

## PART 1 - GENERAL

### 1.1 RELATED SECTIONS

- .1 Section 01 74 21 - Construction/Demolition  
Waste Management And Disposal.
- .2 Section 06 10 10 - Rough Carpentry

### 1.2 REFERENCES

- .1 Canadian Standards Association (CSA)
  - .1 CSA O80 Series-97, Wood Preservation.
  - .2 CSA O322-02, Procedure for Certification  
of Pressure-Treated Wood Materials for Use in  
Preserved Wood Foundations.

### 1.3 CERTIFICATES

- .1 For products treated with preservative by  
pressure impregnation submit following  
information certified by authorized signing  
officer of treatment plant:
  - .1 Information listed in AWPA M2 and  
revisions specified in CSA O80 Series-97  
Series, Supplementary Requirement to AWPA M2  
applicable to specified treatment.
  - .2 Moisture content after drying following  
treatment with water-borne preservative.

### 1.4 WASTE MANAGEMENT and DISPOSAL

- .1 Do not dispose of preservative treated wood  
through incineration or with other materials  
destined for recycling or reuse.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- .1 Preservative Treatment: Treat to CSA O80, for  
coastal waters.
  - .2 Ladder uprights, timber sheathing to have  
their ends cut and wheel guard chamfered as  
per drawings prior to treatment. Unnecessary  
field cutting will not be permitted.
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PART 3 - EXECUTION

<u>3.1 APPLICATION:</u>	.1	Treat to CSA 080.18 Series using CCA
<u>PRESERVATIVE</u>		preservative to obtain minimum net retention
		specified for Marine applications.

<u>3.2 APPLICATION:</u>	.1	Compli with AWPA M4 and revisions specified
<u>FIELD TREATMENT</u>		in CSA 080 Series-97 Series, Supplementary
		Requirements to AWPA M2.

## PART 1 - GENERAL

<u>1.1 RELATED SECTIONS</u>	.1	Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
	.2	Section 06 05 73 - Wood Treatment.
<u>1.2 REFERENCES</u>	.1	Canadian Standards Association (CSA) .1 CAN/CSA-G164-M92 (R1998), Hot Dip Galvanizing of Irregularly Shaped Articles. .2 CAN/CSA-O141-91 (R1999), Softwood Lumber.
	.2	National Lumber Grades Authority (NLGA) .1 Standard Grading Rules for Canadian Lumber 2000.
	.1	Lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
<u>1.3 QUALITY ASSURANCE</u>		
<u>1.4 MEASUREMENT FOR PAYMENT</u>	.1	Treated dimension timber supplied and installed for chocks, wales, bracing, sheathing, fenders, and other miscellaneous timber to complete the work will be measured in cubic metres (m3) of timber secured in place including all galvanized/stainless steel fastenings, plant, material, and labour.
	.2	Ladder - timber ladder uprights as shown including prefabricated galvanized steel ladder and: .1 for Type "A" ladders one(1) steel galvanized holdfast secured in place as specified will be measured by the unit. The item will include all galvanized/stainless steel fastenings. .2 for Type "B" ladders two(2) steel galvanized holdfasts secured in place as specified will be measured by the unit. The item will include all galvanized/stainless steel fastenings.
	.3	Treated dimension timber supplied and installed for wheel guards to complete the work will be measured in lineal metres (m) of

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| <u>1.4 MEASUREMENT<br/>FOR PAYMENT<br/>(Cont'd)</u> | .3 | (Cont'd)<br>timber secured in place including all<br>galvanized/stainless steel fastenings, plant,<br>material, and labour. |
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## PART 2 - PRODUCTS

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| <u>2.1 MATERIALS</u> | .1 | Use timber graded and stamped in accordance<br>with applicable grading rules and standards of<br>Associations or Agencies approved to grade<br>lumber by Canadian Lumber Standards<br>Administration Board of CSA.   |
|                      | .2 | Species<br>.1 Wheelguard and wheelguard blocks:<br>Hemlock or Douglas Fir, (CCA Treated).<br>.2 Decking and Sheathing: Hard wood<br>Sheathing Birch or Maple<br>.3 Structural timber species: Hemlock or<br>Douglas Fir (CCA Treated).<br>.4 Ladder uprights and sheathing: Hemlock<br>or Douglas Fir, (CCA Treated).<br>.5 Grade: No.1 Structural Grade with<br>maximum of 20% of a lesser grade. |

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| <u>2.2 WOOD<br/>PRESERVATIVE</u> | .1 | In accordance with Section 06 05 73. |
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## PART 3 - EXECUTION

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| <u>3.1 INSTALLATION</u> | .1 | Comply with requirements of NBC 1995 Part 9<br>supplemented by following paragraphs. |
|                         | .2 | Install members true to line, levels and<br>elevations, square and plumb.            |
|                         | .3 | Construct continuous members from pieces of<br>longest practical length.             |
|                         | .4 | Install spanning members with "crown-edge"<br>up.                                    |
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3.2 FIELD CUTTING  
TREATED TIMBER

- .1 Field cuts are to be minimal to suit field conditions. Follow best practices by cutting and field preserving treated timber in one location over a ground sheet and collect all saw dust, scraps and drippings for disposal at an approved disposal site.
- .2 Treat, in field, cuts and damage to surface of treated material with an appropriate preservative as described in CSA O80 Series-97. Ensure that damaged areas such as abrasions, nail and spike holes are thoroughly saturated with field treatment solutions as per CSA O80 Series-97.
- .3 Treat bolt holes, cut-offs and field cuts in accordance with CSA O80 Series-97.

3.3 WHEELGUARDS AND  
WHEELGUARD CHOCKS

- .1 Wheelguard timbers to be 200 mm by 200 mm and will be in minimum lengths 4880 mm or as specially required with butt joints made over wheelguard chocks sized as shown on the drawings. Wheelguard timbers to be chamfered on top, 25 mm on each horizontal and vertical surface.
- .2 Wheelguard chocks will be installed at 1500 mm on centres as support for wheelguard.
- .3 Wheelguard will be secured through wheelguard blocking, configuration shown on sketch.

3.4 LADDERS

- .1 Supply and install ladders on face of wharf where specified by the Department Representative.
- .2 Ladder uprights to be 250 x 250 mm and installed from wheel guard elevation and extend a distance as to have a minimum of two(2) full rung below L.N.T. Uprights to be bevelled at on top and bottom as shown on drawings.
- .3 Secure timber uprights as shown on drawings.

- 3.5 TIMBER WALE .1 Install new Timber wale as shown on drawings or as directed by the Departmental Representative.
- .2 Secure wale to bearing piles with 25 mm diameter machine bolts and as shown on drawings.
- .3 Do not notch or cut wale to provide straight face. Blocking/shims will installed as required or as directed by the Departmental Representative.
- 3.6 TIMBER SHEATHING .1 Supply and install new 100 x 150 x 4270 mm long sheathing as indicated.
- .2 Secure each sheathing as shown on drawings.
- 3.7 TIMBER DIAGONAL BRACING .1 Supply and install new 150 x 200 diagonal bracing as indicated.
- .2 Secure each bracing as shown on drawings.