## **APPENDIX F**

**Detailed Equipment Drawings (R2)** 



Fibreco Export Terminal Enhancement Permit Application Document



## **APPENDIX F** Detailed Equipment Drawings & Specifications (R2)

The attached drawings are based on the current design for the Terminal Enhancement project. As the final detailed design is completed the equipment design and type may vary to improve flow, efficiency or environmental improvements.

All engineering will duly consider the national Building Code (2015), Geotechnical Investigation Reports, District of North Vancouver requirements and the Port of Vancouver.

Attached:	Engineering Letter of Compliance Flow Diagram General Arrangement & Section Drawings	<ul> <li>– VFPA and DNV Jurisdiction</li> <li>– VFPA and DNV Jurisdiction</li> </ul>
Enclosed:	Appendix F-A - Civil & Structural Drawings (R1) Appendix F-B - Mechanical Drawings (R1) Appendix F-C - Marine Structures Drawings (R1)	<ul> <li>DNV Jurisdiction</li> <li>VFPA and DNV Jurisdiction</li> <li>VFPA Jurisdiction</li> </ul>



July 11, 2016

Project No.: 15006

## Fibreco Export Inc.

1209 McKeen Avenue, North Vancouver, B.C. Canada V7P 3H9

## Attention: Glenn Dempster, Project Manager

Reference: Seismic considerations during Preliminary Design Phase of Terminal Enhancement Project

Dear Mr. Dempster

Thank you for your inquiry related to the seismic considerations undertaken by CWA for the Preliminary Engineering phase of the Terminal Enhancement Project (CWA Project # 15006) completed in December 2015. Our scope of work included preliminary design of new grain handling infrastructure including conveyors, transfer towers and silo supports.

All preliminary engineering design work for structural discipline was completed under the supervision of our Senior Structural Engineer Mr. Gordon Chao (P.Eng) and duly considered seismic loading as per National Building Code (2010). The design referenced GeoPacific Consultant Ltd.'s Geotechnical Investigation Report dated 16-Sep-2015 that was provided to us by Fibreco.

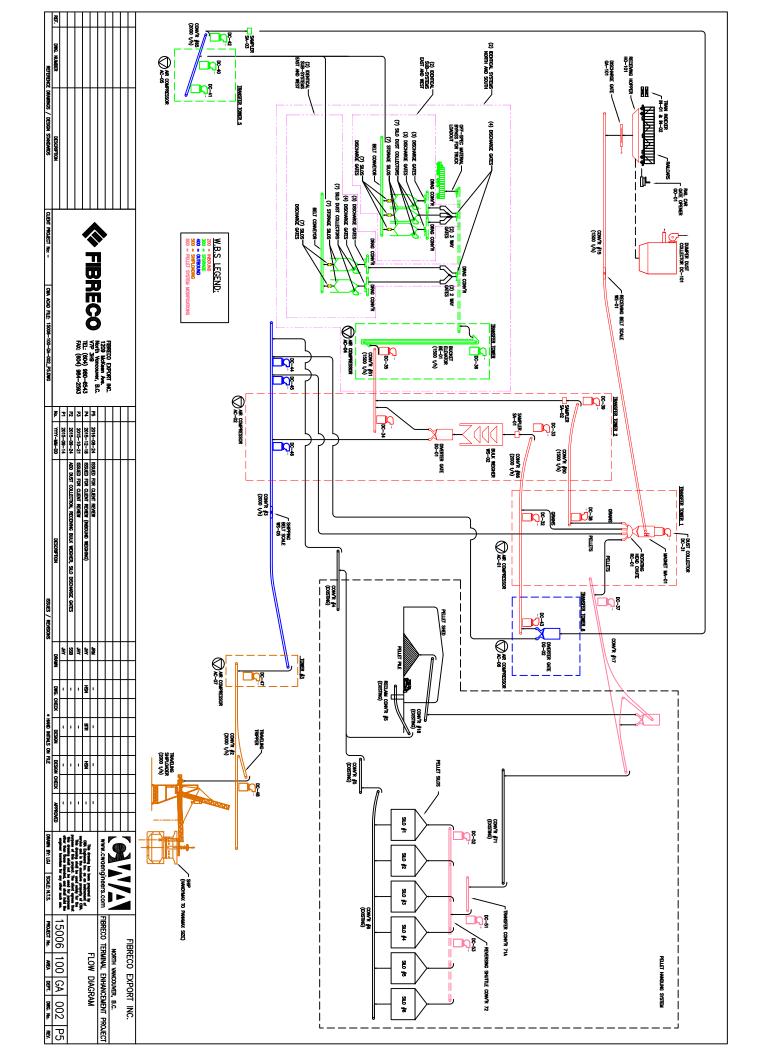
Should CWA be awarded detail design (Approved for Construction drawings) of these facilities, we will review and complete the design in accordance with latest applicable standards (NBC 2015 at the time of writing of this letter) and also provide applicable Schedules and Letters of Assurances as may be required for permitting purposes.

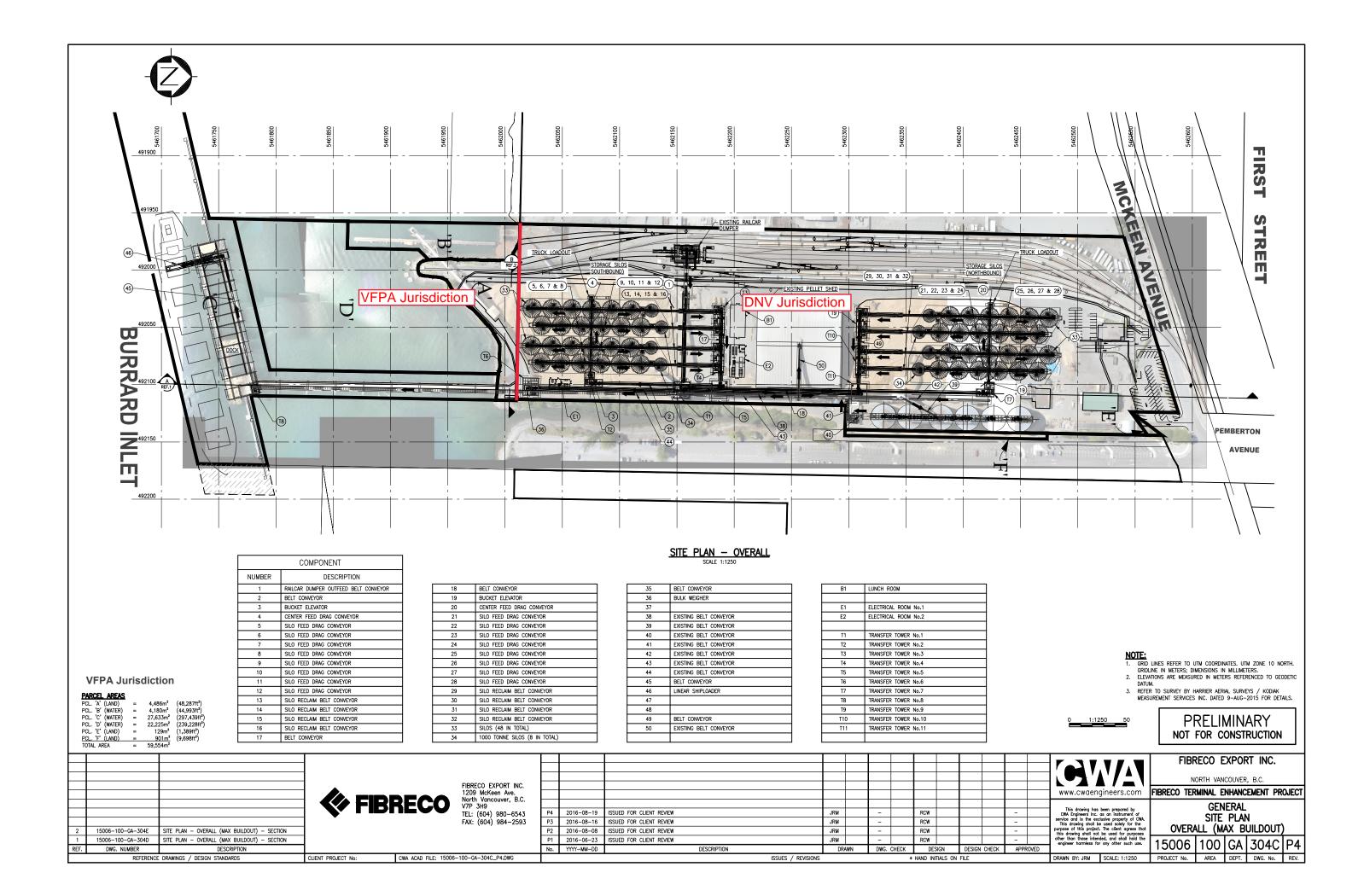
We trust that we have provided you with all the information that you have requested for this inquiry. Please feel free to contact us if you need any further information regarding this item.

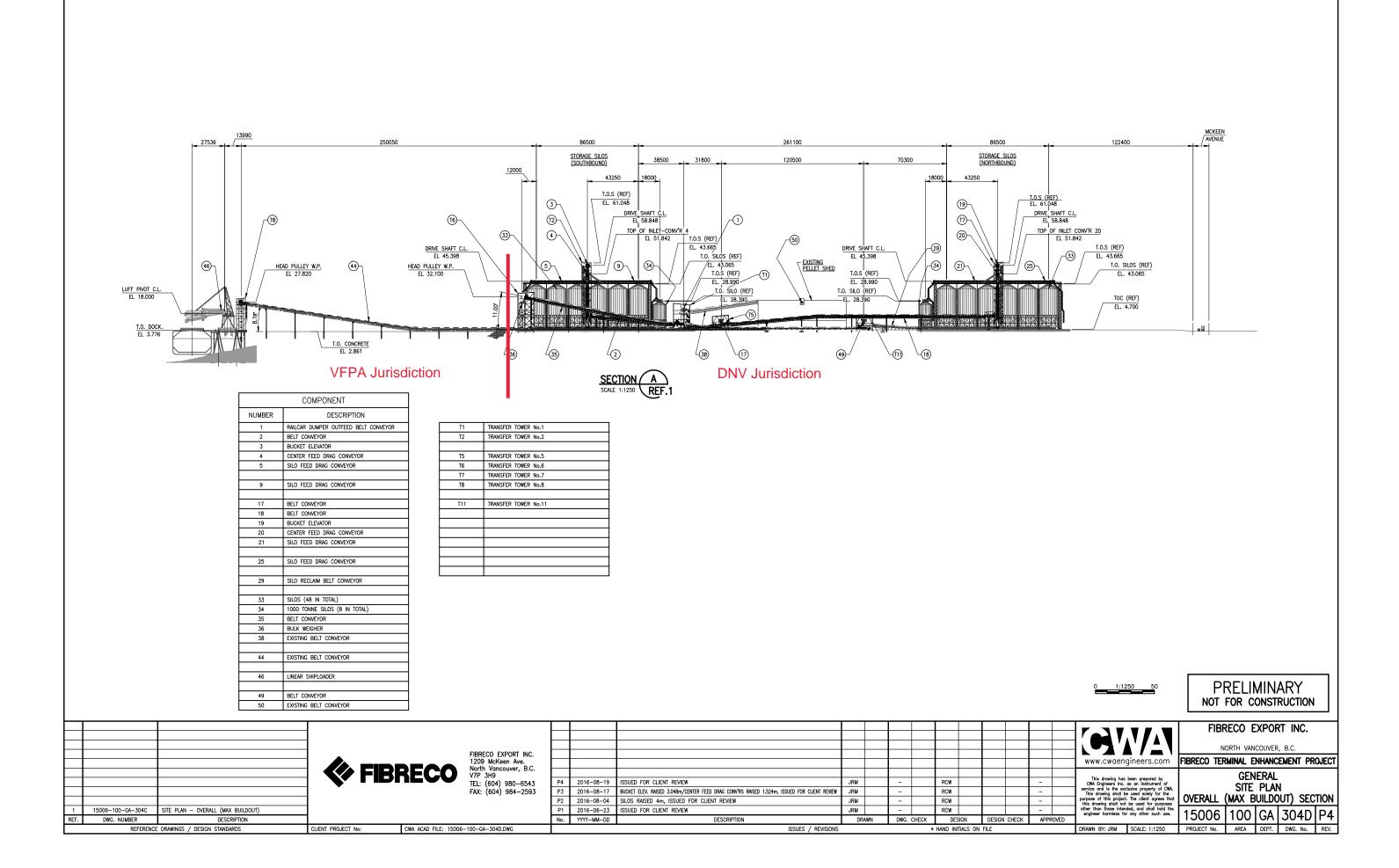
Yours truly, CWA Engineers Inc.

Steve Yee, P.Eng. Vice President, Engineering and Development Ph: 604-637-2275 steve.yee@cwaengineers.com









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	15006-100-GA-304C	SITE PLAN - OVERALL (MAX BUILDOUT)				P1	2016-08-19	ISSUED FOR CLIENT REVIEW		JRM		-		RCW		
RE	DWG. NUMBER	DESCRIPTION				No.	YYYY-MM-DD	DESCRIPTION		DR	AWN	DWG.	CHECK	DESIGN	DESIC	SN CH
	REFERENCE	E DRAWINGS / DESIGN STANDARDS	CLIENT PROJECT No:	CWA ACAD FILE: 1500	6-100-GA-304E_P1.DWG	ISSUES / REVISIONS * HAND INITI/					HAND INITIALS	AND INITIALS ON FILE				

	COMPONENT
NUMBER	DESCRIPTION
3	BUCKET ELEVATOR
4	CENTER FEED DRAG CONVEYOR
5	SILO FEED DRAG CONVEYOR
6	SILO FEED DRAG CONVEYOR
7	SILO FEED DRAG CONVEYOR
8	SILO FEED DRAG CONVEYOR
13	SILO RECLAIM BELT CONVEYOR
14	SILO RECLAIM BELT CONVEYOR
15	SILO RECLAIM BELT CONVEYOR
16	SILO RECLAIM BELT CONVEYOR
33	SILOS (48 IN TOTAL)
35	BELT CONVEYOR
36	BULK WEIGHER
44	EXISTING BELT CONVEYOR
T2	TRANSFER TOWER No.2
T6	TRANSFER TOWER No.8

