poles. (2420.05.03)

The designer should ensure that the General Conditions of Contract and the 100 Series General Specifications are included in the Contract Documents.

Related Ontario Provincial Standard Drawings

OPSD 2238.010 Wooden Pole in Earth