PACHENA POINT LIGHTHOUSE TOWER REFURBISHMENT Canadian Coast Guard



PACHENA POINT LIGHTHOUSE TOWER REFURBISHMENT

STRUCTURAL

WSP

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Email: randy.emery@genivar.com
Contact: Randy Emery

DWG # DESCRIPTION

S000 COVER SHEET

S001 FLOOR FRAMING PLANS

S002 FLOOR PLANS, BUILDING SECTION AND PANEL ELEVATION

S003 DETAILS AND SECTIONS
S004 DETAILS AND SECTIONS

BUILDING ENVELOPE

Goal Engineering Ltd
Unit #9 - 755 Vanalman Avenue
Victoria, BC, V8Z 3B8
Tel: (250) 744-3992
Fax: (604) 360-2166
Email: infor@goalengineering.com
Contact:

DWG # DESCRIPTION

D001 FLOOR FRAMING PLANS

D002 FLOOR PLANS AND BUILDING SECTION
D003 DETAILS AND SECTIONS

D004 BORON ROD PLACEMENT DETAILS

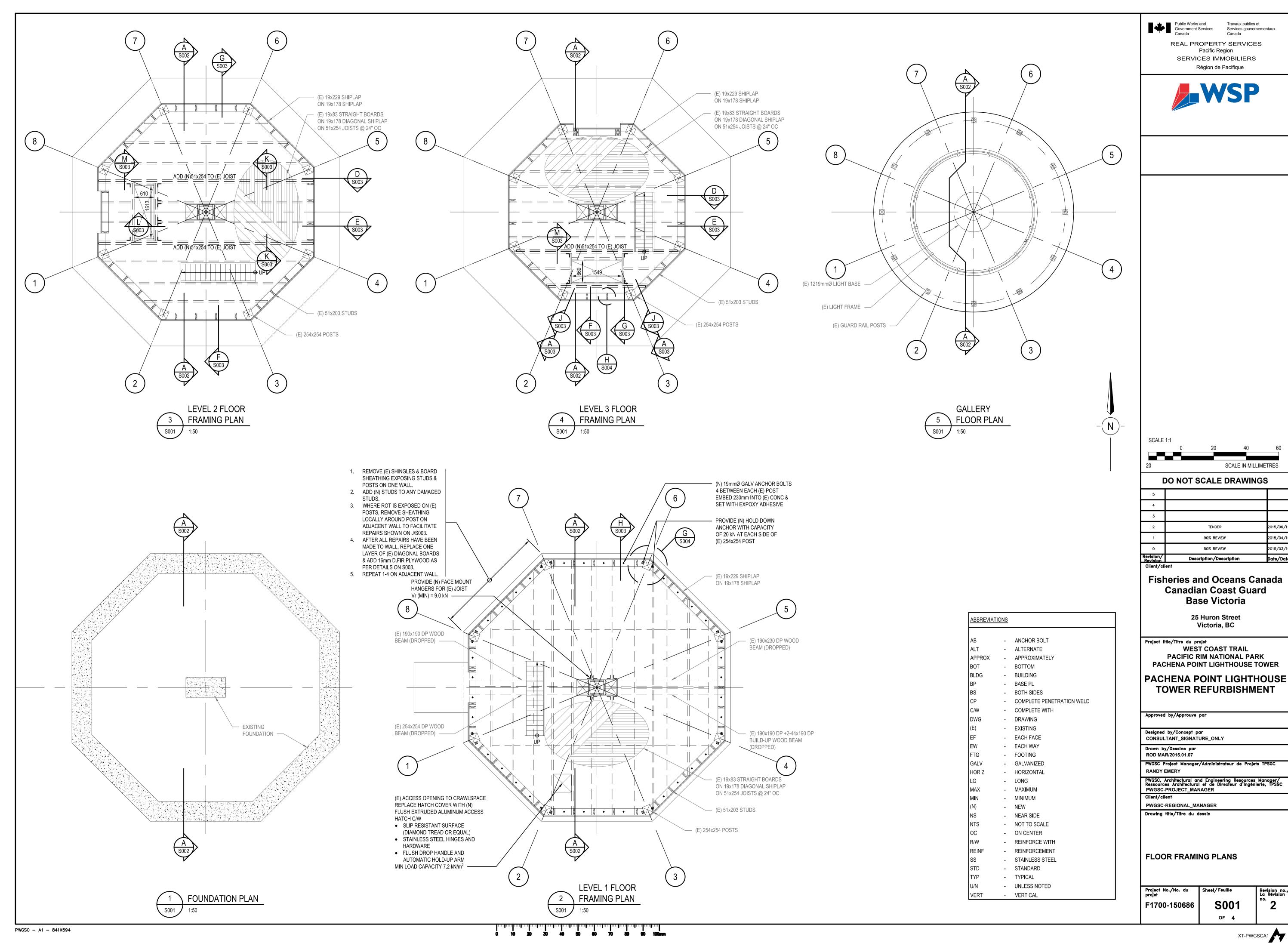
ISSUED FOR: **TENDER**

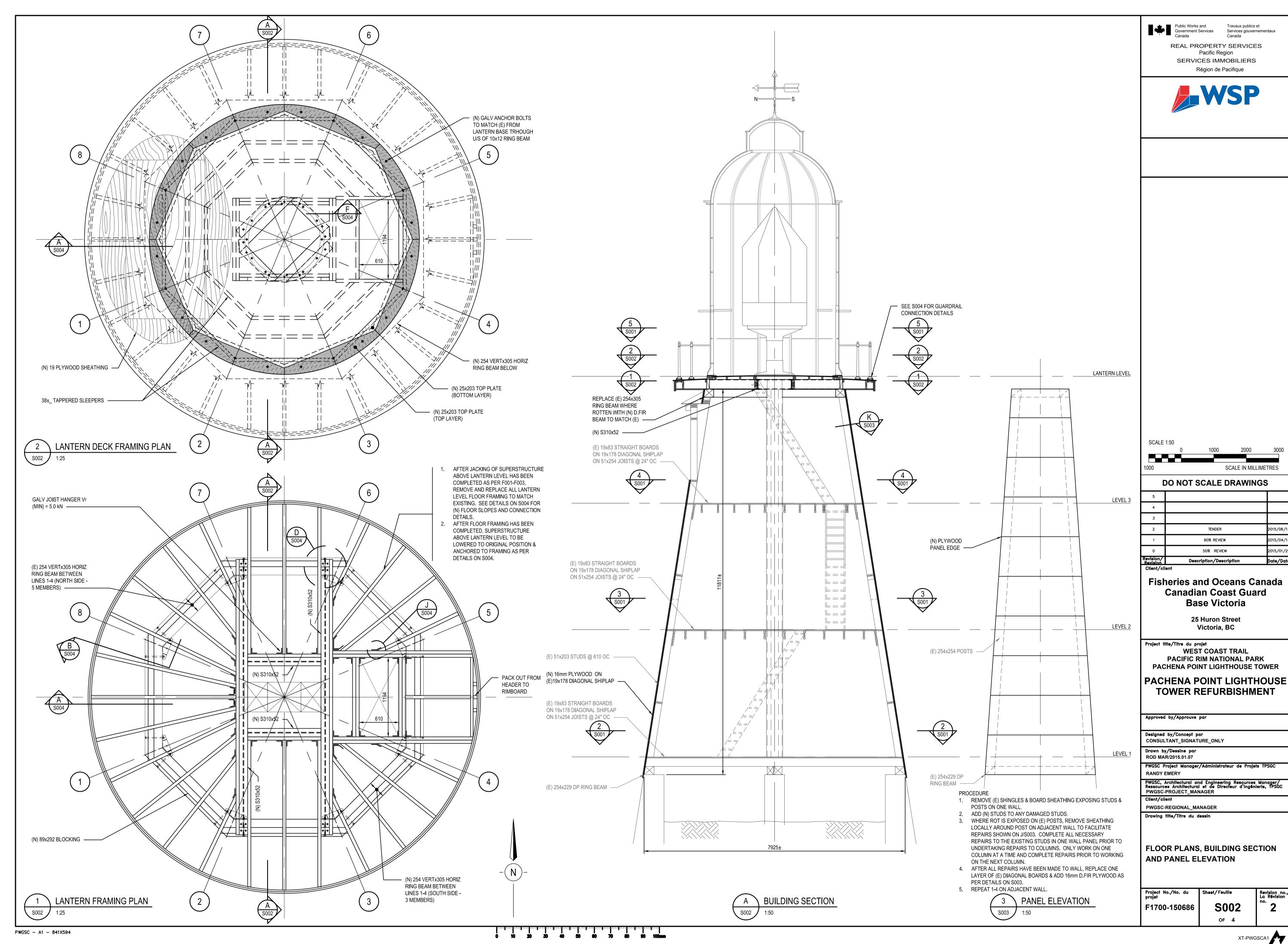
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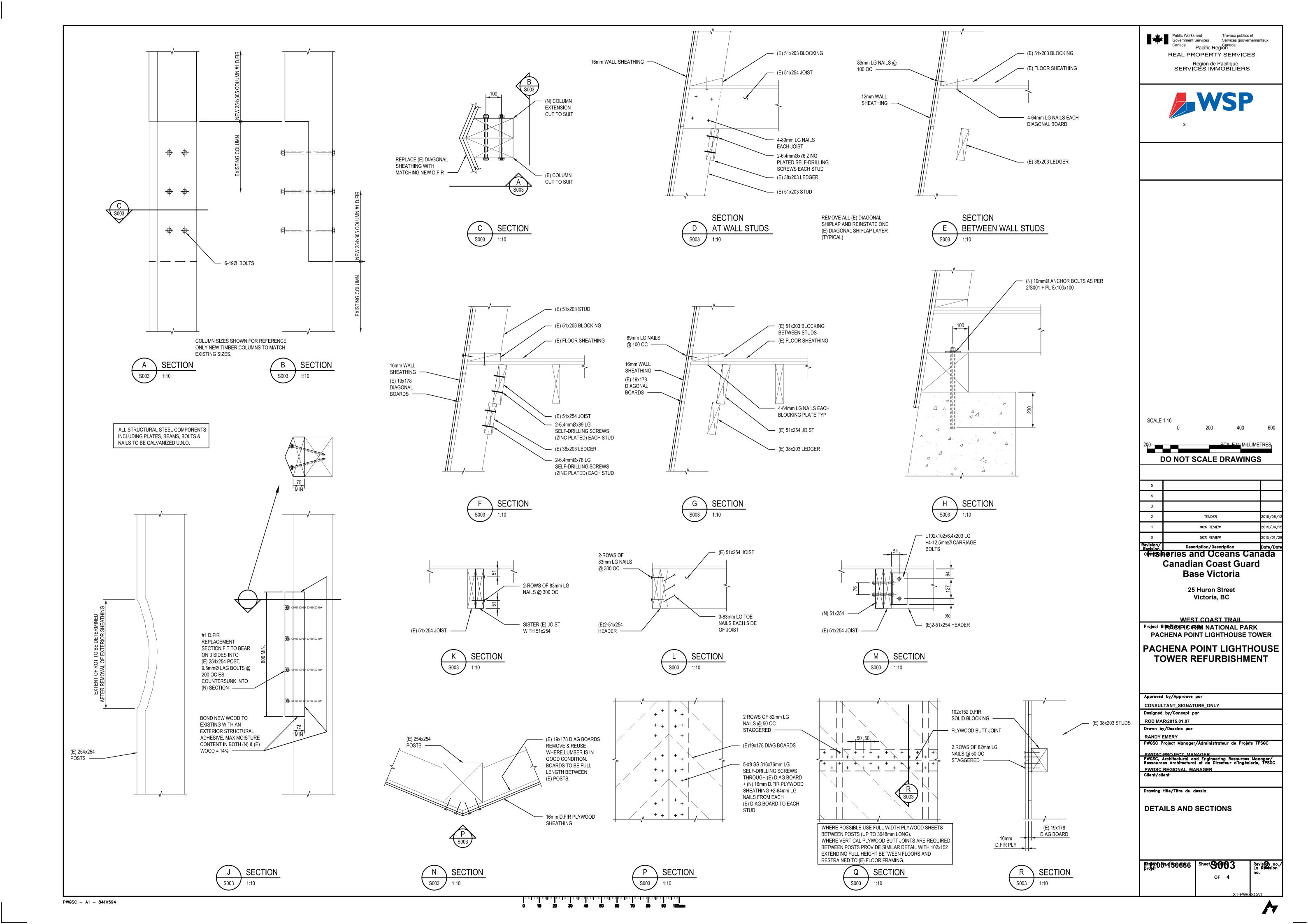
JUNE 12, 2015

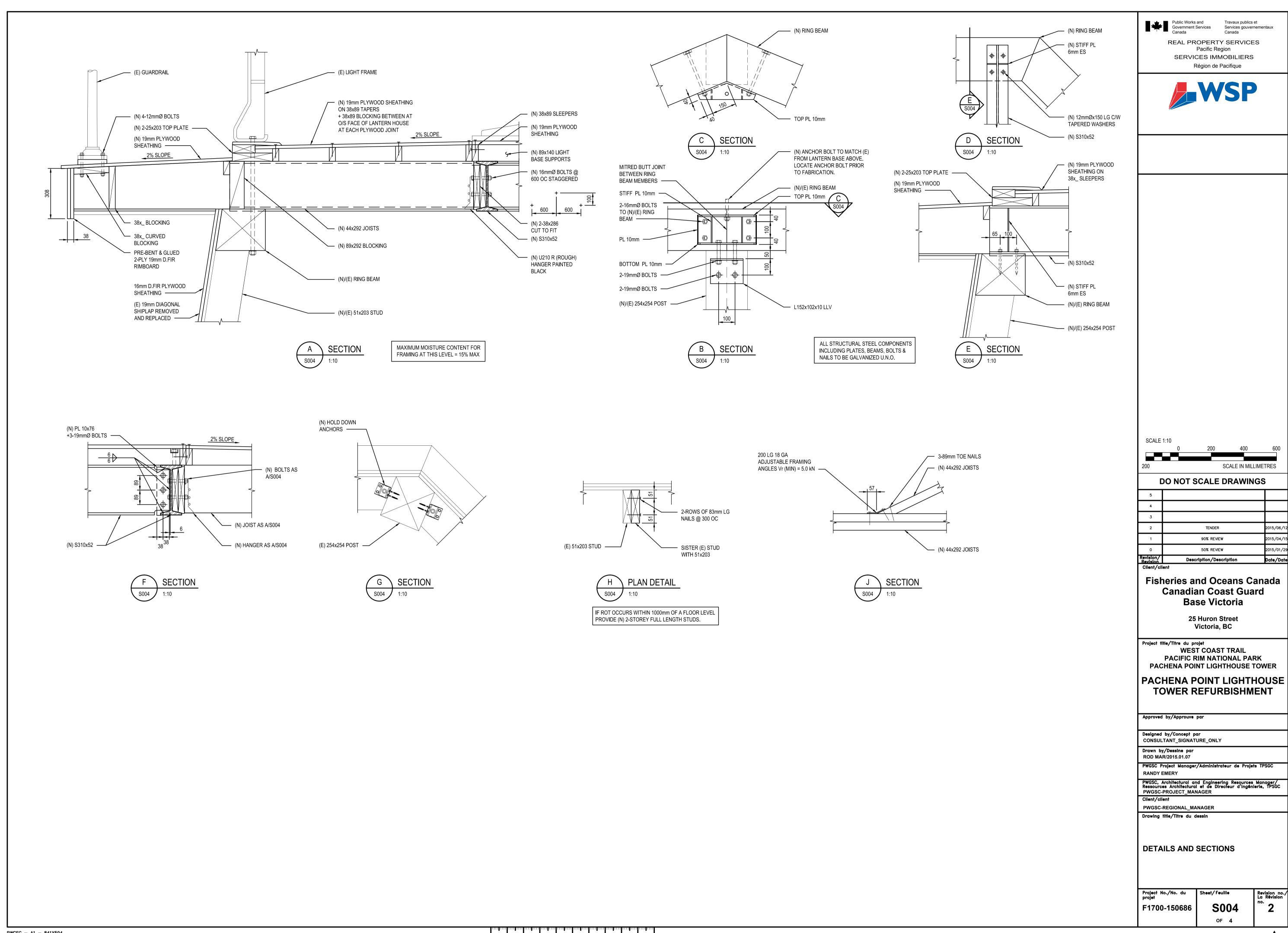
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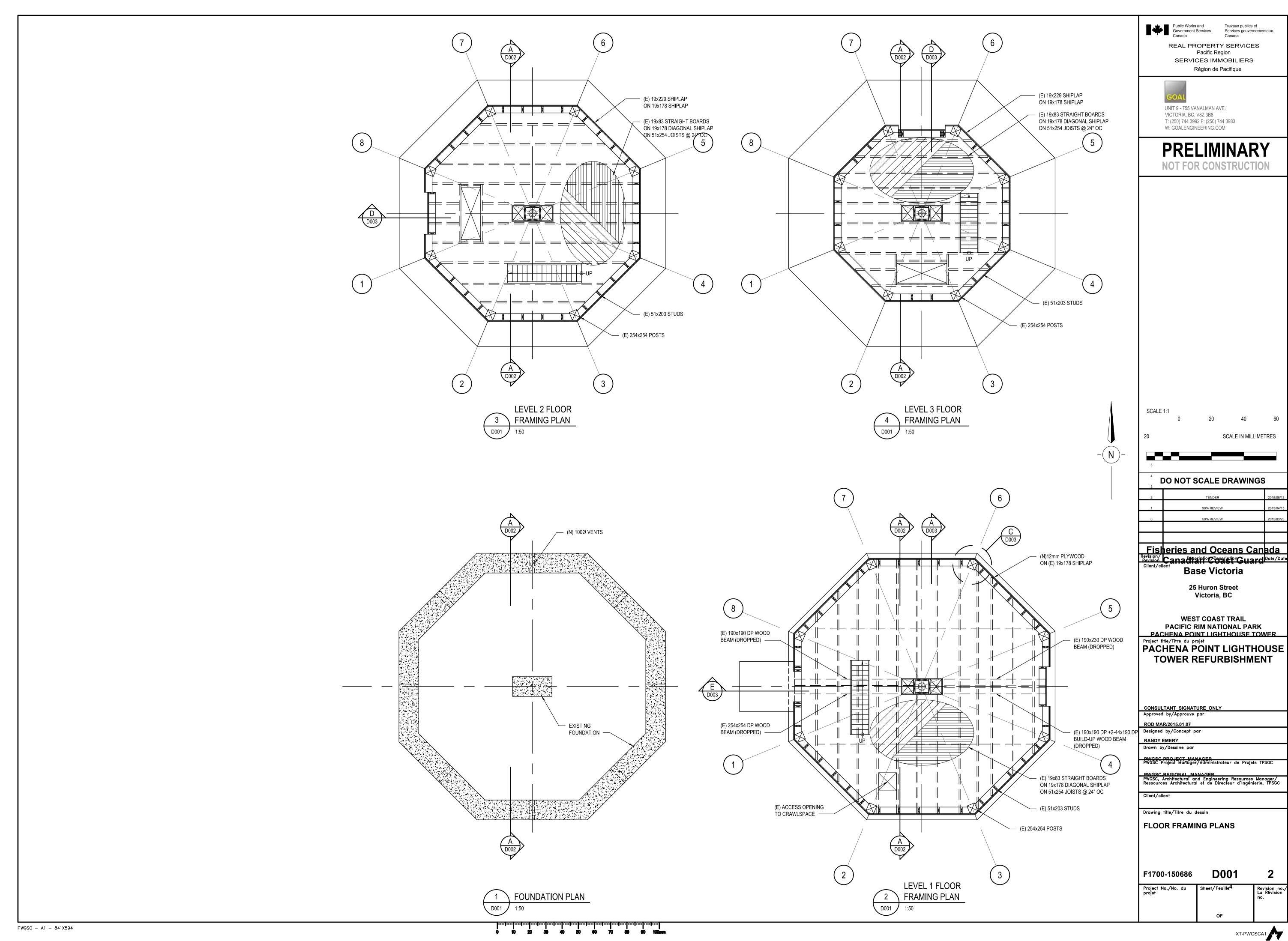


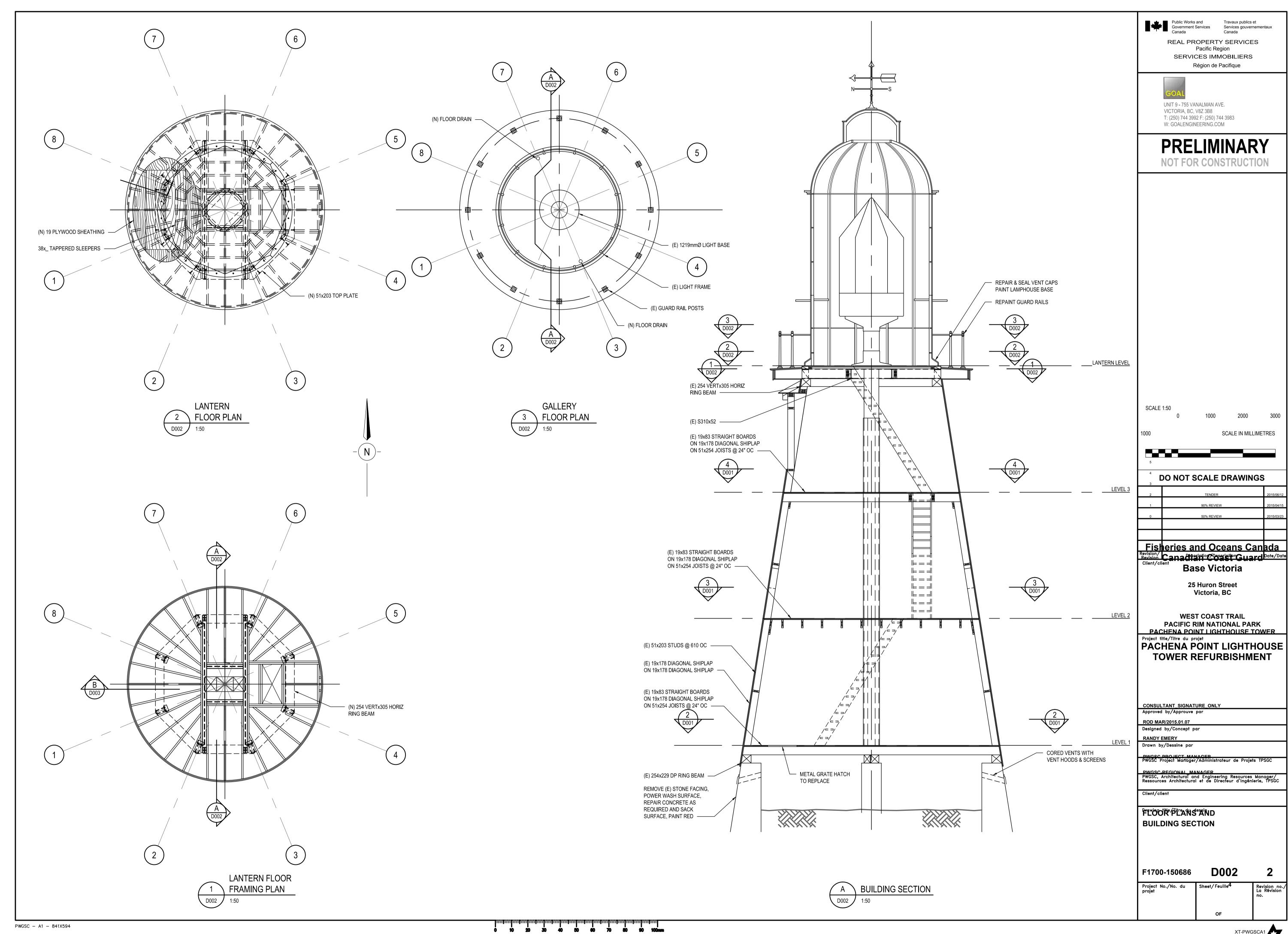




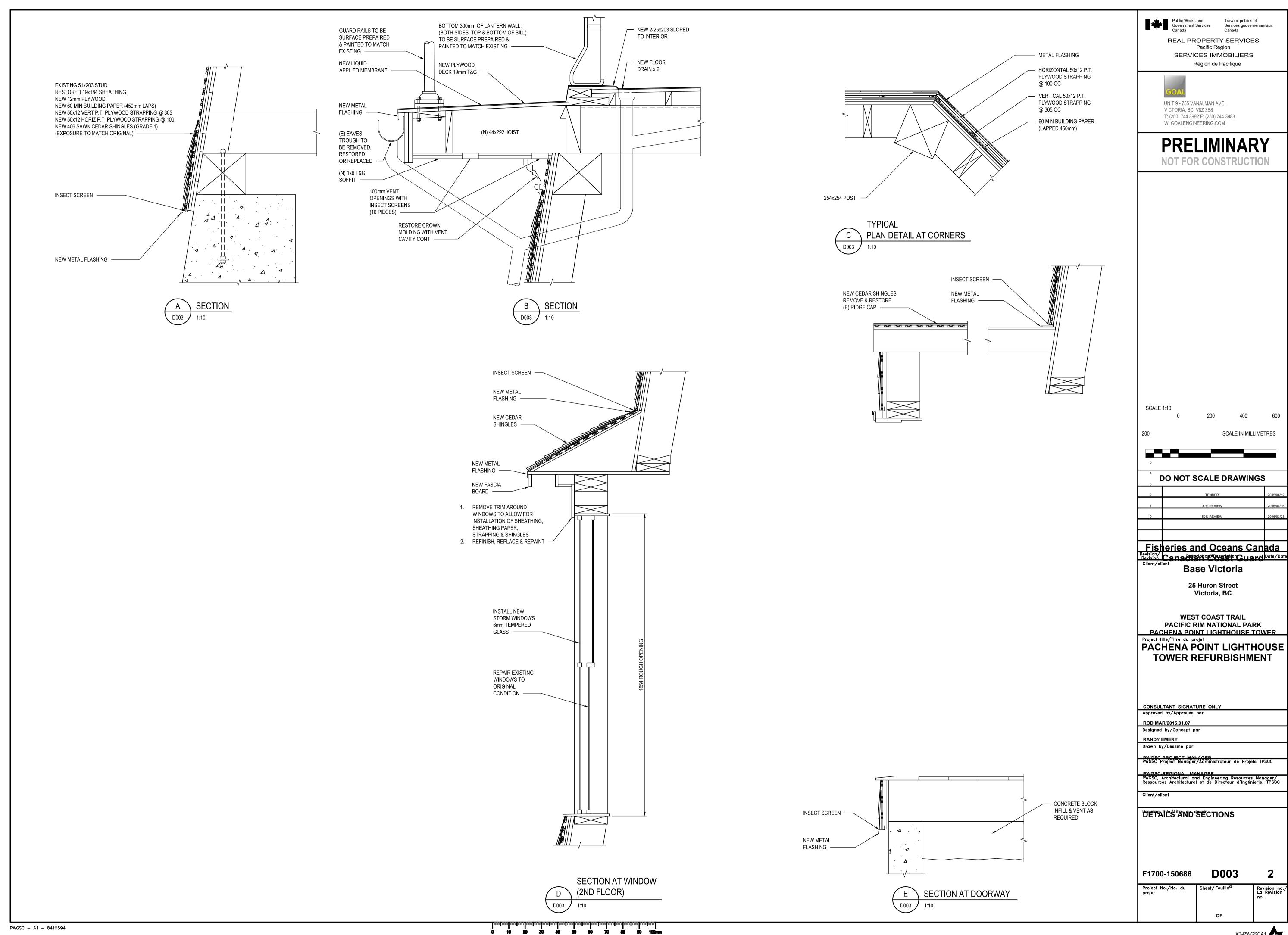


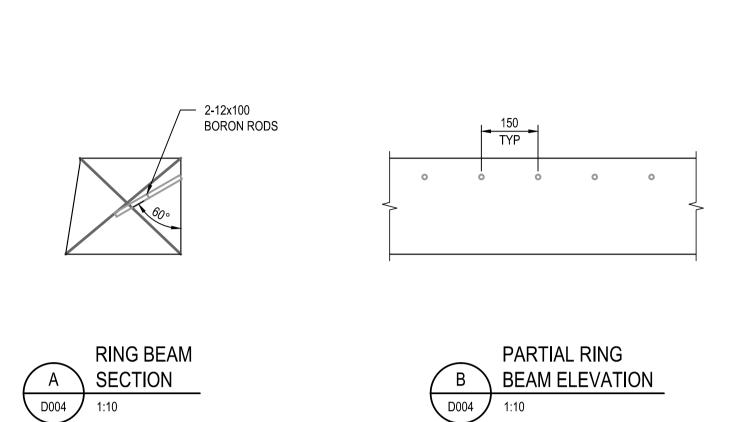


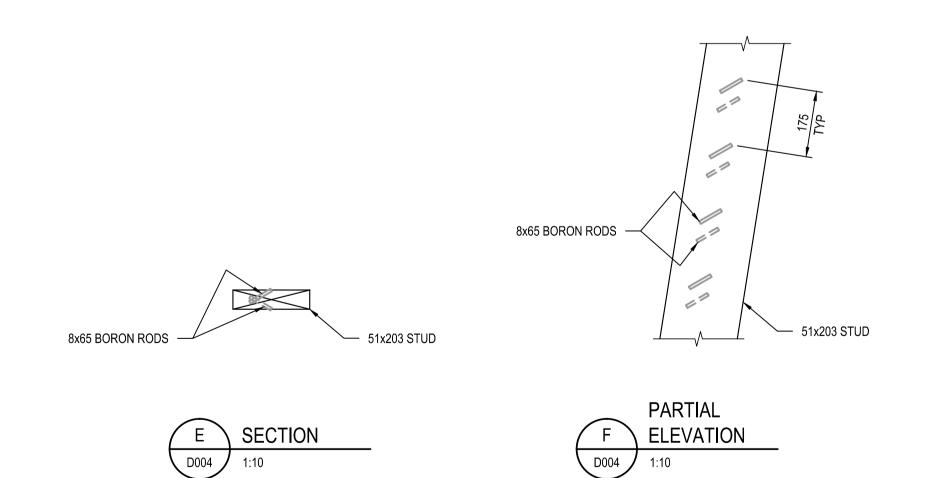




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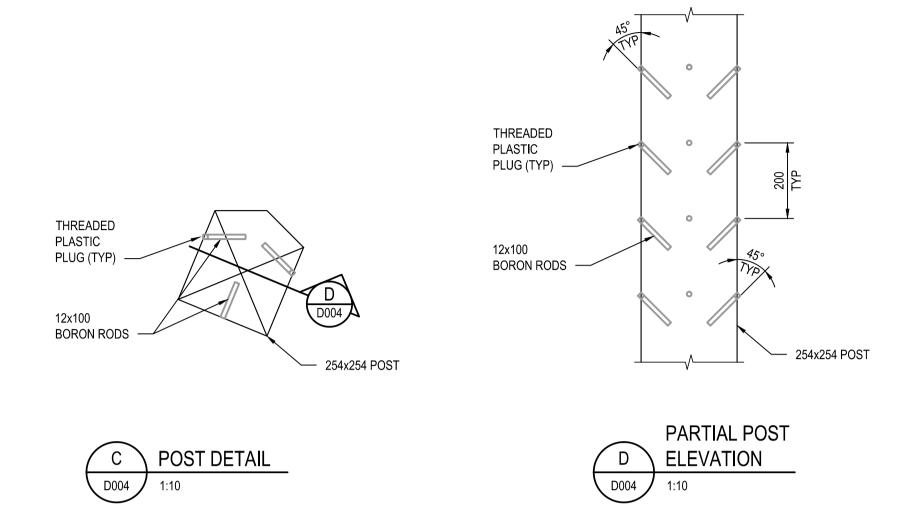


	TABLE 1. TYPICAL BORON ROD SIZE AND SPACING - EXAMPLE ONLY				
	MEMBER SIZE	BORON ROD SIZE	TYPICAL SPACING	DRILLED HOLE SIZE mm	
ſ	51 x 203	8 x 65	175 (Set of 2)	10	
Γ	51 x 305	8 x 65	125 (Set of 2)	10	
Γ	102 x 203	12 x 100	300 (Set of 2)	14	
ſ	305 x 305	12 x 100	200 (Set of 2)	14	
r	305 x 305	12 x 100	75 (Set of 2)	14	

NOTE: BORON ROD INSTALLATION LOCATIONS AS DIRECTED BY ENGINEER.





PRELIMINARY NOT FOR CONSTRUCTION

SCALE 1:10 0 200 400 600 200 SCALE IN MILLIMETRES

⁴ DO NOT SCALE DRAWINGS

3		
2	TENDER	2015/06/12
1	90% REVIEW	2015/04/15
0	50% REVIEW	2015/03/23

Fisheries and Oceans Canada

Revision Canadiaini Cosaisit Guard

Client/client

Base Victoria

25 Huron Street Victoria, BC

WEST COAST TRAIL
PACIFIC RIM NATIONAL PARK
PACHENA POINT LIGHTHOUSE TOWER

Project title/Titre du projet
PACHENA POINT LIGHTHOUSE
TOWER REFURBISHMENT

CONSULTANT_SIGNATURE_ONLY

ROD MAR/2015.01.07
Designed by/Concept par

Drawn by/Dessine par

PWGSC Project Manager/Administrateur de Projets IPSGC

PWGSC, Architectural and Engineering Resources Manage Ressources Architectural et de Directeur d'Ingénierie, TP

Client/client

BORON ROD dessin PLACEMENT DETAILS

F1700-150686 D004

Project No./No. du | Sheet/Feuille4

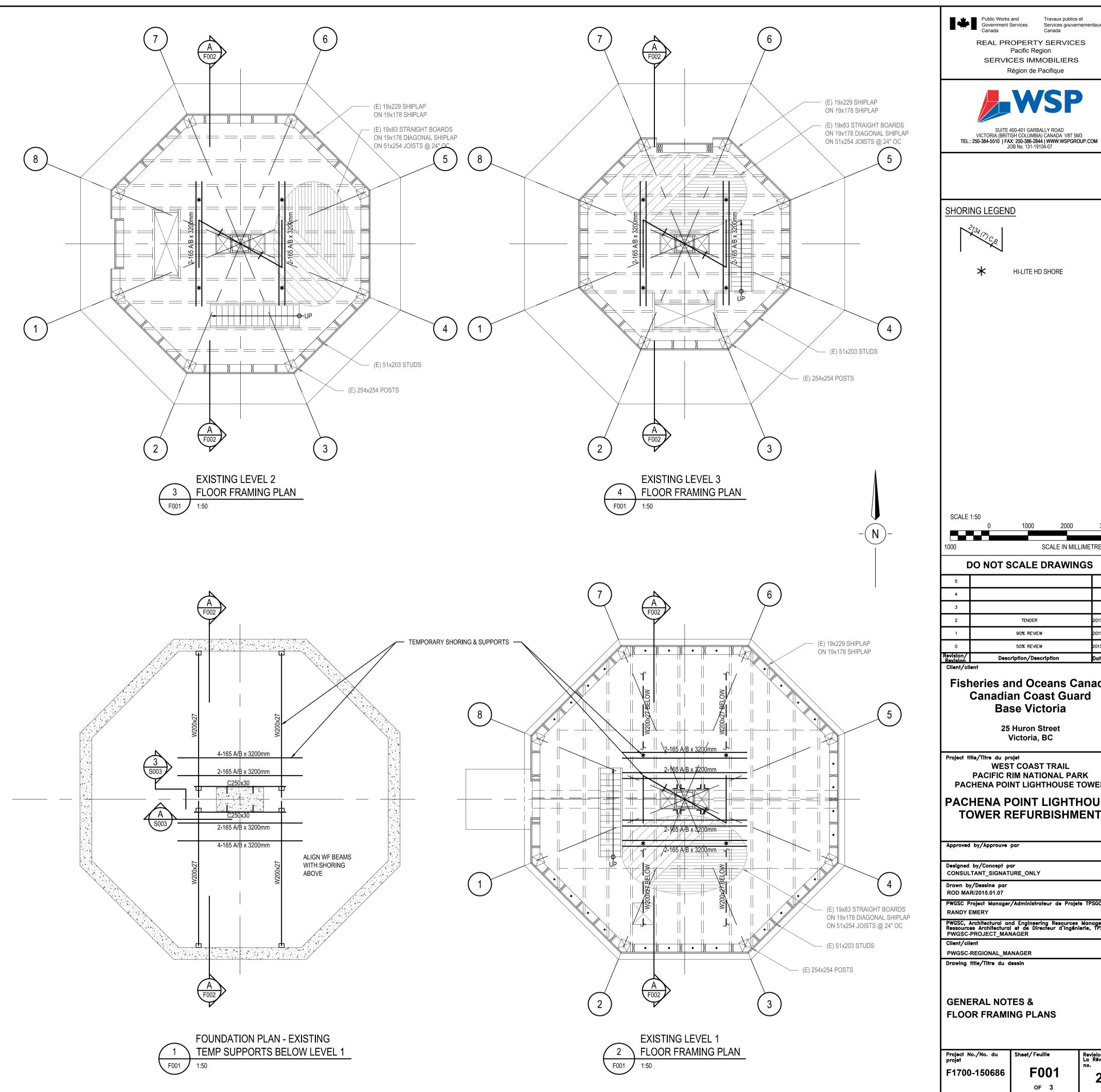
ct No./No. du Sheet/Feuille⁴ Revision no., La Révision no.

GENERAL NOTES

- 1. TEMPORARY SHORING DESIGNED FOR THE EXISTING IMPOSED LOADS AND IN ACCORDANCE WITH CSA 269.1.
- 2. TEMPORARY SHORING DESIGN BASED ON:
 - a. 50 PSF L.L. PLUS WEIGHT OF EXISTING FRAMING AND SUPERIMPOSED LOADS.
 - b. LATERAL LOAD EQUIVALENT TO 2% OF VERTICAL LIVE LOAD.
 - c. DEFLECTION OF 1/270 MAX.
 - d. ALL LUMBER TO BE #2 D. FIR OR BETTER. e. HEAVY DUTY SHORING FRAMES:
 - 1219mm WIDE x 1219mm / 1829mm / 2438mm HIGH (AS REQUIRED) MINIMUM SAFE WORKING LOAD = 44.5 kN/LEG
 - 1524mm, 2134mm & 3048mm DIAGONAL CROSS BRACING AS SHOWN ON PLAN.
 - f. #2 SHORES: MINIMUM SAFE WORKING LOAD = 22.2 kN CAP. @ 3200mm EXTENSION.
 - g. JOISTS SUPPORTING SLAB AND SLAB BANDS TO BE 165mm "ALUMA-BEAM".
- h. STRINGERS TO BE 165mm "ALUMA-BEAM" SEE PLAN FOR DETAILS.
- STRINGERS TO BE CENTERED OVER SCREW JACKS AND POST SHORES. EACH END OF EACH STRINGER MUST BE TIED TO SUPPORT WITH AN 'ALUMA CLIP'. EACH POST SHORE MUST BE TIED TO STRINGER/JOIST WITH TWO 'ALUMA CLIPS'.
- 4. ALL FRAMES AND POST SHORES TO BE SET PLUMB.
- 5. CONTRACTOR TO CHECK ALL DRAWINGS AND DETAILS AND NOTIFY ENGINEER OF DISCREPANCIES OR CHANGES AT LEAST 24 HOURS PRIOR TO INSPECTION.

SUGGESTED CONSTRUCTION SEQUENCE - CONTRACTOR TO CONFIRM

- 1. PROVIDE SHORING AS SHOWN TO THE UNDERSIDE OF THE LANTERN HOUSE EXCEPT FOR THE SUPPORT CRIPPLES BELOW THE LVL BEAMS ON THE FACE OF THE EXISTING COLUMNS AS SHOWN ON B/F003
- 2. COMPLETE ALL STRUCTURAL WORK AS SHOWN ON S001-S004 BELOW THE RING BEAM AT THE LANTERN LEVEL. COMPLETE ALL NECESSARY REPAIRS TO THE EXISTING STUDS IN ONE WALL PANEL PRIOR TO UNDERTAKING REPAIRS TO COLUMNS. ONLY WORK ON ONE COLUMN AT A TIME AND COMPLETE REPAIRS PRIOR TO WORKING ON THE NEXT COLUMN.
- 3. AFTER ALL COLUMNS HAVE BEEN REPAIRED INSTALL THE SUPPORT CRIPPLES BELOW THE LVL BEAMS ON THE FACE OF THE EXISTING COLUMNS AS SHOWN ON B/F003.
- 4. RAISE LANTERN HOUSE, LENS AND LENS PEDESTAL TO THE MINIMUM WORKING HEIGHT. PROVIDE TEMPORARY LATERAL SUPPORT FOR THE LANTERN HOUSE AND LENS AS THEY ARE BEING RAISED. SECURE FRAMING IN PLACE AS SHOWN ON A/F003.
- 5. COMPLETE ALL STRUCTURAL WORK AS SHOWN ON S001-S004 ABOVE THE RING BEAM AT THE LANTERN LEVEL. COMPLETE ALL FINISHING WORK AROUND THE BASE OF THE LANTERN HOUSE AND BUILDING ENVELOPE WORK AT THE LANTERN LEVEL AS SHOWN ON D001-D004.
- 6. LOWER THE LANTERN HOUSE, LENS AND LENS PEDESTAL TO THE PERMANENT SUPPORTS AND FIX IN PLACE AS PER THE DETAILS ON S001-S004. PROVIDE TEMPORARY LATERAL SUPPORT FOR THE LANTERN HOUSE AND LENS AS THEY ARE BEING LOWERED.
- 7. REMOVE ALL TEMPORARY SHORING.



Travaux publics et

Services gouvernementaux REAL PROPERTY SERVICES



HI-LITE HD SHORE



DO NOT SCALE DRAWINGS TENDER 90% REVIEW 50% REVIEW Description/Description

Fisheries and Oceans Canada Canadian Coast Guard **Base Victoria**

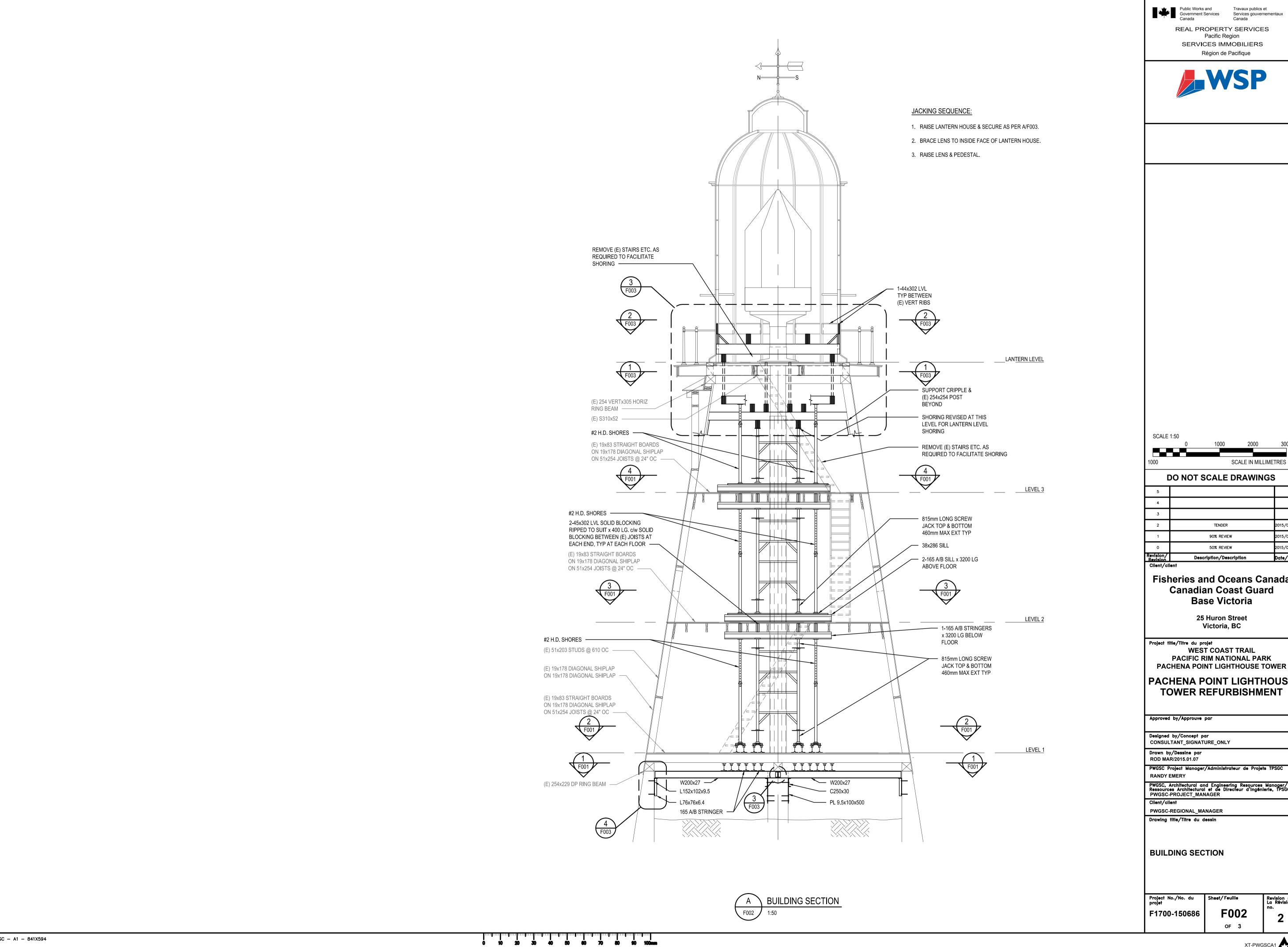
25 Huron Street Victoria, BC

WEST COAST TRAIL PACIFIC RIM NATIONAL PARK PACHENA POINT LIGHTHOUSE TOWER

PACHENA POINT LIGHTHOUSE TOWER REFURBISHMENT

PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPSGC PWGSC-PROJECT_MANAGER PWGSC-REGIONAL_MANAGER **GENERAL NOTES &** FLOOR FRAMING PLANS

OF 3



REAL PROPERTY SERVICES Pacific Region SERVICES IMMOBILIERS Région de Pacifique



SCALE IN MILLIMETRES

TENDER 90% REVIEW 50% REVIEW Description/Description	2015/06, 2015/04, 2015/03, Date/D
TENDER	2015/06
	SCALE DRAW

Fisheries and Oceans Canada **Canadian Coast Guard Base Victoria**

25 Huron Street Victoria, BC

WEST COAST TRAIL PACIFIC RIM NATIONAL PARK PACHENA POINT LIGHTHOUSE TOWER

PACHENA POINT LIGHTHOUSE TOWER REFURBISHMENT

CONSULTANT_SIGNATURE_ONLY PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPSGC PWGSC-PROJECT_MANAGER PWGSC-REGIONAL_MANAGER BUILDING SECTION

OF 3

