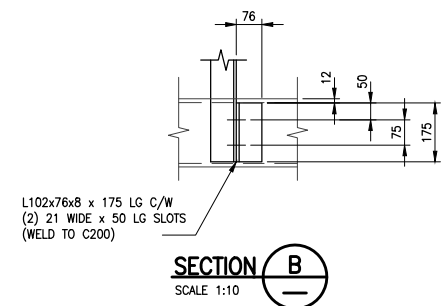
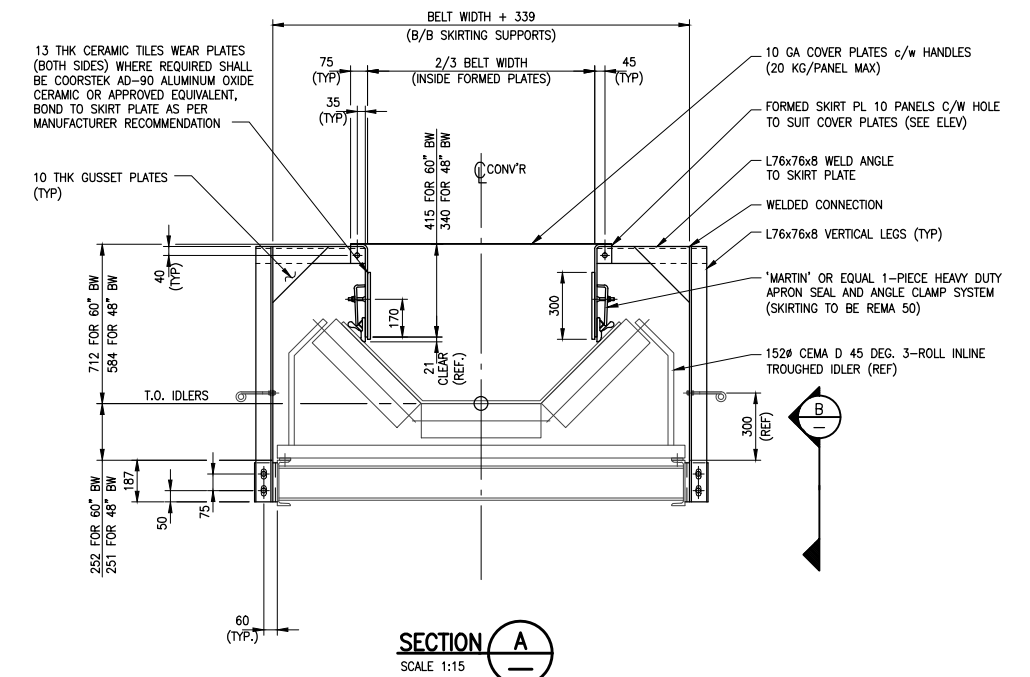
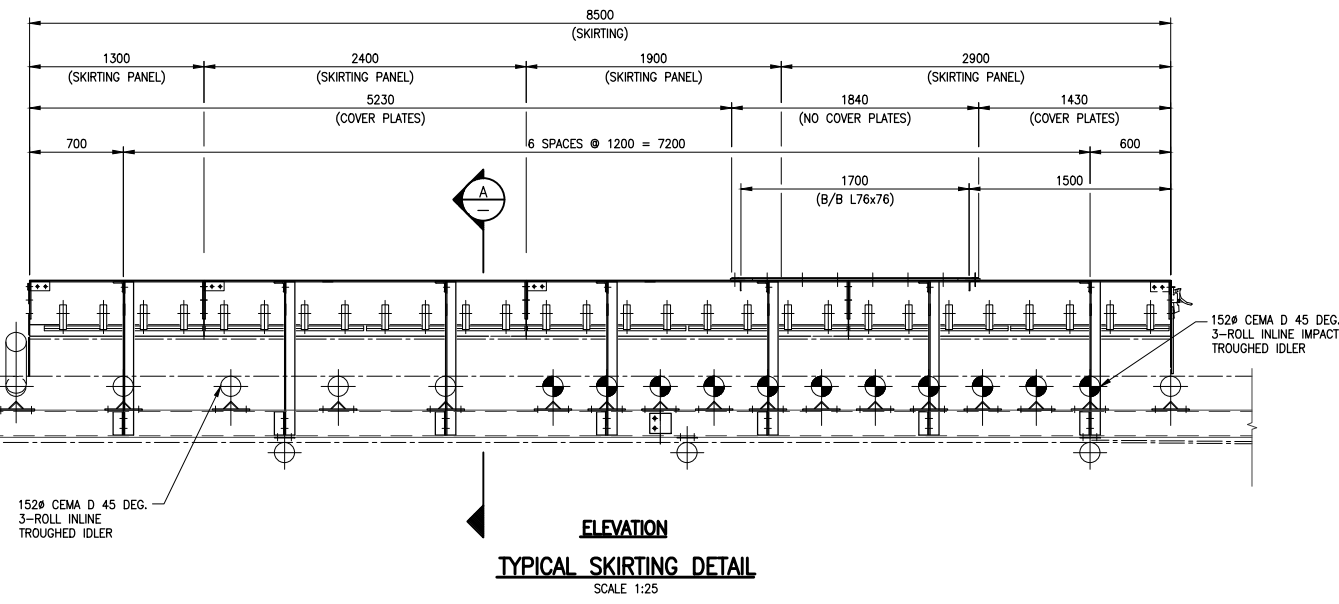
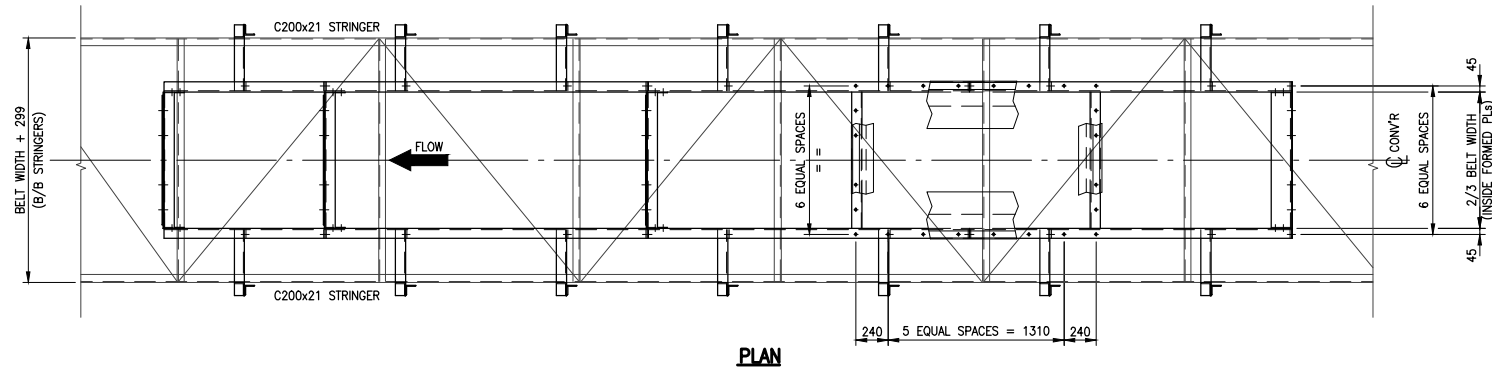

APPENDIX F-B
Mechanical Drawings (R2)



**District of North Vancouver and Vancouver Fraser Port Authority
Review**

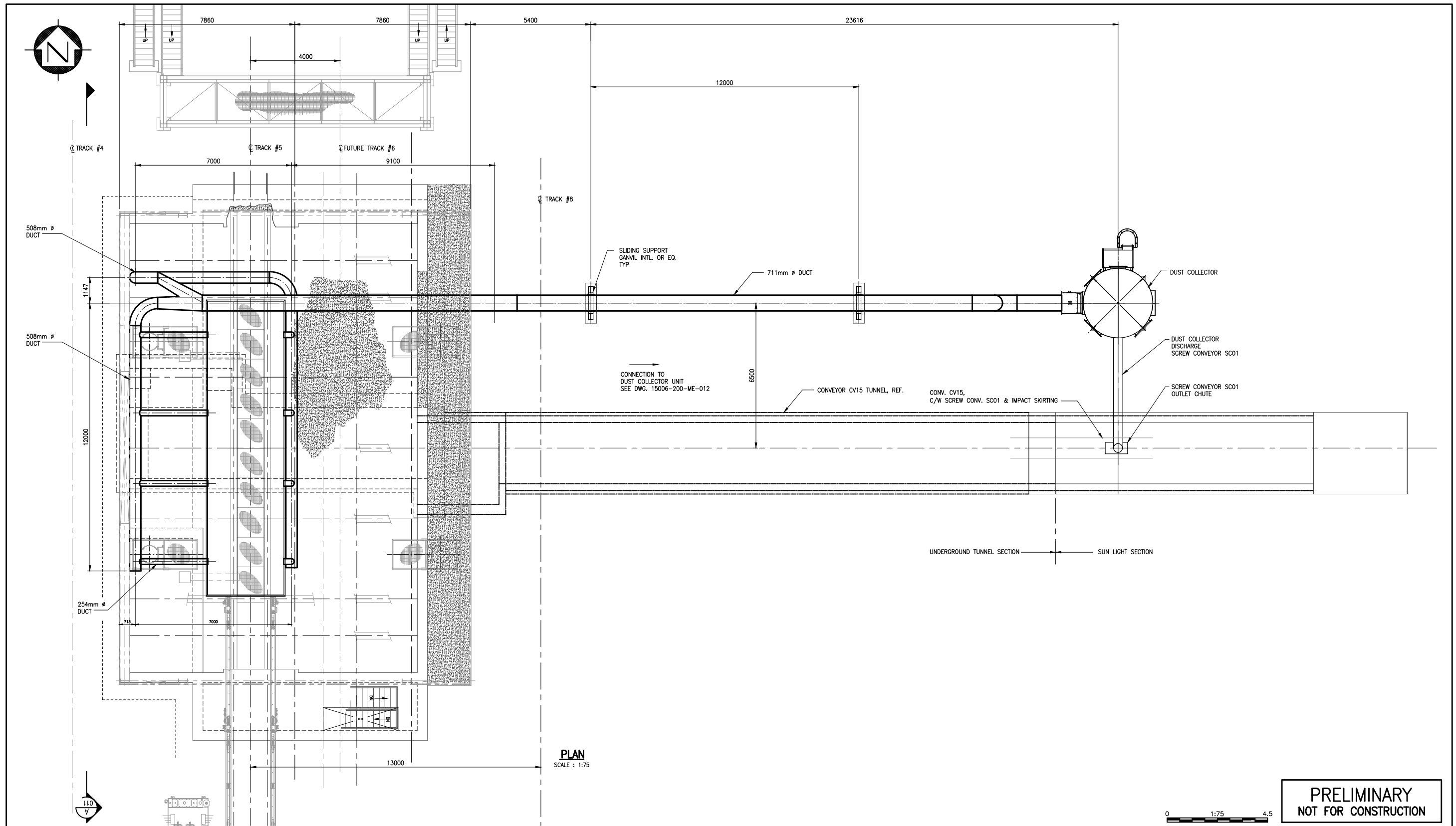
**Fibreco Export Terminal Enhancement
Permit Application Document**

**These Pages are for the
District of North Vancouver Permit Review Process**



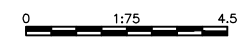
**PRELIMINARY
NOT FOR CONSTRUCTION**

		FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593		<table border="1"> <tr> <th>REF.</th> <th>DWG. NUMBER</th> <th>DESCRIPTION</th> <th>ISSUES / REVISIONS</th> <th>DRAWN</th> <th>DWG. CHECK</th> <th>DESIGN</th> <th>DESIGN CHECK</th> <th>APPROVED</th> </tr> <tr> <td>P3</td> <td>2015-12-18</td> <td>ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)</td> <td>JHY</td> <td>HSN</td> <td>BTR</td> <td>HSN</td> <td>-</td> <td>-</td> </tr> <tr> <td>P2</td> <td>2015-10-21</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>JHY</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>P1</td> <td>2015-09-16</td> <td>ISSUED FOR BUDGETARY PRICING</td> <td>JHY</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>No.</td> <td>YYYY-MM-DD</td> <td>DESCRIPTION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					REF.	DWG. NUMBER	DESCRIPTION	ISSUES / REVISIONS	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	-	P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-	-	P1	2015-09-16	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-	-	No.	YYYY-MM-DD	DESCRIPTION							 www.cwaengineers.com <small>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</small>		FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT GENERAL STANDARDS MECHANICAL TYPICAL DETAILS SHEET 1	
REF.	DWG. NUMBER	DESCRIPTION	ISSUES / REVISIONS	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED																																																	
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	-																																																	
P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-	-																																																	
P1	2015-09-16	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-	-																																																	
No.	YYYY-MM-DD	DESCRIPTION																																																							
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:		CWA ACAD FILE: 15006-100-GA-010.DWG		ISSUES / REVISIONS		* HAND INITIALS ON FILE		DRAWN BY: JHY SCALE: AS NOTED		PROJECT No. AREA DEPT. DWG. No. REV.																																													
										15006 100 GA 010 P3																																															



PLAN
SCALE : 1:75

PRELIMINARY
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REF.	DWG. NUMBER	DESCRIPTION



FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

CLIENT PROJECT No: CWA ACAD FILE: 15006-200-ME-010-011-012.DWG

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JVA	HSN			
No.	YYYY-MM-DD	DESCRIPTION					



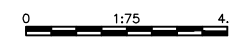
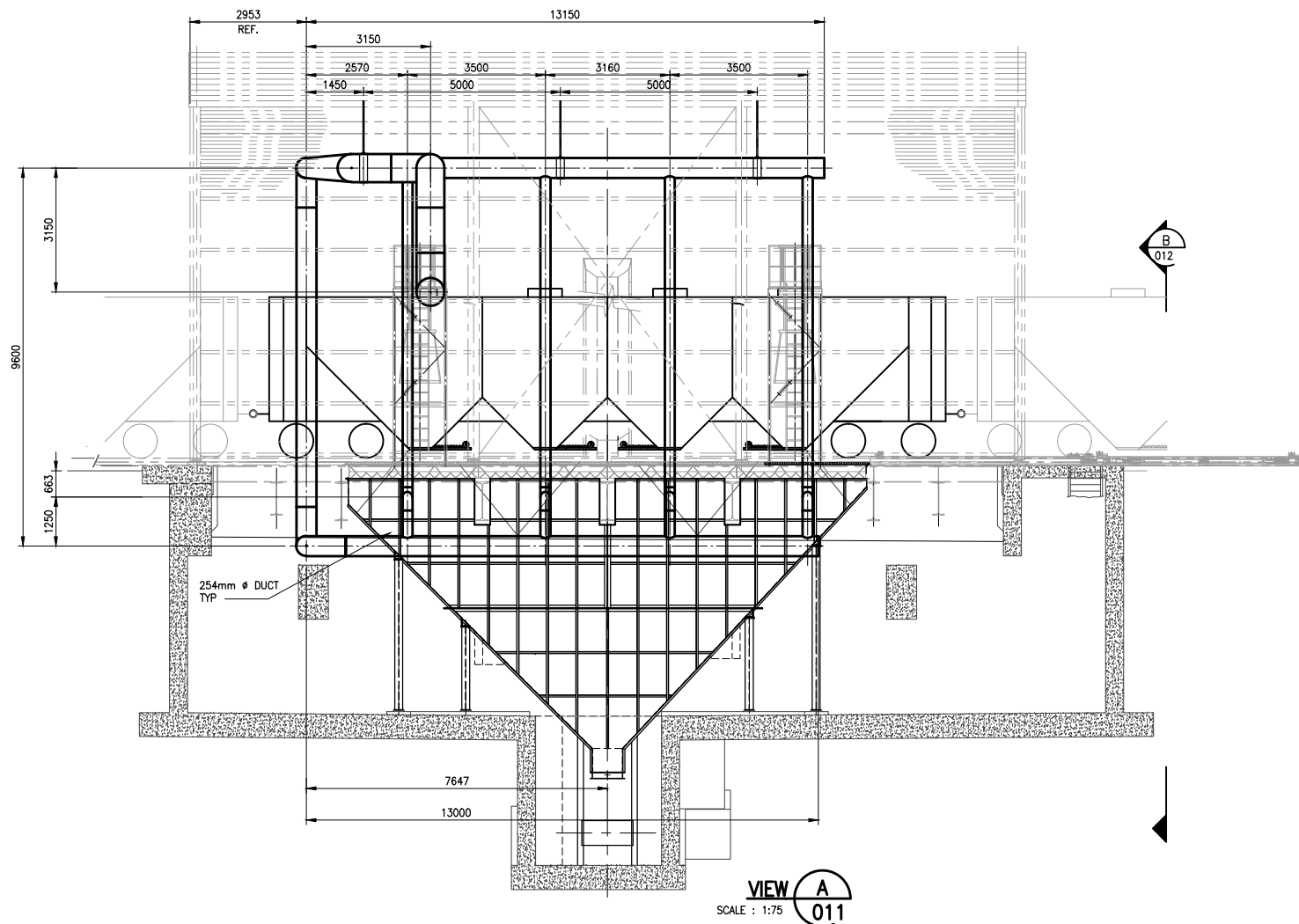
This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.

FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
INBOUND AREA RAIL CAR DUMPER DUST CONTROL DUCTING PLAN				
15006	200	ME	010	P2
PROJECT No.	AREA	DEPT.	DWG. No.	REV.

DRAWN BY: JVA SCALE: 1:50

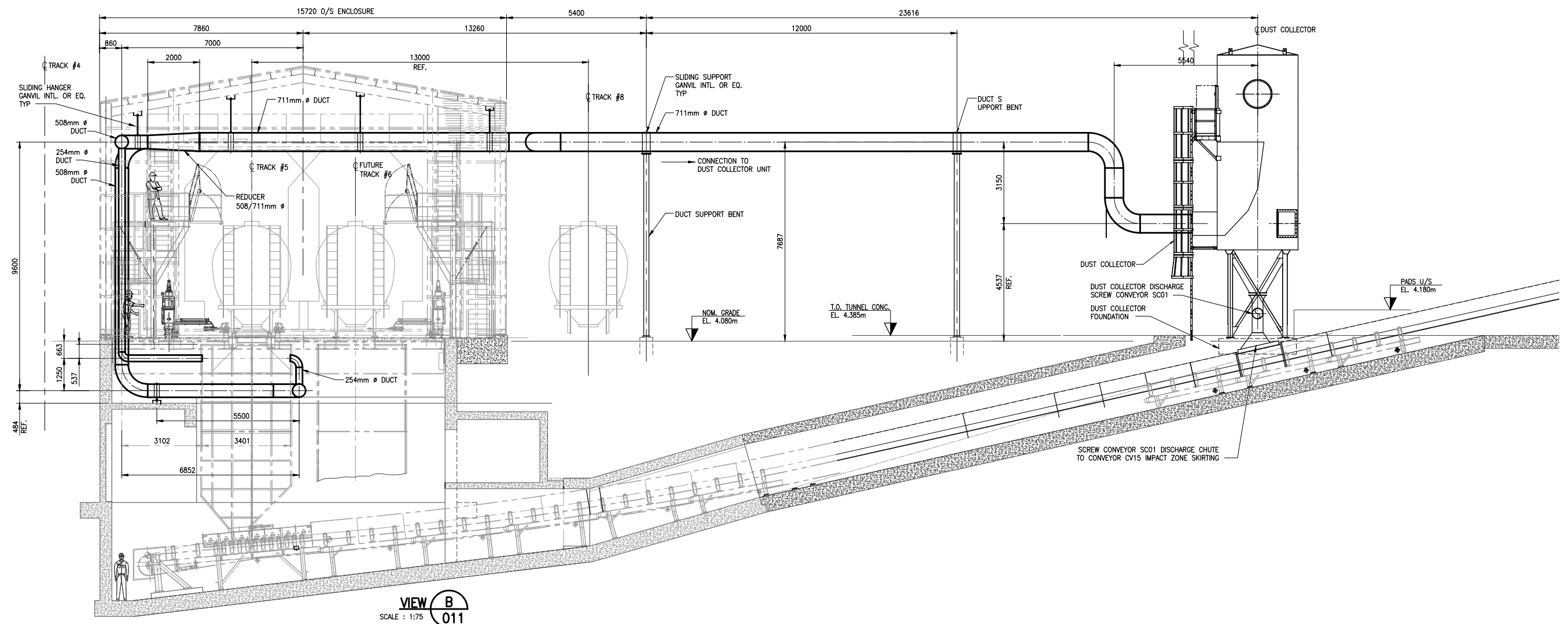
ISSUES / REVISIONS * HAND INITIALS ON FILE

REFERENCE DRAWINGS / DESIGN STANDARDS

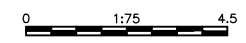


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		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>						<p>www.cwaengineers.com</p> <p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>	<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p> <p>INBOUND AREA RAIL CAR DUMPER DUST CONTROL DUCTING ELEVATION</p>									
REF.	DWG. NUMBER		DESCRIPTION	No.	DATE	DESCRIPTION	DRAWN		DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	PROJECT No.	AREA	DEPT.	DWG. No.	REV.	
			P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	15006	200	ME	011	P2			
			P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JVA	HSN											
			No.	YYYY-MM-DD	DESCRIPTION													
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:	CWA ACAD FILE: 15006-200-ME-010-011-012.DWG		ISSUES / REVISIONS					* HAND INITIALS ON FILE		DRAWN BY: JVA	SCALE: 1:50	PROJECT No.	AREA	DEPT.	DWG. No.	REV.

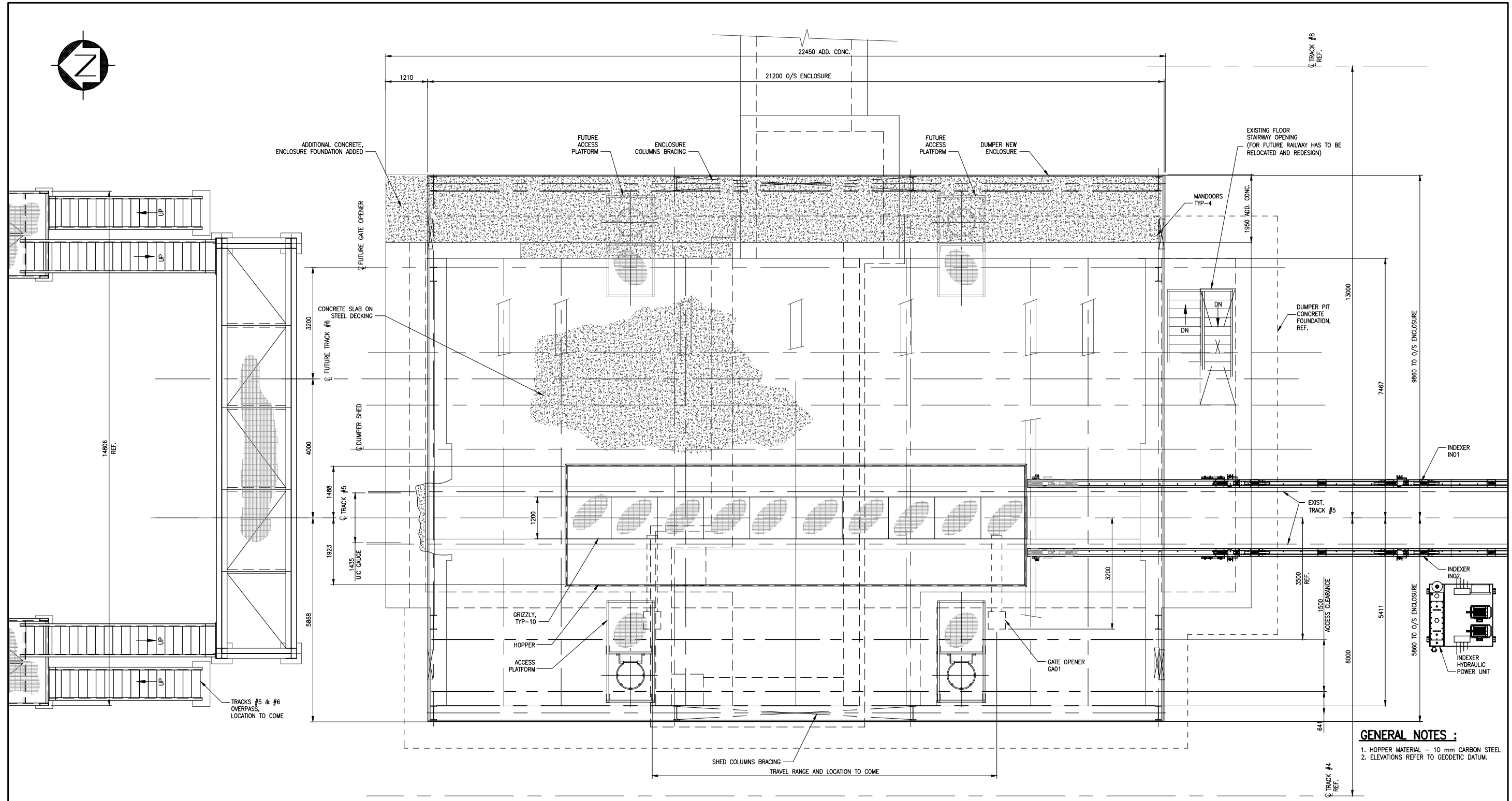


VIEW B
SCALE : 1:75
011



**PRELIMINARY
NOT FOR CONSTRUCTION**

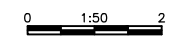
		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>						<p>www.cwaengineers.com</p> <p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>	<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p> <p>INBOUND AREA RAIL CAR DUMPER DUST CONTROL DUCTING END VIEW</p>						
REF.	DWG. NUMBER		DESCRIPTION	No.	DATE	DESCRIPTION	DRAWN		DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	PROJECT No.	AREA	DEPT.
			P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	15006	200	ME	012	P2
			P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JVA	HSN								
			No.	YYYY-MM-DD	DESCRIPTION										
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:	CWA ACAD FILE: 15006-200-ME-010-011-012.DWG			ISSUES / REVISIONS					* HAND INITIALS ON FILE				
						DRAWN BY: JVA					SCALE: 1:50				



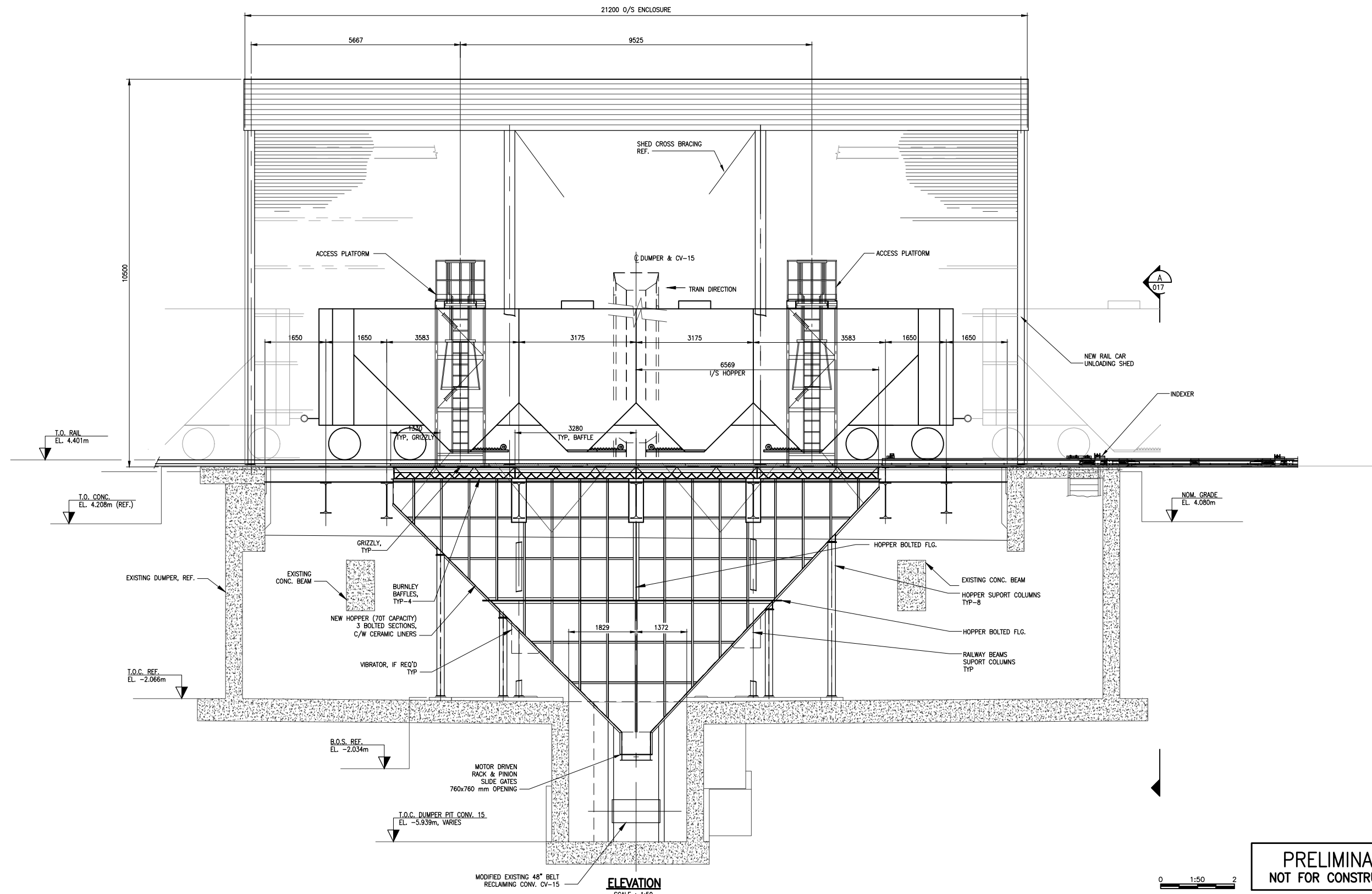
GENERAL NOTES :
 1. HOPPER MATERIAL - 10 mm CARBON STEEL
 2. ELEVATIONS REFER TO GEODETIC DATUM.

PLAN
 SCALE : 1:50

PRELIMINARY
 NOT FOR CONSTRUCTION

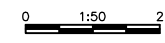


			FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593						 www.cwaengineers.com	FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT INBOUND AREA RAIL CAR DUMPER NEW HOPPER, PLAN				
REF.	DWG. NUMBER			DESCRIPTION	CLIENT PROJECT No:	CWA ACAD FILE:	ISSUES / REVISIONS	* HAND INITIALS ON FILE		DRAWN BY:	SCALE:	PROJECT No.	AREA	DEPT.
				15006-200-ME-015-016-017.DWG	P4 2015-12-18 ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING) P3 2015-10-21 ISSUED FOR CLIENT REVIEW P2 2015-09-28 ISSUED FOR CLIENT MEETING P1 2015-09-14 ISSUED FOR PMV PRE-INQUIRY MEETING	JHY HSN BTR HSN - JVA HSN JVA HSN JVA HSN	JVA	1:50	15006	200	ME	015	P4	



ELEVATION
SCALE : 1:50

**PRELIMINARY
NOT FOR CONSTRUCTION**



REF.	DWG. NUMBER	DESCRIPTION



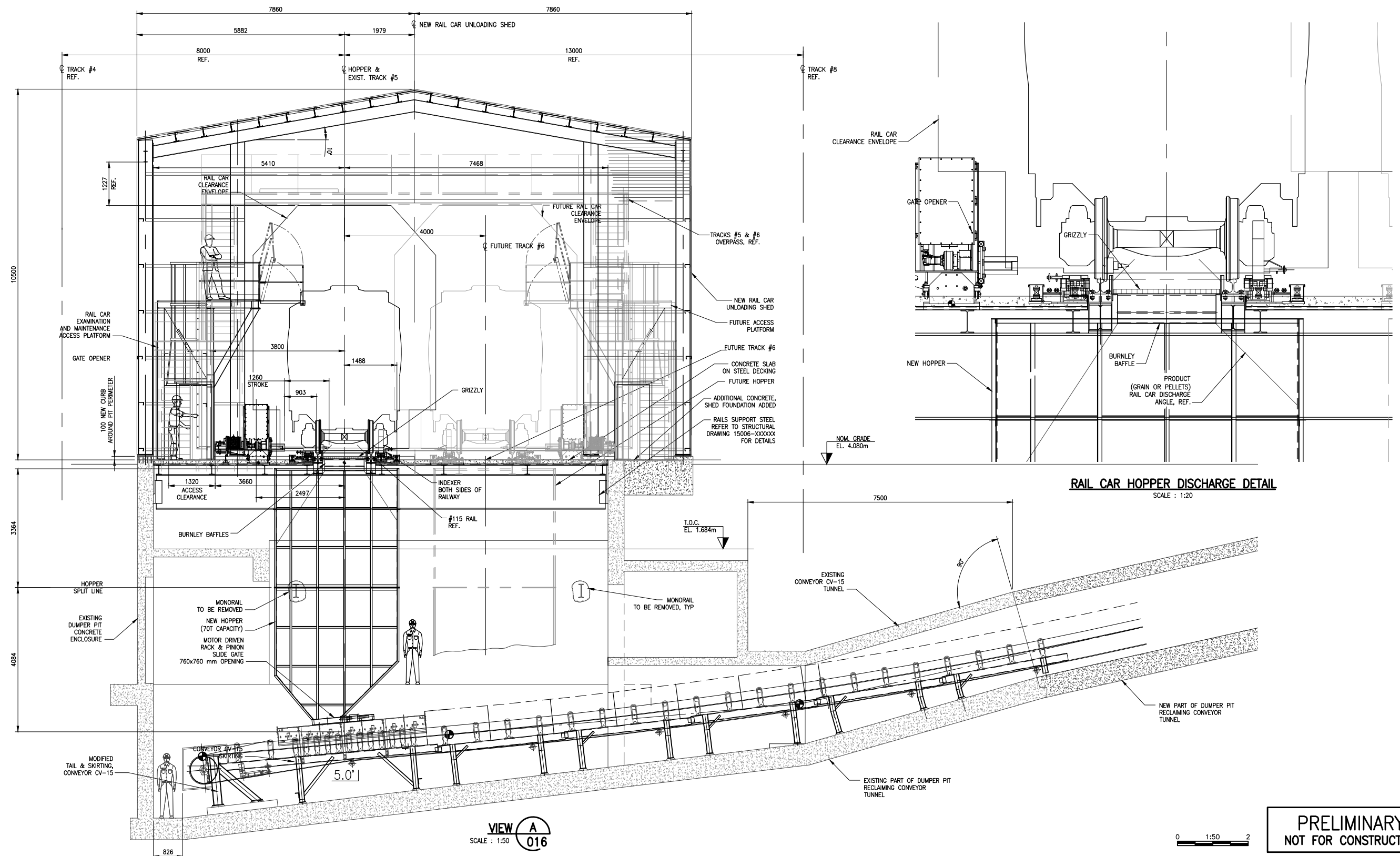
FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P4	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P3	2015-10-21	ISSUED FOR CLIENT REVIEW	JVA	HSN			
P2	2015-09-28	ISSUED FOR CLIENT MEETING	JVA	BTR			
P2	2015-09-15	ISSUED FOR BUDGETARY PRICING	JVA	BTR			
P1	2015-09-14	ISSUED FOR PMV PRE-INQUIRY MEETING	JVA	HSN			
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED



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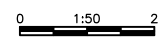
FIBRECO EXPORT INC. NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
INBOUND AREA RAIL CAR DUMPER NEW HOPPER, ELEVATION				
15006	200	ME	016	P4
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



RAIL CAR HOPPER DISCHARGE DETAIL
SCALE: 1:20

VIEW A
SCALE: 1:50
016

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FIBRECO EXPORT INC.
NORTH VANCOUVER, B.C.
FIBRECO TERMINAL ENHANCEMENT PROJECT

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**INBOUND AREA
RAIL CAR DUMPER
NEW HOPPER, END VIEW**

REF.	DWG. NUMBER	DESCRIPTION	CLIENT PROJECT No:	CWA ACAD FILE:	ISSUES / REVISIONS	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	DRAWN BY:	SCALE:	PROJECT No.	AREA	DEPT.	DWG. No.	REV.
				15006-200-ME-015-016-017.DWG							JVA	1:50	15006	200	ME	017	P4
					P4 2015-12-18 ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN								
					P3 2015-10-21 ISSUED FOR CLIENT REVIEW	JVA	HSN										
					P2 2015-09-28 ISSUED FOR CLIENT MEETING	JVA	HSN										
					P2 2015-09-15 ISSUED FOR BUDGETARY PRICING	JVA	BTR										
					P1 2015-09-14 ISSUED FOR PMV PRE-INQUIRY MEETING	JVA	HSN										
					No. YYYY-MM-DD DESCRIPTION												

REFERENCE DRAWINGS / DESIGN STANDARDS

CLIENT PROJECT No:

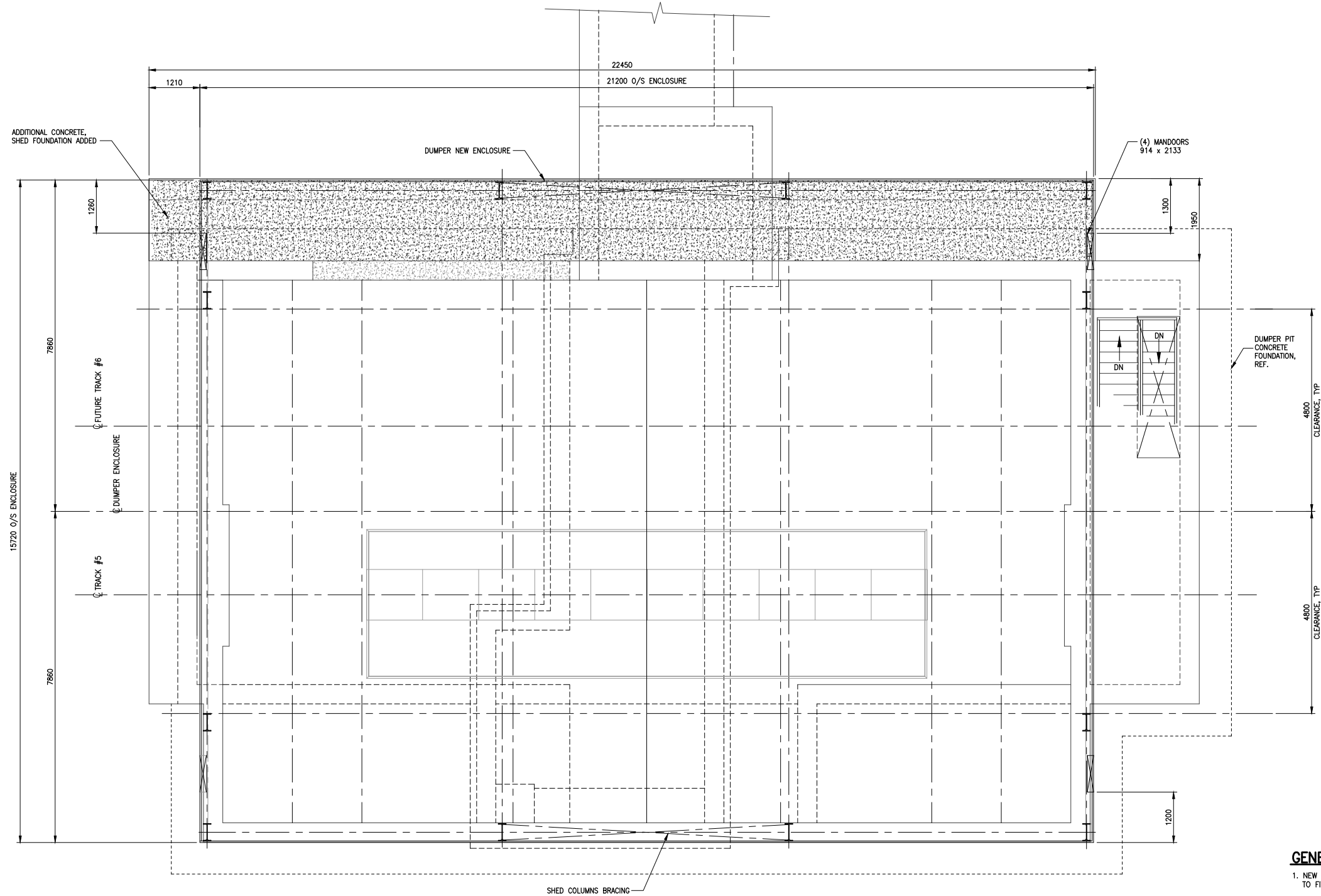
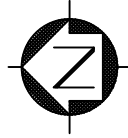
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ISSUES / REVISIONS

* HAND INITIALS ON FILE

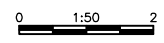
DRAWN BY: JVA SCALE: 1:50

PROJECT No. AREA DEPT. DWG. No. REV.



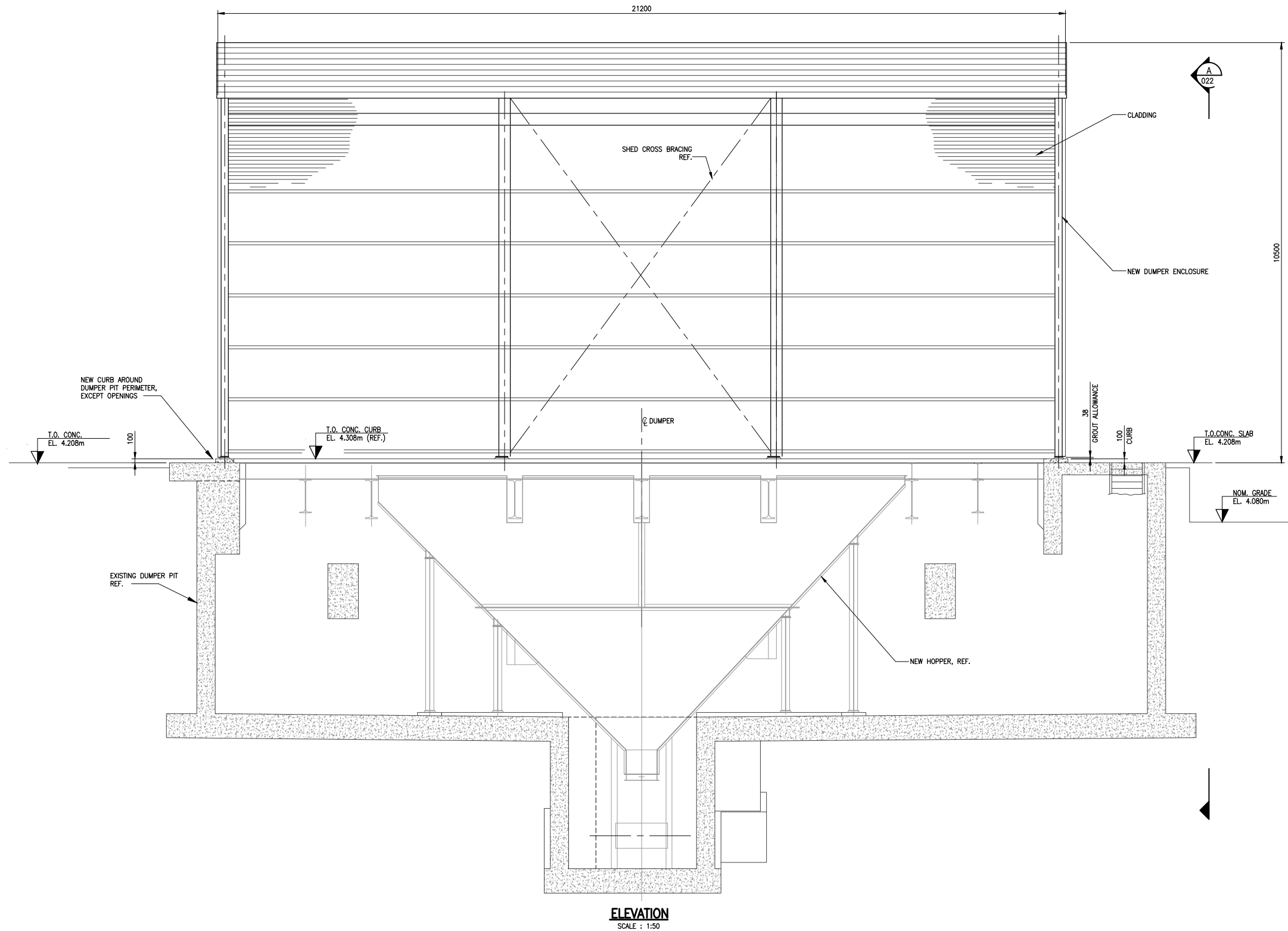
- GENERAL NOTES :**
1. NEW ENCLOSURE COLUMN BOLTING PADS TO FIT EXISTING PIT CONCRETE WALLS THICKNESS
 2. NEW CONCR. CURB AROUND EXISTING DUMPER PIT OUTSIDE WALLS, EXCEPT NEW ENCLOSURE OPENINGS AND DOORS

PLAN
SCALE : 1:50

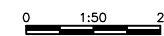


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REF.	DWG. NUMBER			DESCRIPTION	No.	YYYY-MM-DD	DESCRIPTION	DRAWN			DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	15006	200	ME
REFERENCE DRAWINGS / DESIGN STANDARDS			CLIENT PROJECT No:		CWA ACAD FILE: 15006-200-ME-020-021-022.DWG		ISSUES / REVISIONS					DRAWN BY: JVA		SCALE: 1:50		PROJECT No. AREA DEPT. DWG. No. REV.	

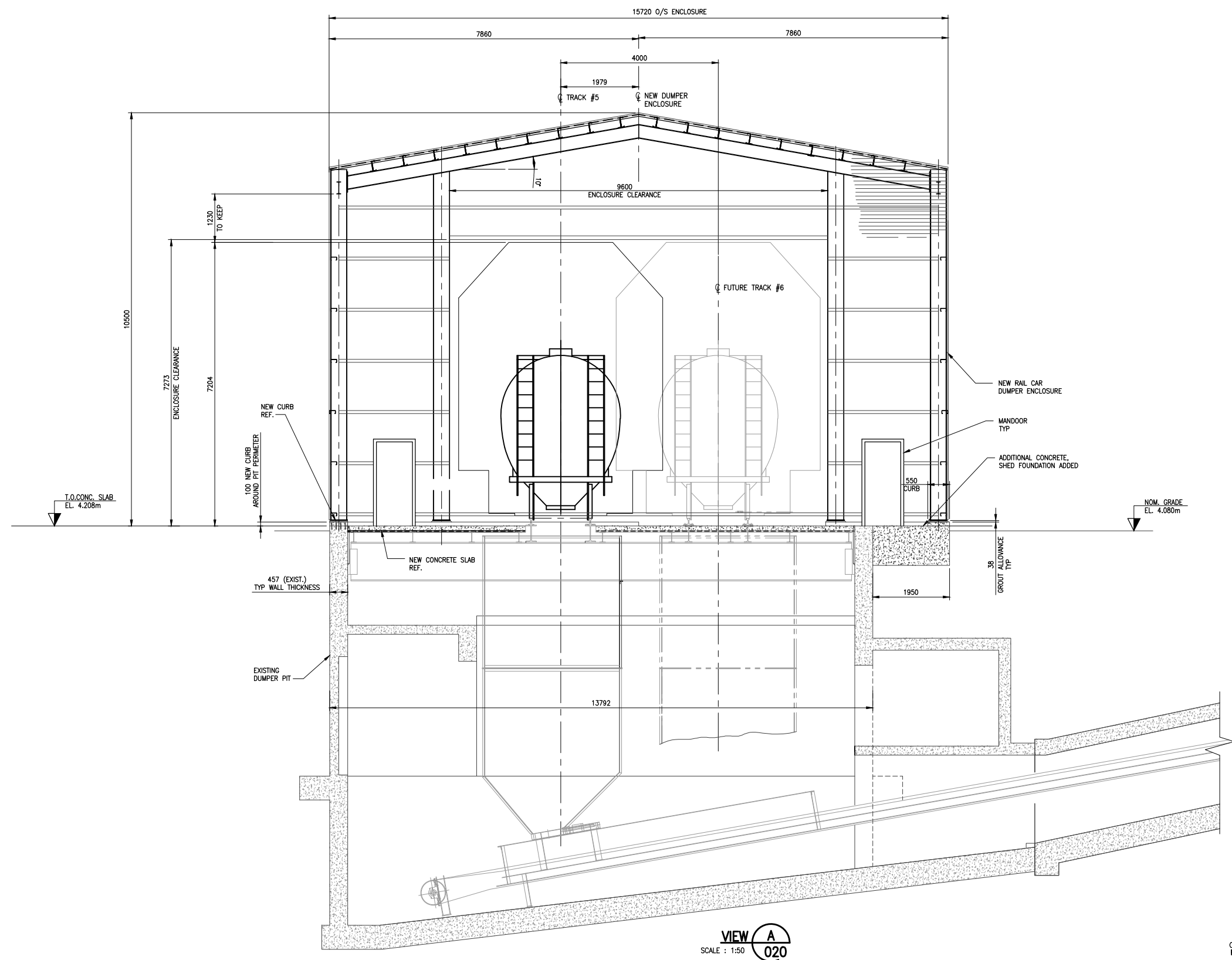


ELEVATION
SCALE : 1:50

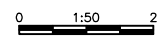


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		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>							<p>www.cwaengineers.com</p>		<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p>							
									<p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>		<p>INBOUND AREA RAIL CAR DUMPER DUMPER ENCLOSURE, ELEVATION</p>							
REF.	DWG. NUMBER	DESCRIPTION	No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	15006	200	ME	021	P3			
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:	CWA ACAD FILE: 15006-200-ME-020-021-022.DWG		ISSUES / REVISIONS					* HAND INITIALS ON FILE		DRAWN BY: JVA	SCALE: 1:50	PROJECT No.	AREA	DEPT.	DWG. No.	REV.

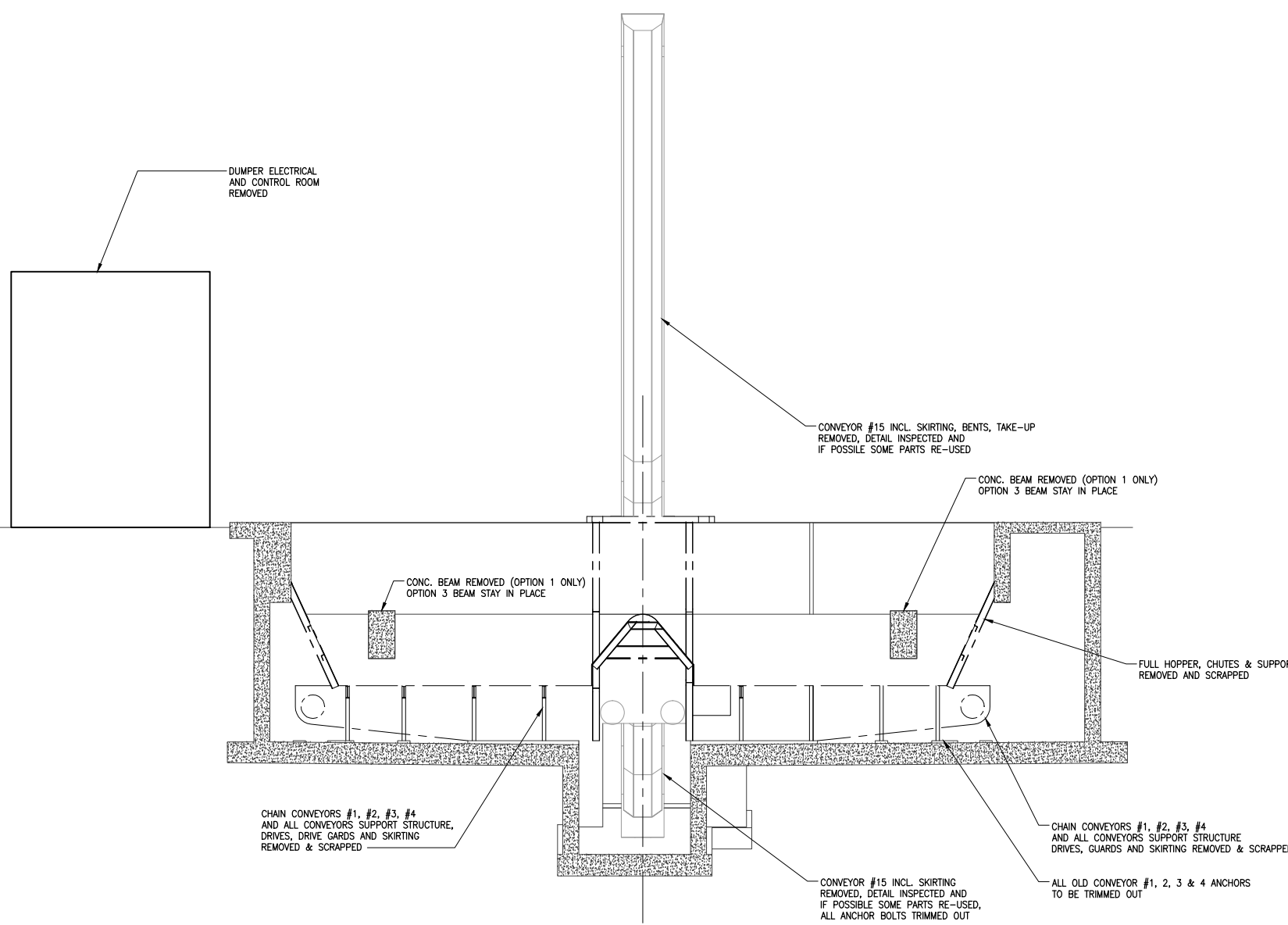


VIEW A
SCALE: 1:50

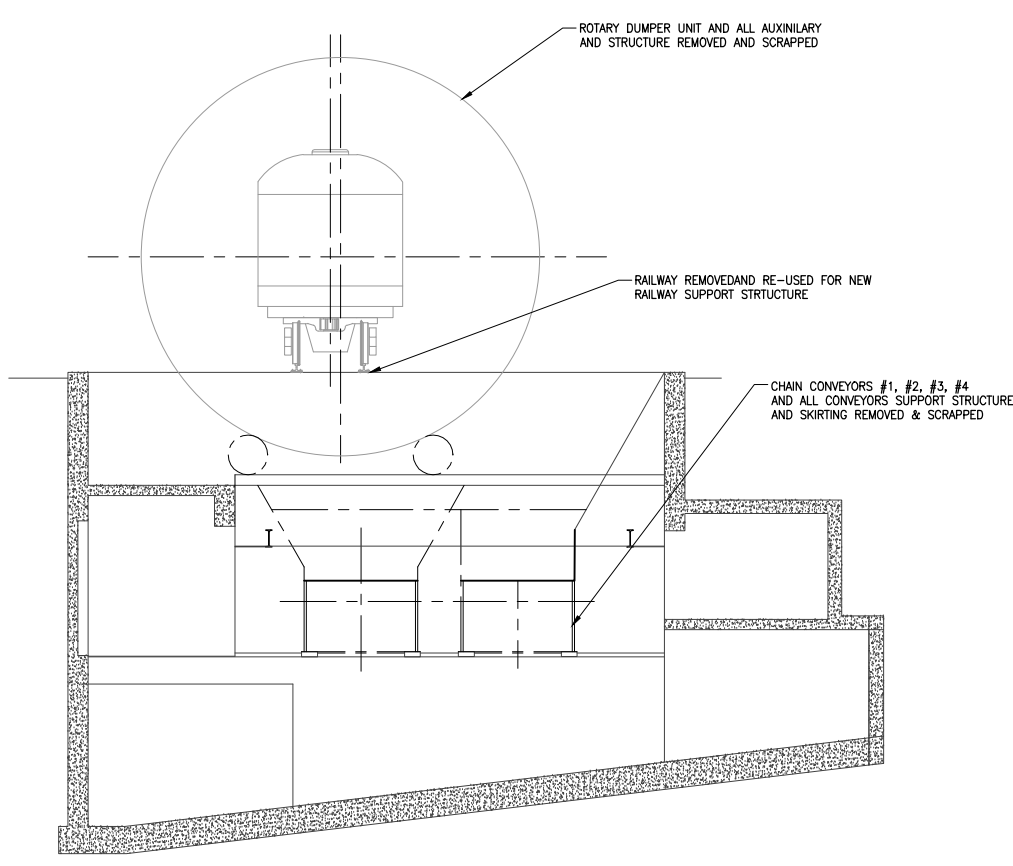


PRELIMINARY
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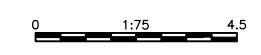
		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>							<p>www.cwaengineers.com</p>		<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p>						
									<p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>		<p>INBOUND AREA RAIL CAR DUMPER DUMPER ENCLOSURE, END VIEW</p>						
REF.	DWG. NUMBER	DESCRIPTION	No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	15006	200	ME	022	P3		
REFERENCE DRAWINGS / DESIGN STANDARDS			CLIENT PROJECT No:			CWA ACAD FILE: 15006-200-ME-020-021-022.DWG			ISSUES / REVISIONS			DRAWN BY: JVA			SCALE: 1:50		
									* HAND INITIALS ON FILE			PROJECT No.			AREA		
												DEPT.			DWG. No.		
												REV.					



ELEVATION
SCALE : 1:75

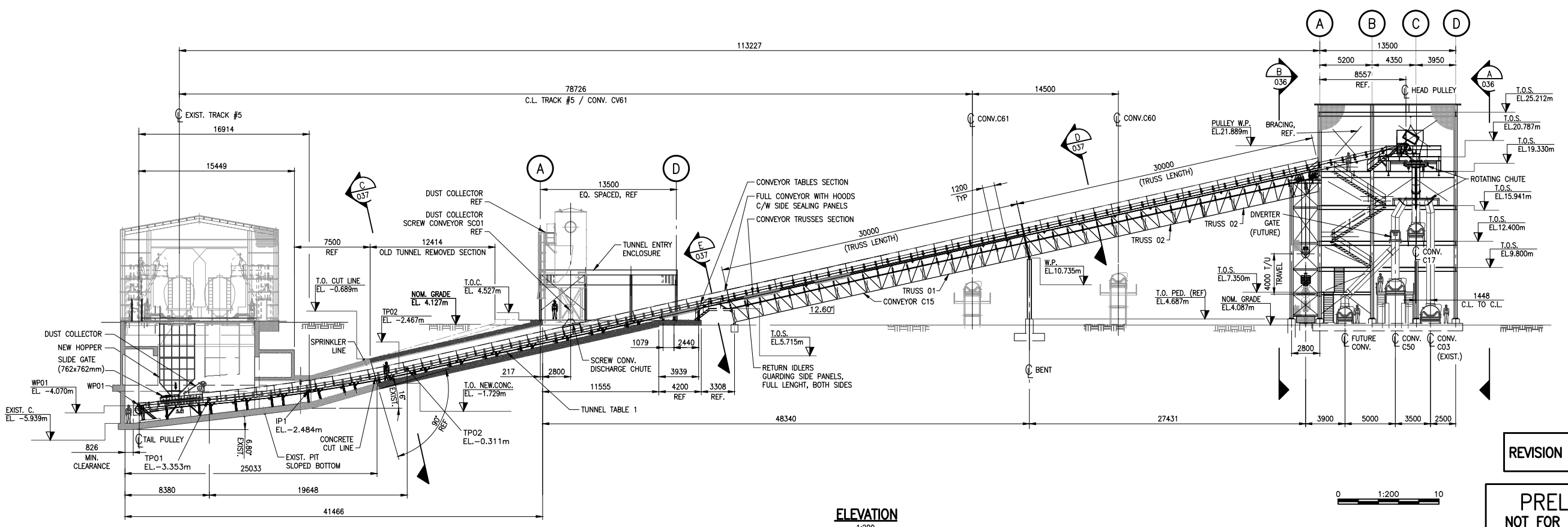
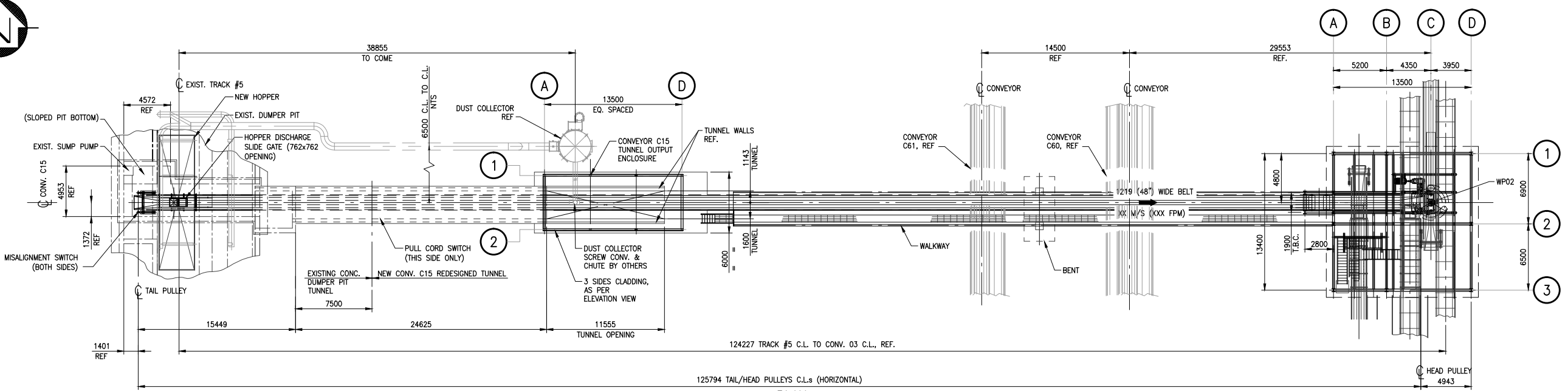


END VIEW
SCALE : 1:75



FOR INFORMATION ONLY

		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>							<p>www.cwaengineers.com</p> <p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>	<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p> <p>INBOUND AREA RAIL CAR DUMPER EQUIPMENT REMOVAL DETAILS</p>																																	
REF.	DWG. NUMBER			DESCRIPTION	CLIENT PROJECT No:	CWA ACAD FILE: 15006-200-ME-030.DWG	ISSUES / REVISIONS	* HAND INITIALS ON FILE		DRAWN BY: JHY	SCALE: 1:250	PROJECT No.	AREA	DEPT.	DWG. No.	REV.																											
					<table border="1"> <tr> <th>No.</th> <th>YYYY-MM-DD</th> <th>DESCRIPTION</th> <th>DRAWN</th> <th>DWG. CHECK</th> <th>DESIGN</th> <th>DESIGN CHECK</th> <th>APPROVED</th> </tr> <tr> <td>P3</td> <td>2015-12-18</td> <td>ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)</td> <td>JHY</td> <td>HSN</td> <td>BTR</td> <td>HSN</td> <td>-</td> </tr> <tr> <td>P2</td> <td>2015-10-21</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>JVA</td> <td>HSN</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>P1</td> <td>2015-xx-xx</td> <td>ISSUED FOR ...</td> <td>JVA</td> <td>SAB</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>	No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JVA	HSN	-	-	-	P1	2015-xx-xx	ISSUED FOR ...	JVA	SAB	-	-	-		15006	200	ME	030	P3
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED																																				
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-																																				
P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JVA	HSN	-	-	-																																				
P1	2015-xx-xx	ISSUED FOR ...	JVA	SAB	-	-	-																																				



REVISION IN PROGRESS

PRELIMINARY
NOT FOR CONSTRUCTION

REF.	DWG. NUMBER	DESCRIPTION
		REFERENCE DRAWINGS / DESIGN STANDARDS



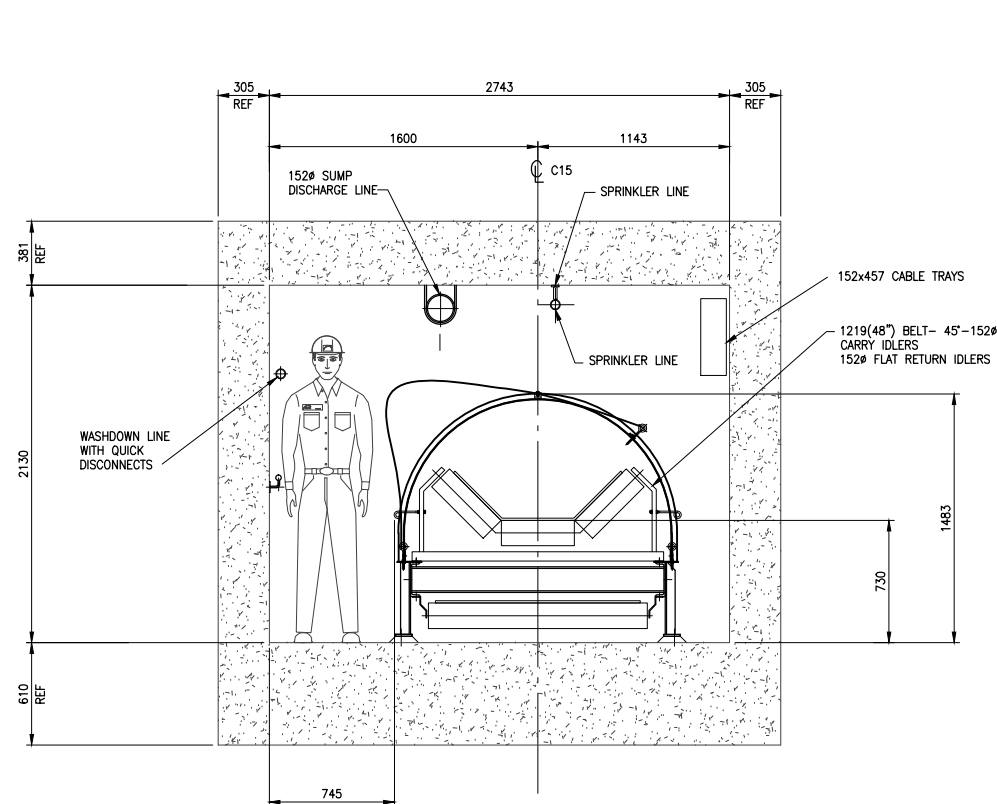
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FAX: (604) 984-2593

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	
P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JVA	HSN			
P1	2015-09-11	ISSUED FOR BUDGETARY PRICING	JVA				
No.	YYYY-MM-DD	DESCRIPTION					

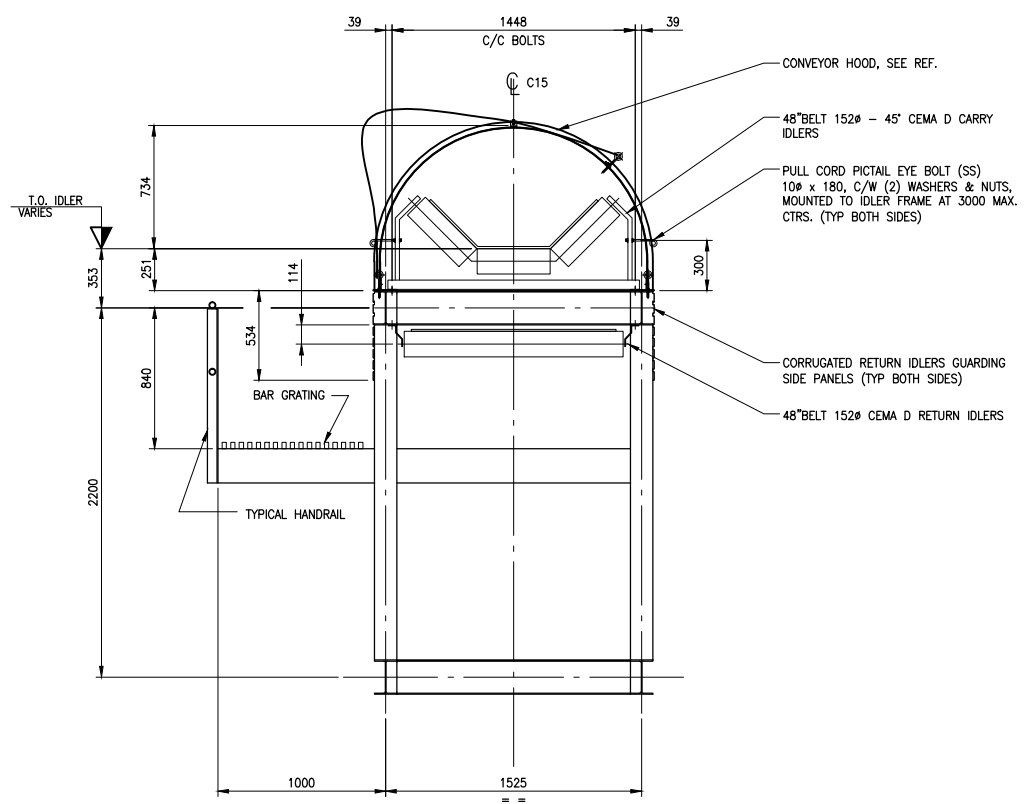


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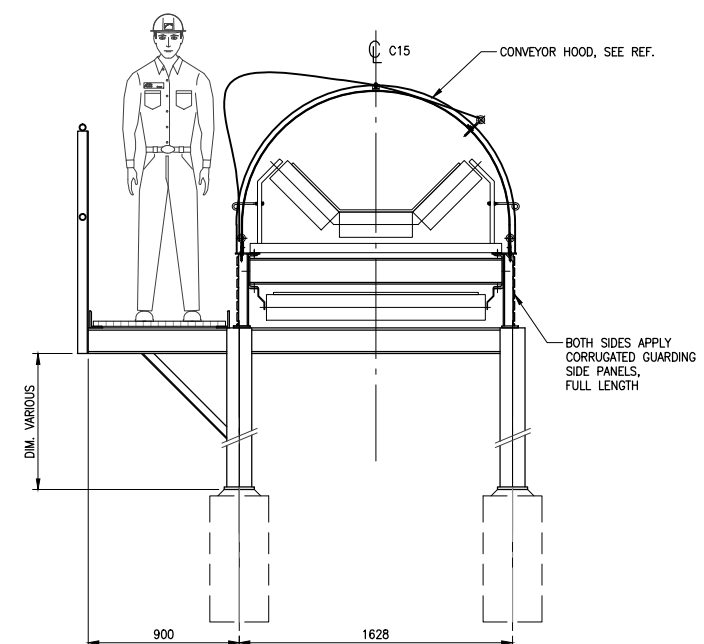
FIBRECO EXPORT INC. NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
INBOUND AREA CONVEYOR C15 GENERAL ARRANGEMENT				
15006	200	ME	035	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



SECTION C
SCALE: 1:20



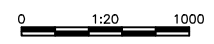
SECTION D
SCALE: 1:20



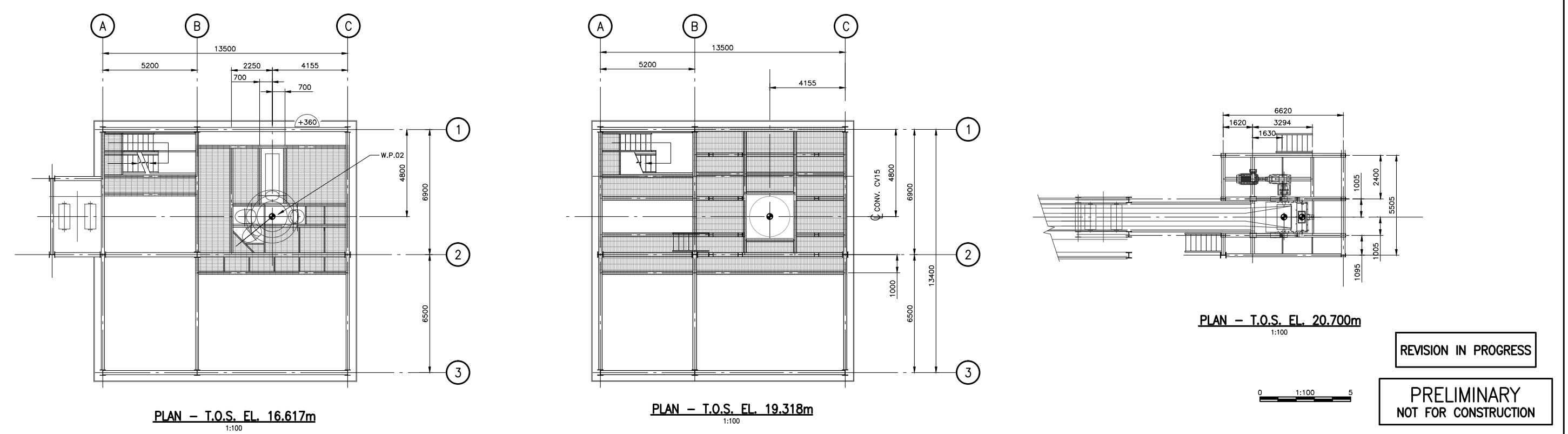
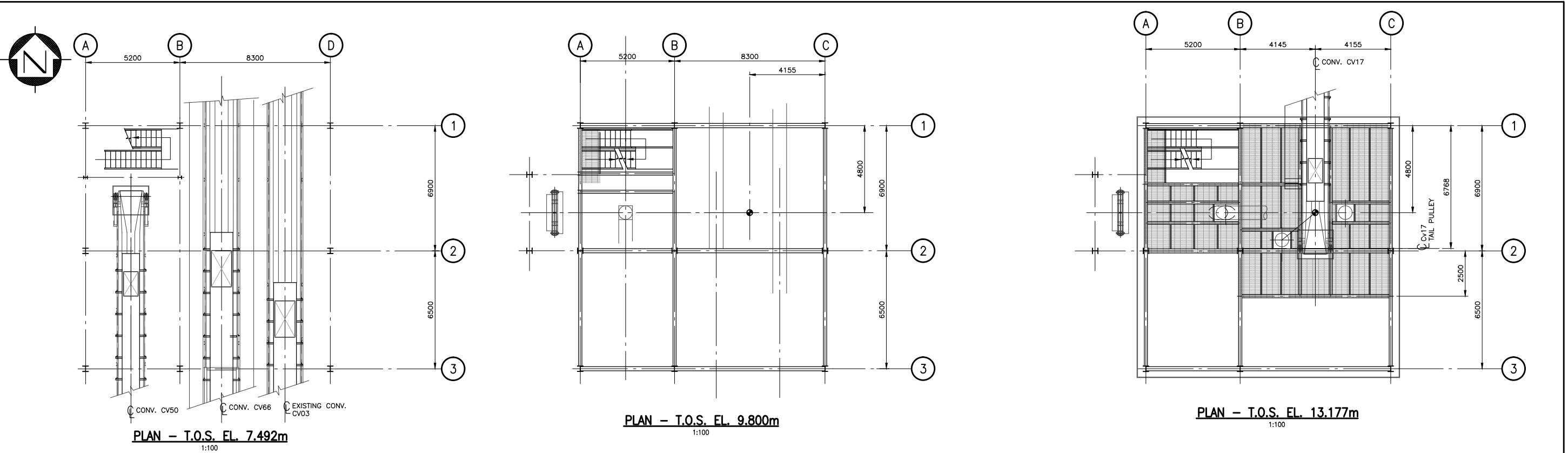
SECTION E
SCALE: 1:20

REVISION IN PROGRESS

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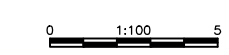


		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>							<p>www.cwaengineers.com</p> <p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>	<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p> <p>INBOUND AREA CONVEYOR C15 SECTIONS SHEET 2</p>				
REF.	DWG. NUMBER			DESCRIPTION	CLIENT PROJECT No:	CWA ACAD FILE: 15006-200-ME-037.DWG	ISSUES / REVISIONS	* HAND INITIALS ON FILE		DRAWN BY: RLH	SCALE: NOTED	PROJECT No.	AREA	DEPT.
					P2 2015-12-18 ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY HSN BTR HSN -			15006	200	ME	037	P2	
					P1 2015-10-21 ISSUED FOR CLIENT REVIEW	JVA HSN -								
					No. YYYY-MM-DD DESCRIPTION	DRAWN DWG. CHECK DESIGN DESIGN CHECK APPROVED								

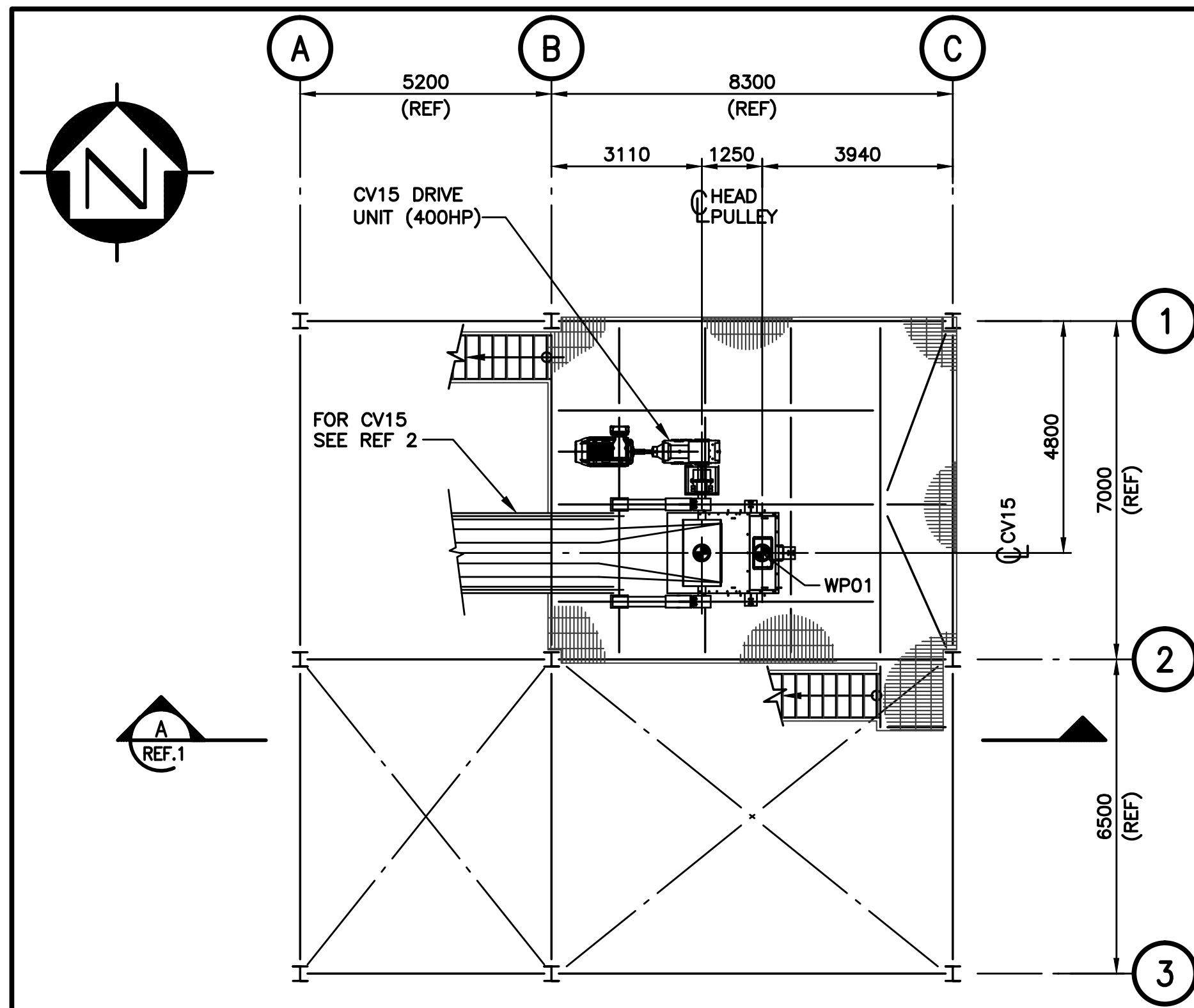


REVISION IN PROGRESS

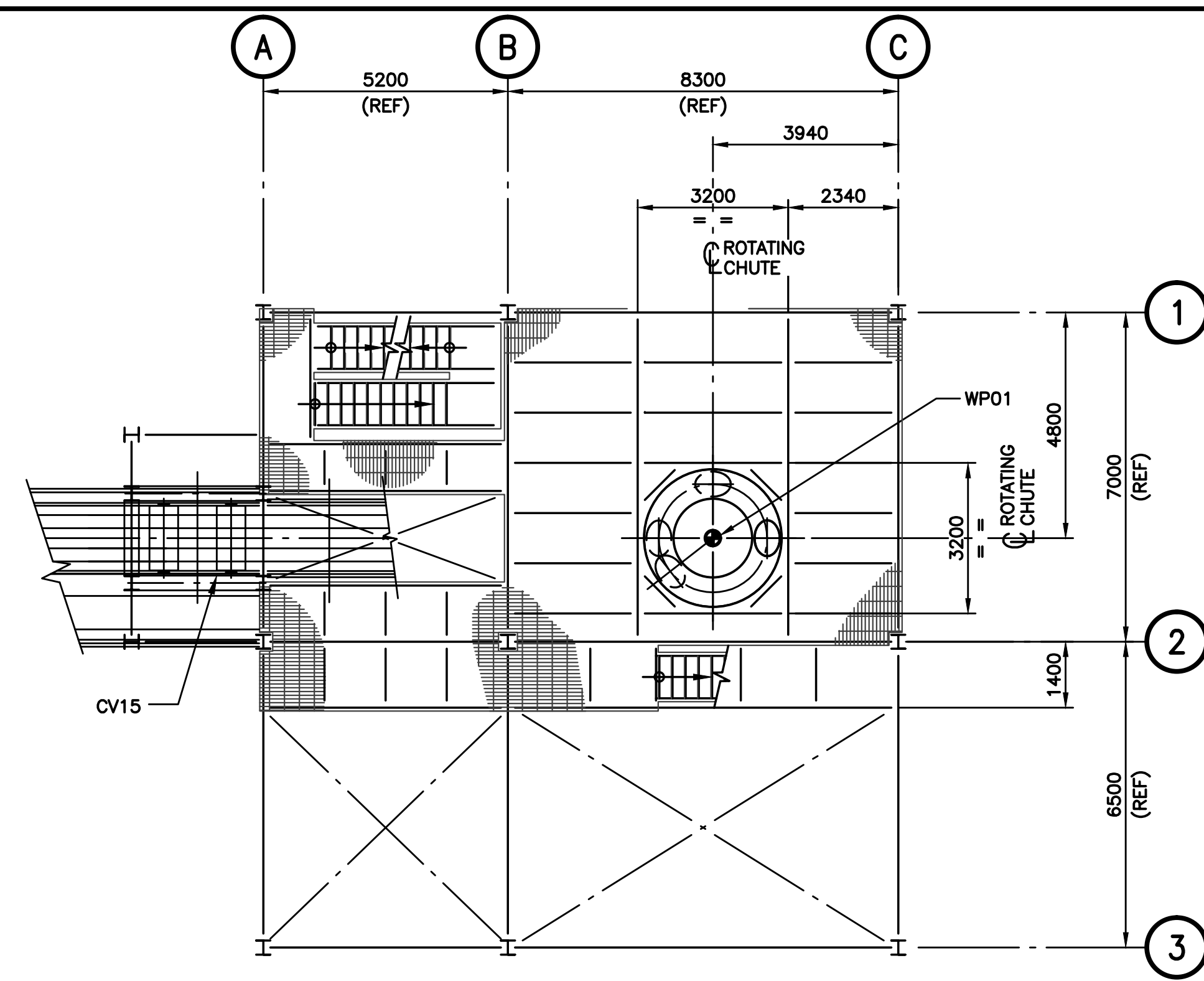
PRELIMINARY
NOT FOR CONSTRUCTION



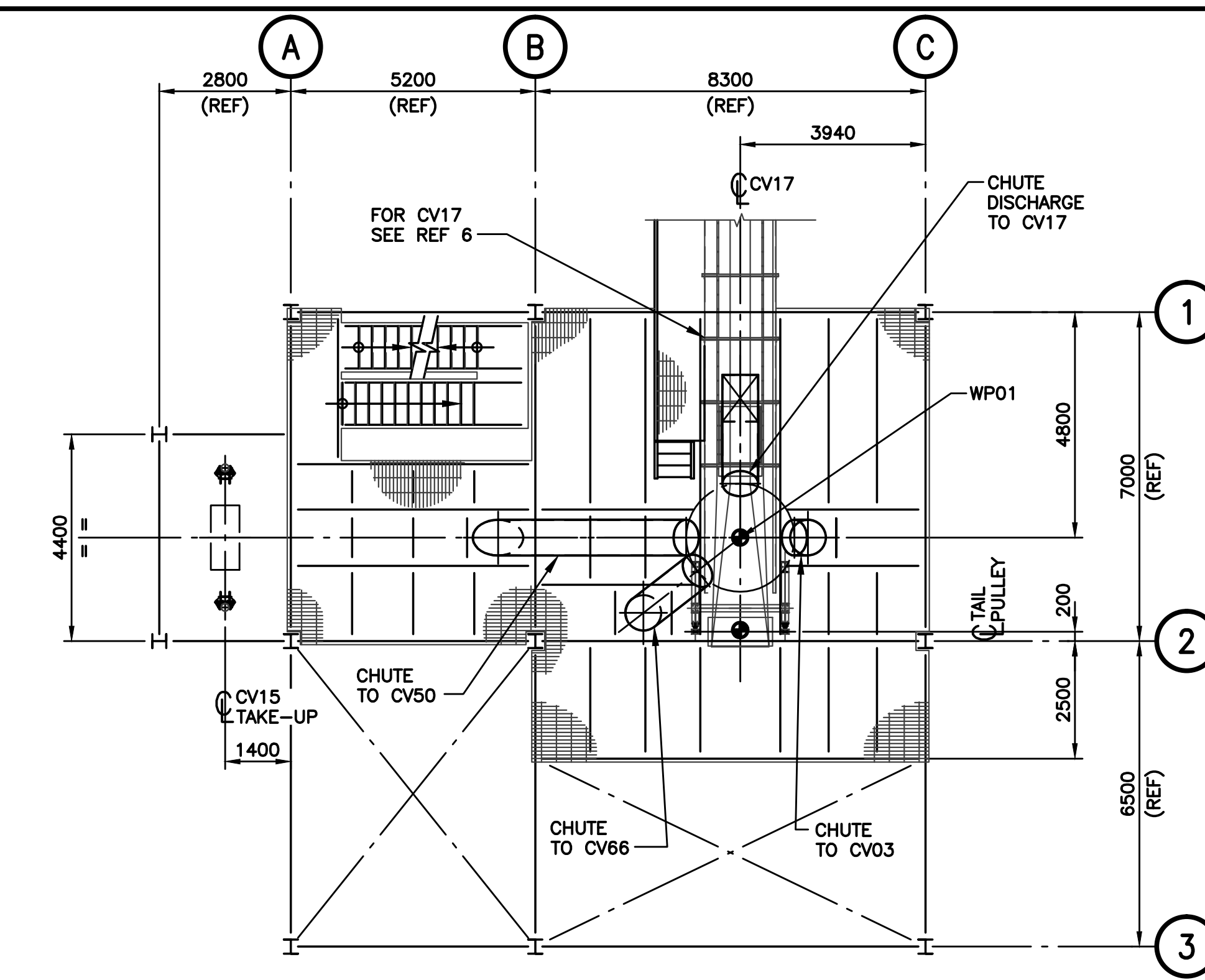
		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>						<p>www.cwaengineers.com</p> <p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>	<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p> <p>INBOUND AREA TRANSFER TOWER 1 GENERAL ARRANGEMENT - PLANS</p> <p>15006 200 ME 040 P1</p>				
REF.	DWG. NUMBER		DESCRIPTION	No.	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY		HSN	BTR	HSN	-	
REFERENCE DRAWINGS / DESIGN STANDARDS			CLIENT PROJECT No:			CWA ACAD FILE: 15006-200-ME-040-041.DWG			ISSUES / REVISIONS				
						DRAWN			* HAND INITIALS ON FILE				
						DWG. CHECK			DRAWN BY: JVA SCALE: NOTED				
						DESIGN			PROJECT No.				
						DESIGN CHECK			AREA				
						APPROVED			DEPT.				
									DWG. No.				
									REV.				



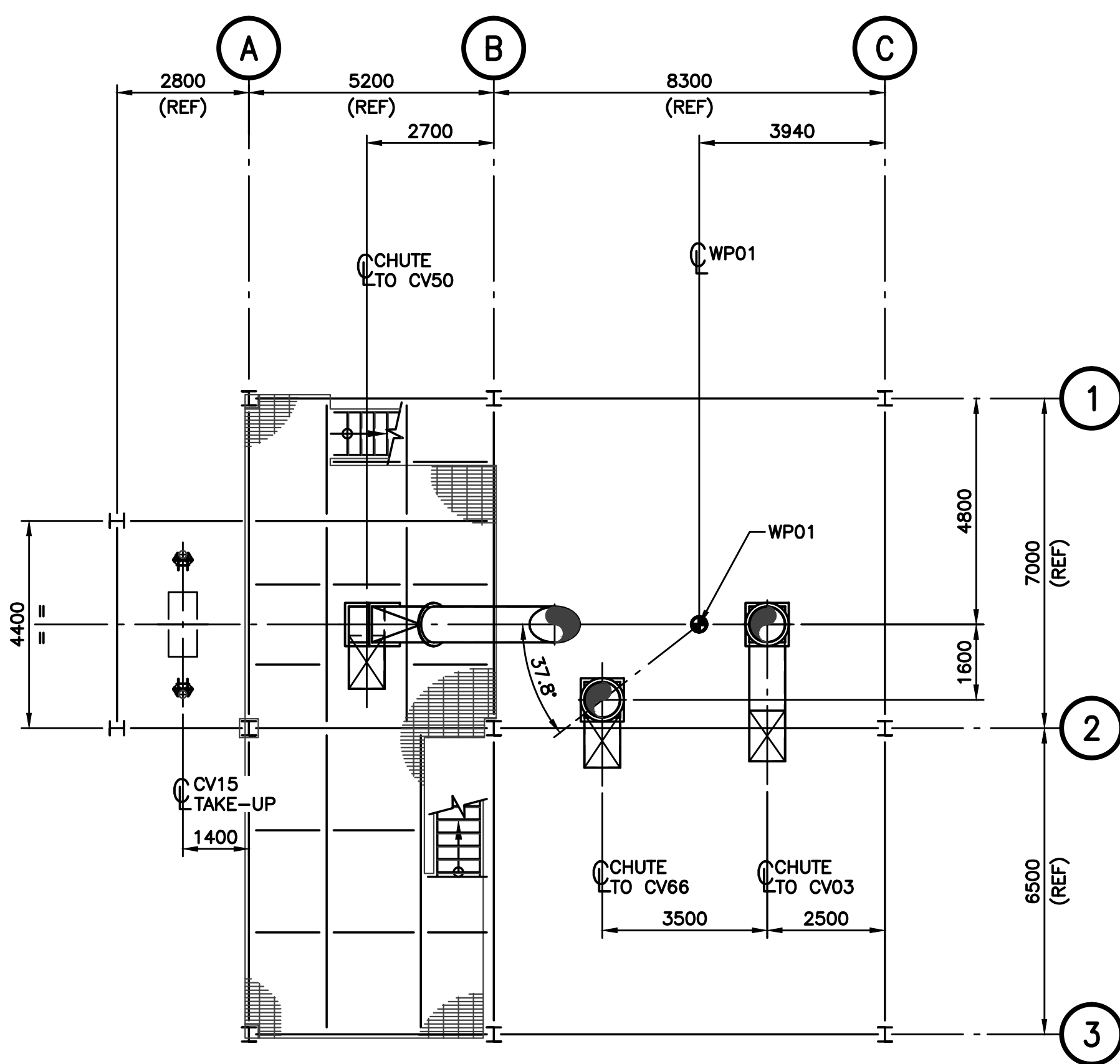
PLAN - T.O.S. EL. 20.700m
1:100



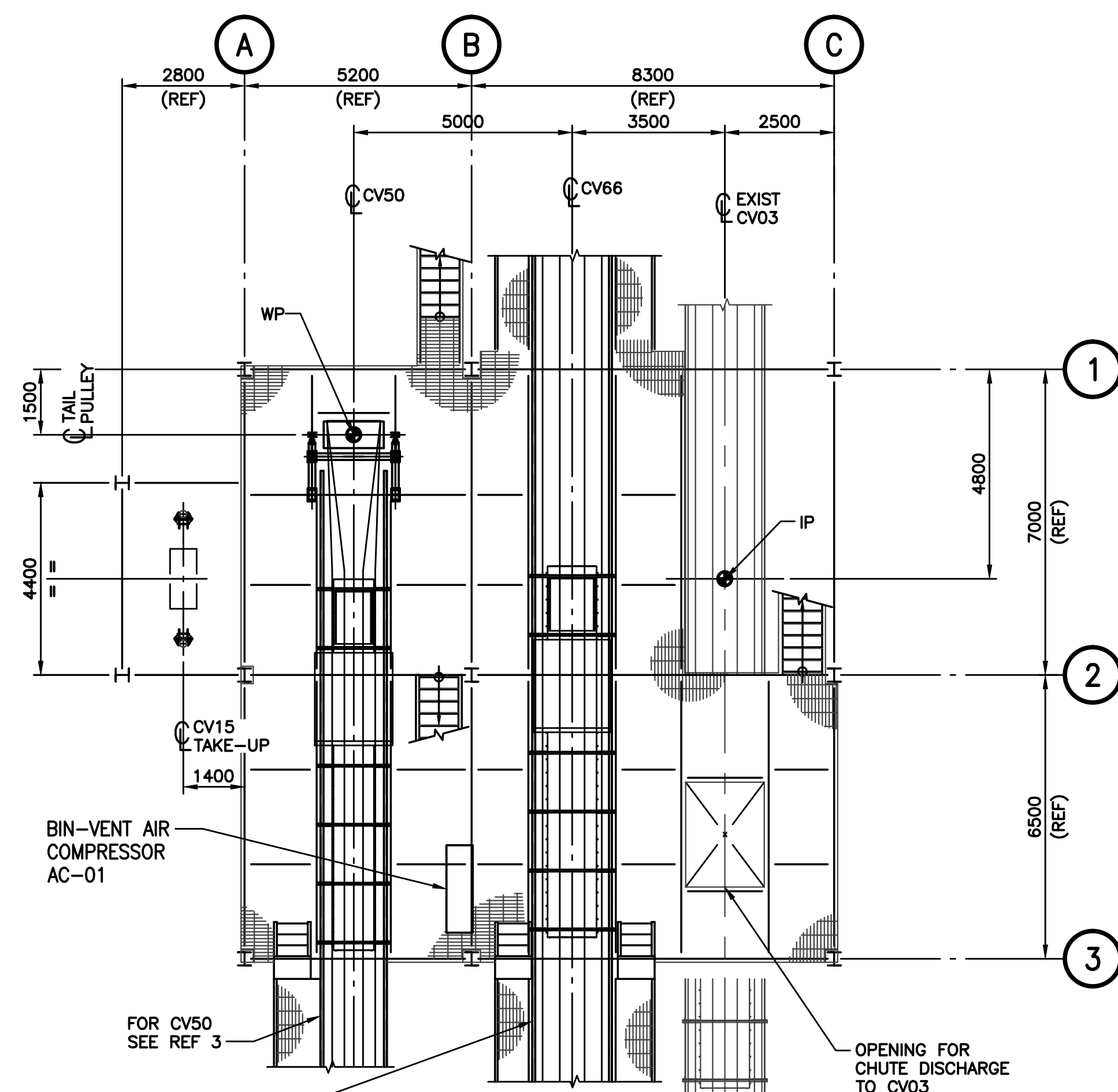
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1:100



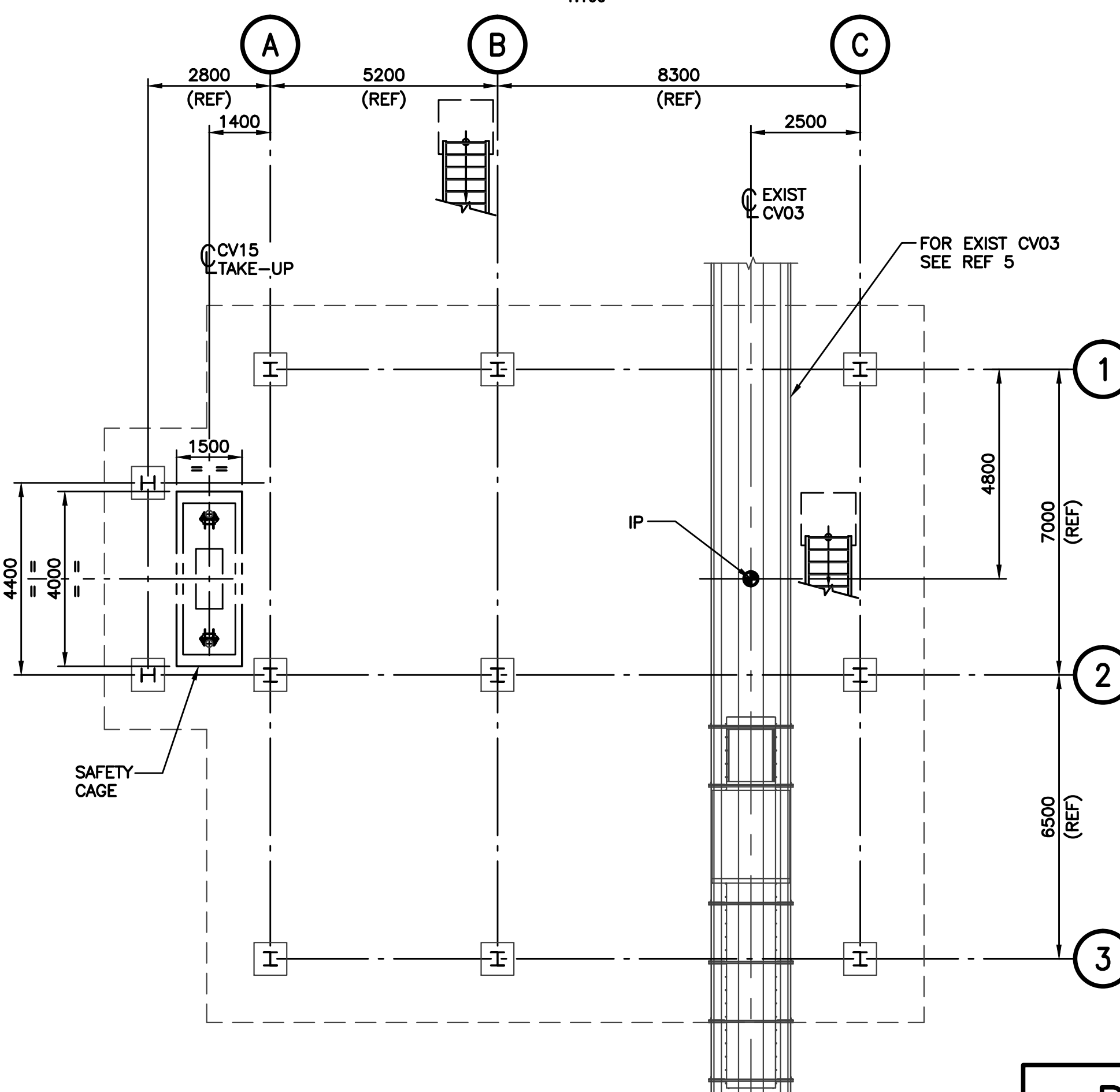
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PLAN - T.O.S. EL. 10.150m
1:100



PLAN - T.O.S. EL. 7.270m
1:100



PLAN - T.O.C. EL. 4.250m
1:100

0 1:100 5

PRELIMINARY
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REF.	DWG. NUMBER	DESCRIPTION
6	15006-600-ME-021	PELLET SYSTEM AREA - CONVEYOR 17 - GEN ARRGT
5	15006-400-ME-030	OUTBOUND AREA - EXISTING CONVEYOR 3 - GEN ARRGT
4	15006-200-ME-060	INBOUND AREA - CONVEYOR 66 - GEN ARRGT
3	15006-200-ME-045	INBOUND AREA - CONVEYOR 50 - GEN ARRGT
2	15006-200-ME-035	INBOUND AREA - CONVEYOR 15 - GEN ARRGT
1	15006-200-ME-041	INBOUND AREA - TRANSFER TOWER 1 - SECTIONS



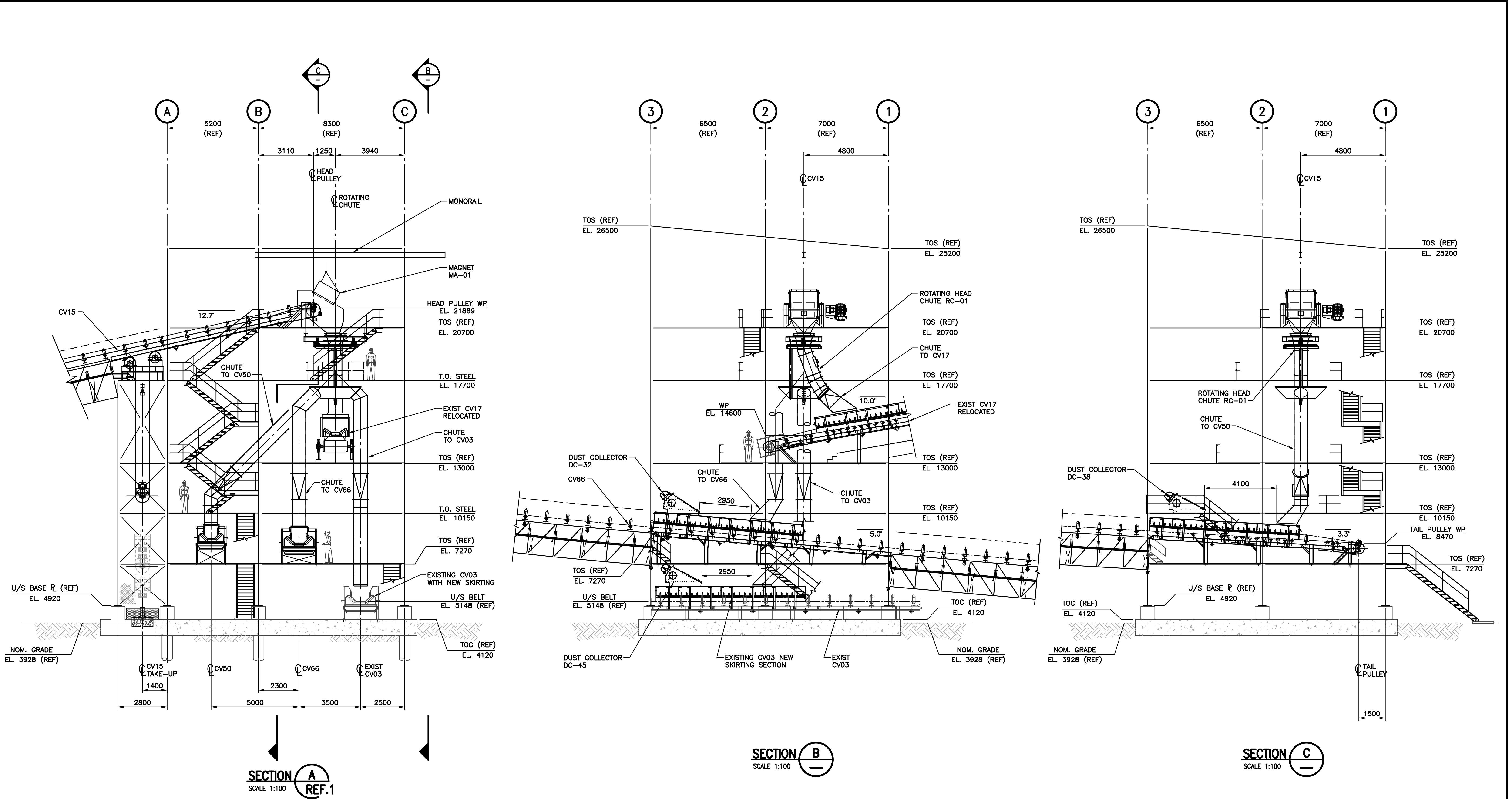
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North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P2	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P1	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED



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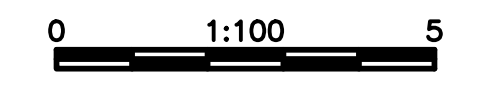
FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
INBOUND AREA TRANSFER TOWER 1 GENERAL ARRANGEMENT - PLANS				
15006	200	ME	040	P2
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



SECTION A
SCALE 1:100
REF.1

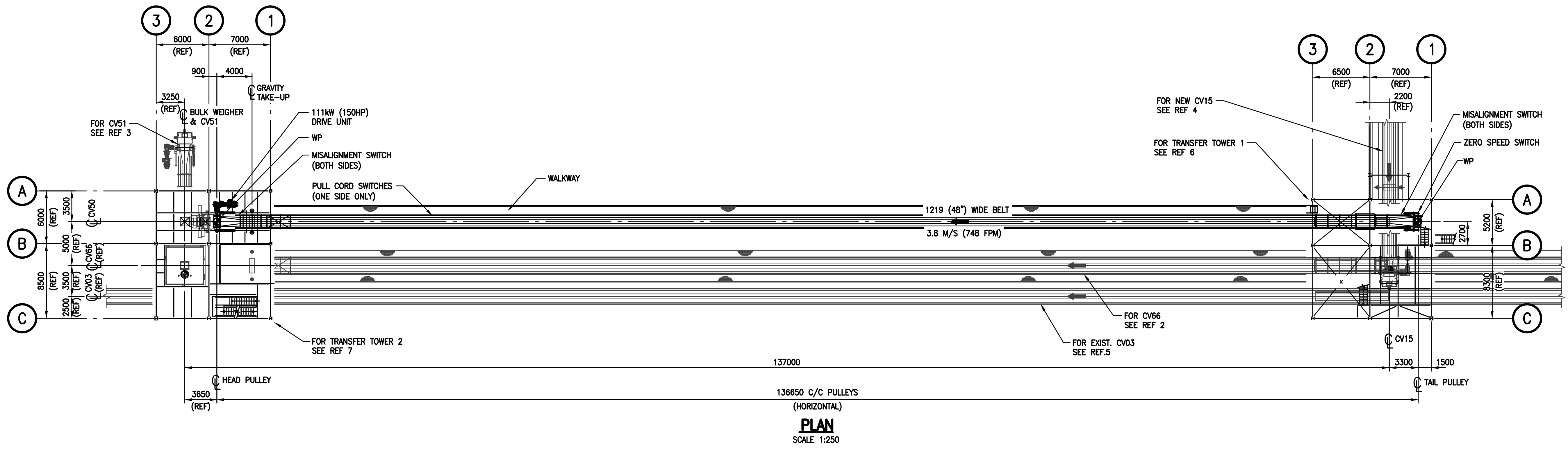
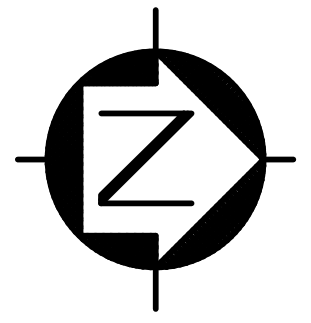
SECTION B
SCALE 1:100

SECTION C
SCALE 1:100

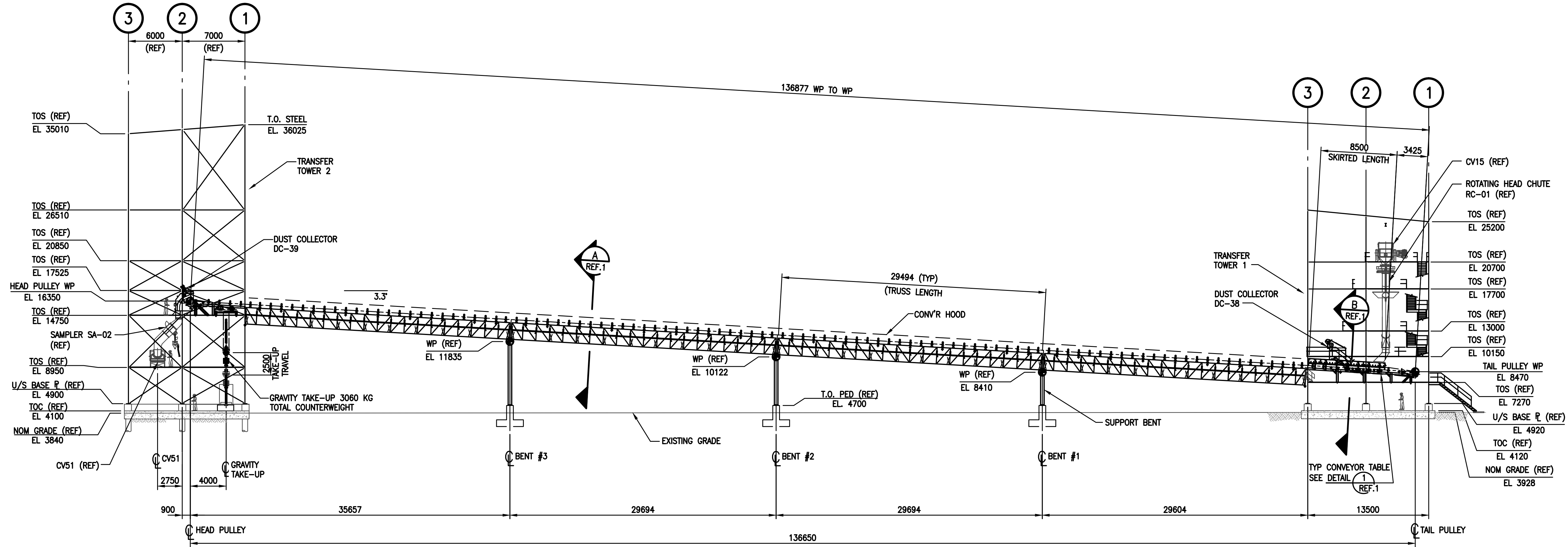


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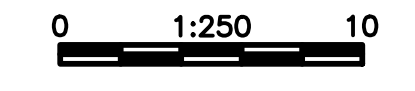
		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>									<p>www.cwaengineers.com</p>		<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C.</p>						
											<p>This drawing has been prepared by CWA Engineers Inc. as an instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>		<p>FIBRECO TERMINAL ENHANCEMENT PROJECT</p> <p>INBOUND AREA TRANSFER TOWER 1 SECTIONS</p>						
1	15006-200-ME-040	INBOUND AREA - TRANSFER TOWER 1 - G.A. - PLANS		No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	15006	200	ME	041	P2			
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:		CWA ACAD FILE: 15006-200-ME-041_P2.DWG		ISSUES / REVISIONS		* HAND INITIALS ON FILE				DRAWN BY: RLH/JHY SCALE: NOTED		PROJECT No.		AREA	DEPT.	DWG. No.	REV.



PLAN
SCALE 1:250



ELEVATION
SCALE 1:250



PRELIMINARY
NOT FOR CONSTRUCTION

REF.	DWG. NUMBER	DESCRIPTION
7	15006-400-ST-041	OUTBOUND AREA - TRANSFER TOWER 2 - PLANS
6	15006-200-ST-021	INBOUND AREA - TRANSFER TOWER 1 - PLANS
5	15006-400-ME-030	OUTBOUND AREA - CONVEYOR 03 - GEN ARRGT
4	15006-200-ME-035	INBOUND AREA - CONVEYOR 15 - GEN ARRGT
3	15006-200-ME-050	INBOUND AREA - CONVEYOR 51 - GEN ARRGT
2	15006-400-ME-020	OUTBOUND AREA - CONVEYOR 66 - GEN ARRGT
1	15006-200-ME-047	INBOUND AREA - CONVEYOR 50 - DETAILS



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CLIENT PROJECT No: CWA ACAD FILE: 15006-200-ME-045_P4.DWG

No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P4	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-
P1	2015-09-11	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-



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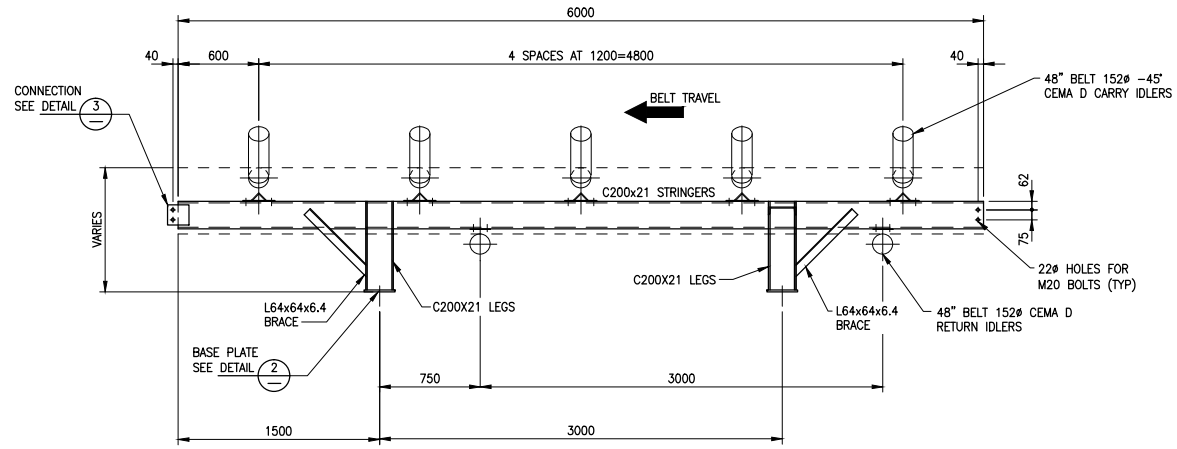
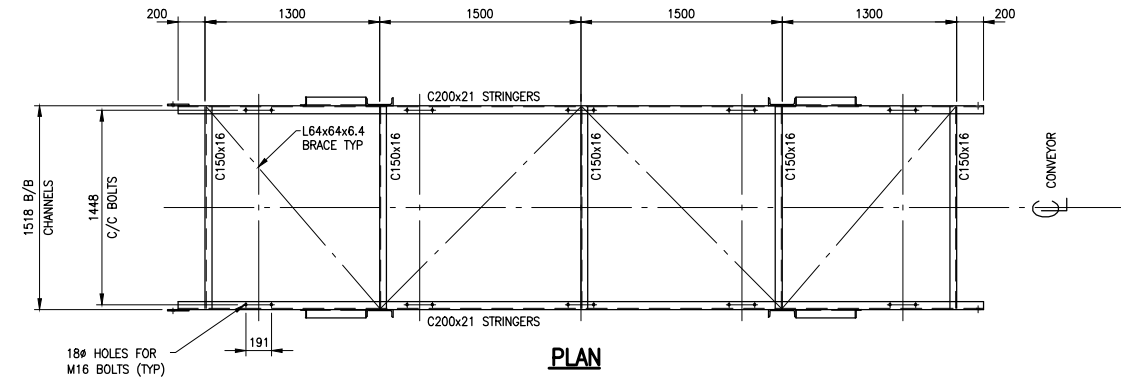
FIBRECO EXPORT INC.
NORTH VANCOUVER, B.C.
FIBRECO TERMINAL ENHANCEMENT PROJECT

INBOUND AREA
CONVEYOR 50
GENERAL ARRANGEMENT

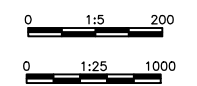
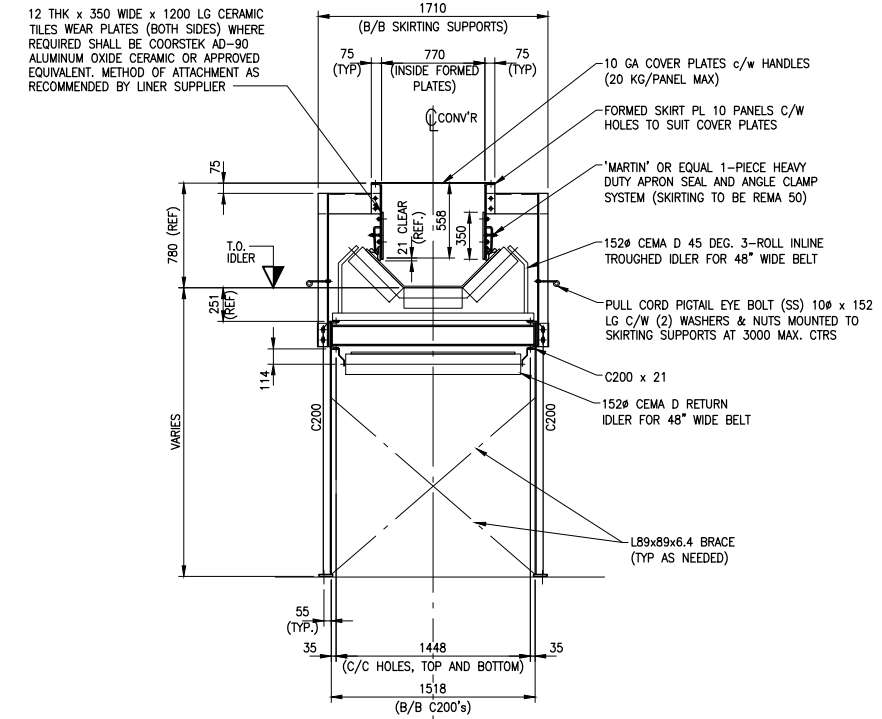
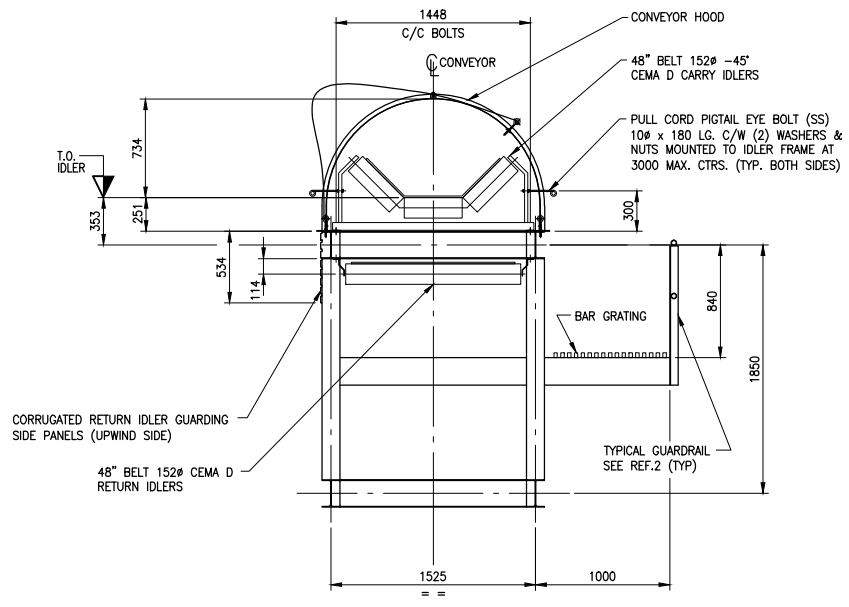
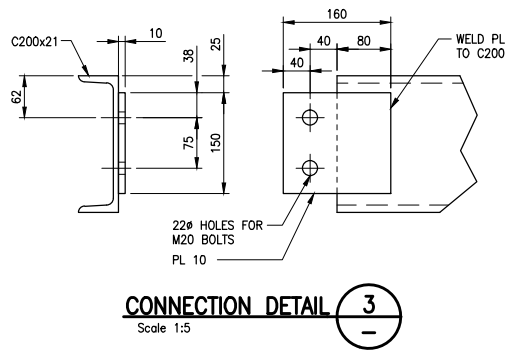
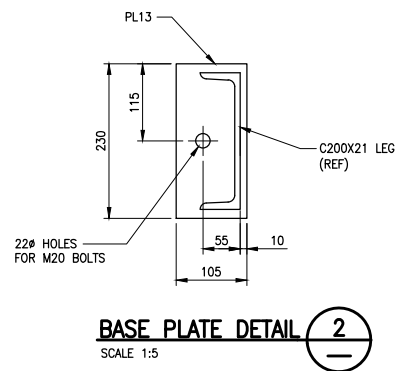
15006 200 ME 045 P4

PROJECT No. AREA DEPT. DWG. No. REV.

DRAWN BY: JHY SCALE: 1:250



TYPICAL CONV'R TABLE - DETAIL 1
SCALE 1:25



**PRELIMINARY
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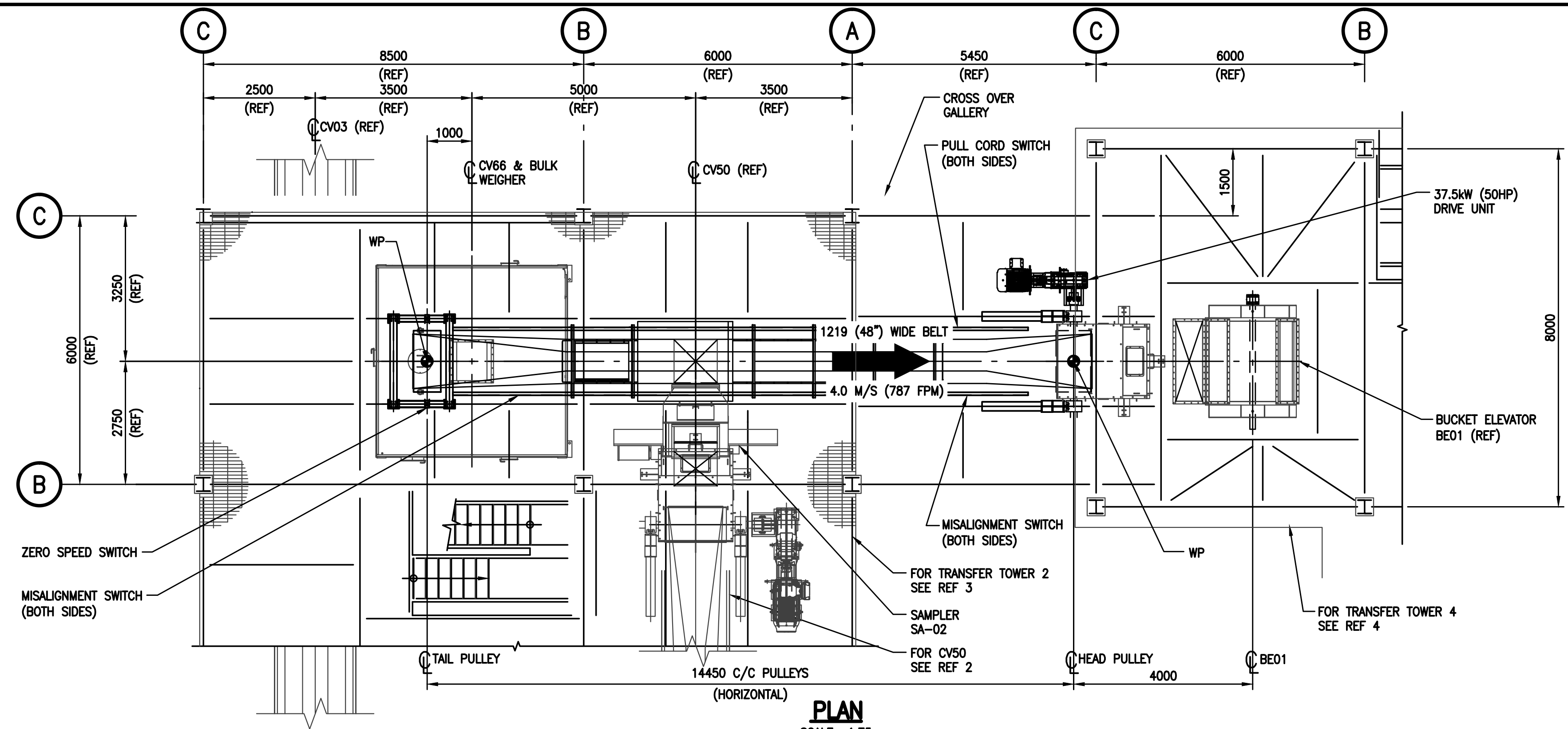
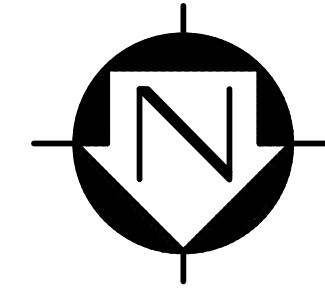
2	15006-100-ST-009	GEN STDS - STRUCTURAL STEEL - GUARDRAIL DETAILS
1	15006-200-ME-045	INBOUND AREA - CONVEYOR 50 - GEN ARRGT
REF.	DWG. NUMBER	DESCRIPTION

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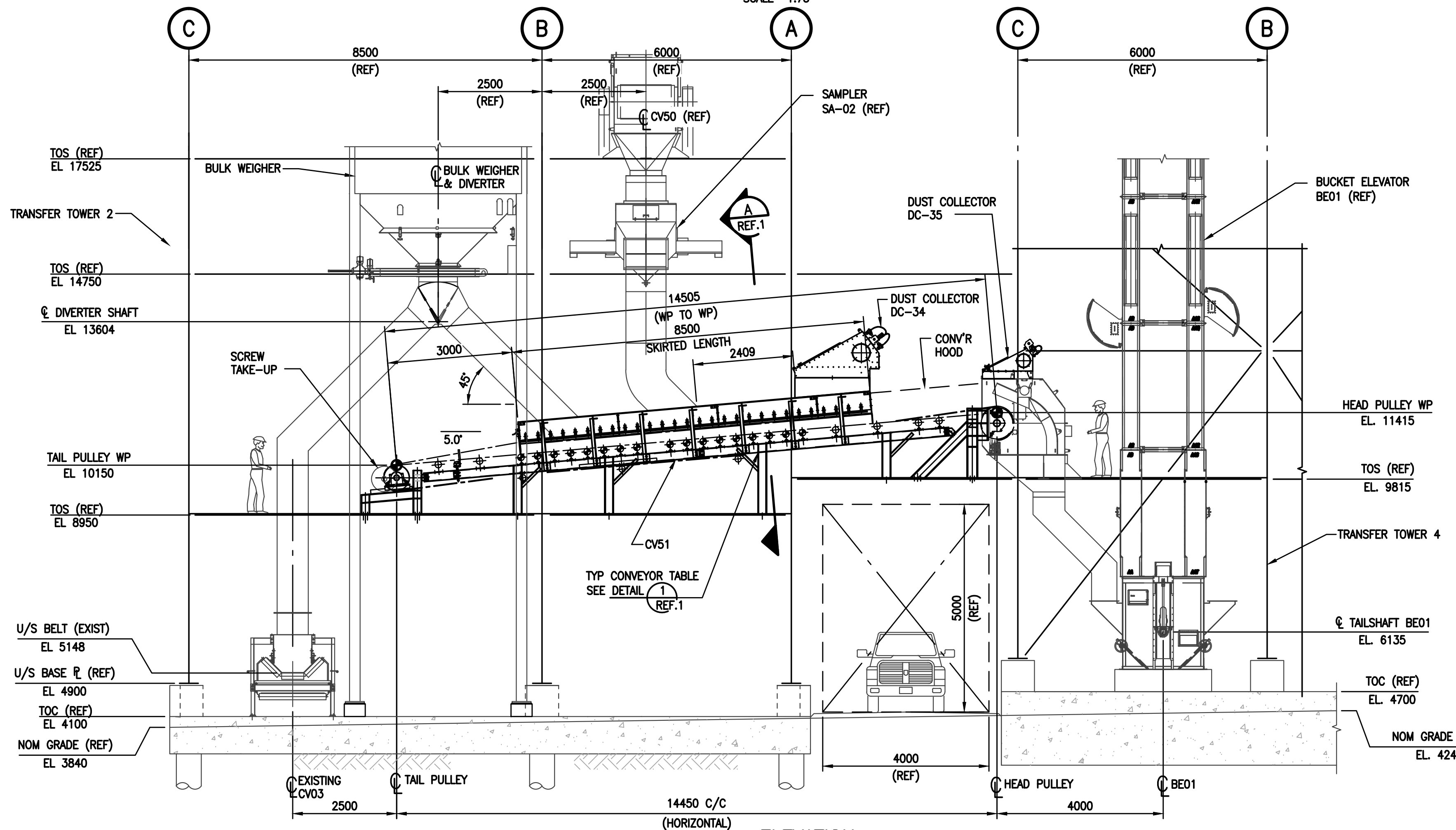
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-
P1	2015-09-11	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED

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FIBRECO TERMINAL ENHANCEMENT PROJECT				
INBOUND AREA CONVEYOR 50 DETAILS				
15006	200	ME	047	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



PLAN
SCALE 1:75



ELEVATION
SCALE 1:75



**PRELIMINARY
NOT FOR CONSTRUCTION**

REF.	DWG. NUMBER	DESCRIPTION
4	15006-300-ST-025	STORAGE AREA - TRANSFER TOWER 4 - PLANS
3	15006-400-ST-041	OUTBOUND AREA - TRANSFER TOWER 2 - PLANS
2	15006-200-ME-045	INBOUND AREA - CONVEYOR 50 - GEN ARRGT
1	15006-200-ME-052	INBOUND AREA - CONVEYOR 51 - DETAILS



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No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P5	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P4	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P3	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-
P2	2015-09-18	EXTENDED CONVEYOR 51	JHY	-	-	-	-
P1	2015-09-11	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-

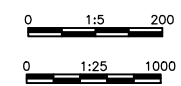
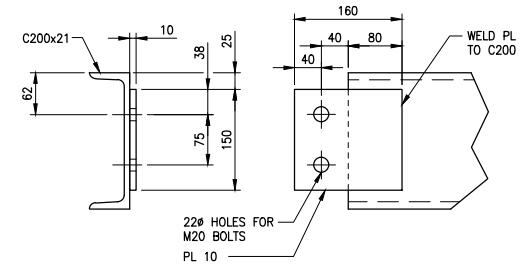
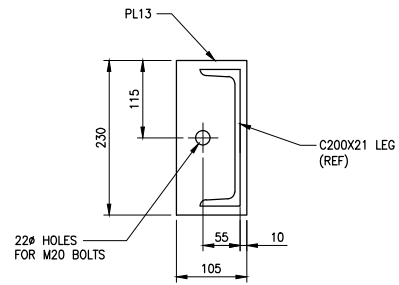
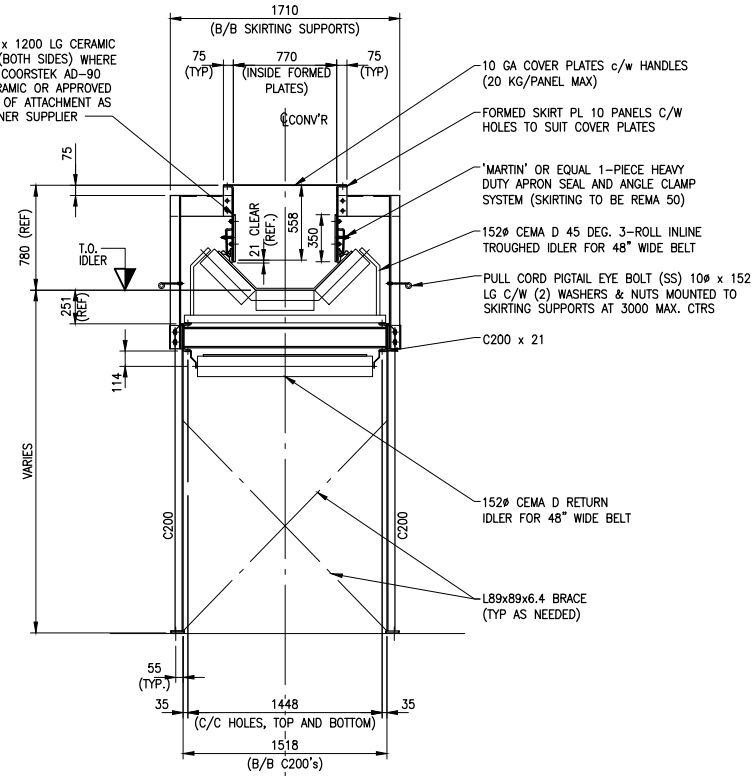
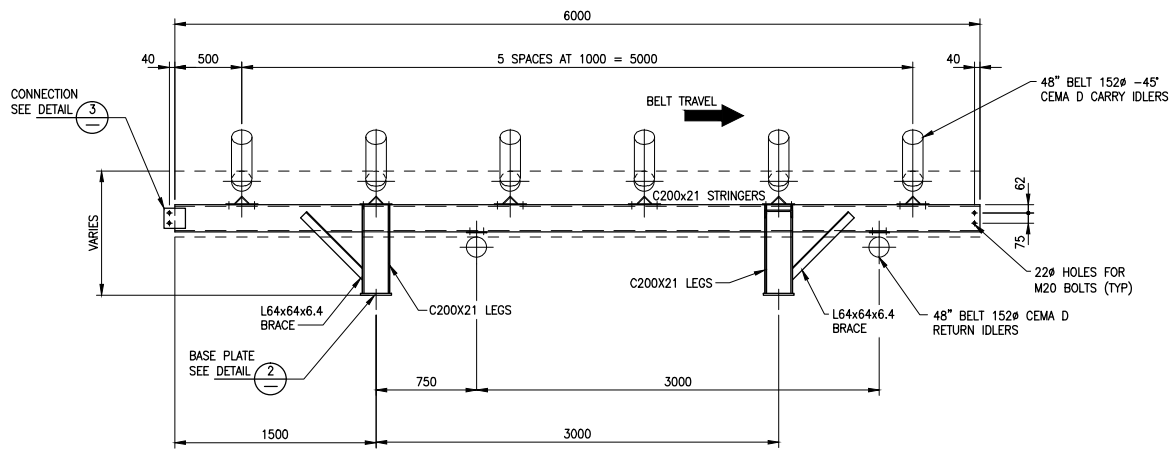
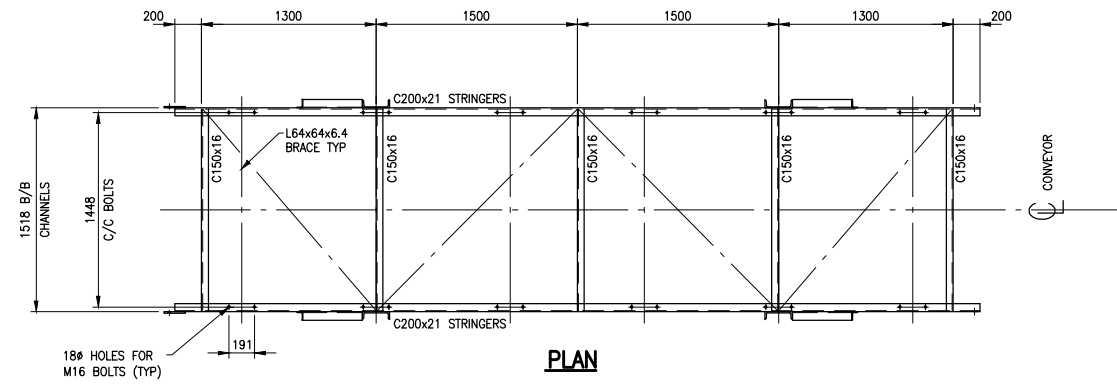


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FIBRECO TERMINAL ENHANCEMENT PROJECT

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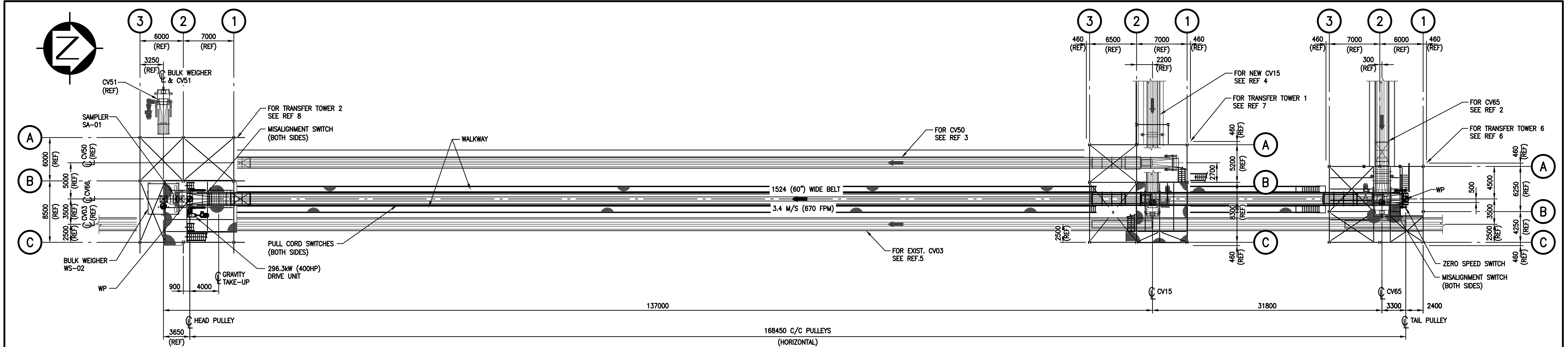
**INBOUND AREA
CONVEYOR 51
GENERAL ARRANGEMENT**

15006	200	ME	050	P5
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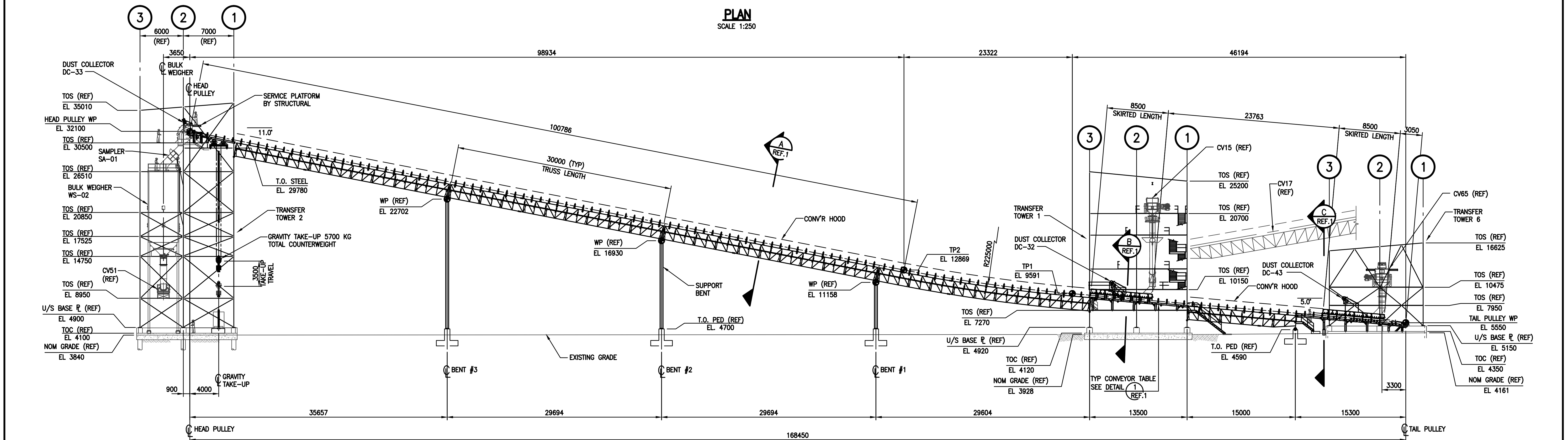


**PRELIMINARY
NOT FOR CONSTRUCTION**

		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>							<p>www.cwaengineers.com</p>		<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p>	
									<p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>		<p>INBOUND AREA CONVEYOR 51 DETAILS</p>	
1	15006-200-ME-050	INBOUND AREA - CONVEYOR 51 - GEN ARRGT		P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	
				P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-	
				P1	2015-09-11	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-	
REF.	DWG. NUMBER	DESCRIPTION		No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:		CWA ACAD FILE: 15006-200-ME-052.DWG		ISSUES / REVISIONS		* HAND INITIALS ON FILE		DRAWN BY: JHY SCALE: AS NOTED		
				PROJECT No.	AREA	DEPT.	DWG. No.	REV.				



PLAN
SCALE 1:250



ELEVATION
SCALE 1:250

0 1:250 10

PRELIMINARY
NOT FOR CONSTRUCTION

REF.	DWG. NUMBER	DESCRIPTION
8	15006-400-ST-041	OUTBOUND AREA - TRANSFER TOWER 2 - PLANS
7	15006-200-ST-021	INBOUND AREA - TRANSFER TOWER 1 - PLANS
6	15006-400-ST-021	OUTBOUND AREA - TRANSFER TOWER 6 - PLANS
5	15006-400-ME-030	INBOUND AREA - CONVEYOR 03 - GEN ARRGT
4	15006-200-ME-035	INBOUND AREA - CONVEYOR 15 - GEN ARRGT
3	15006-200-ME-045	INBOUND AREA - CONVEYOR 50 - GEN ARRGT
2	15006-400-ME-010	OUTBOUND AREA - CONVEYOR 65 - GEN ARRGT
1	15006-200-ME-062	INBOUND AREA - CONVEYOR 66 - DETAILS



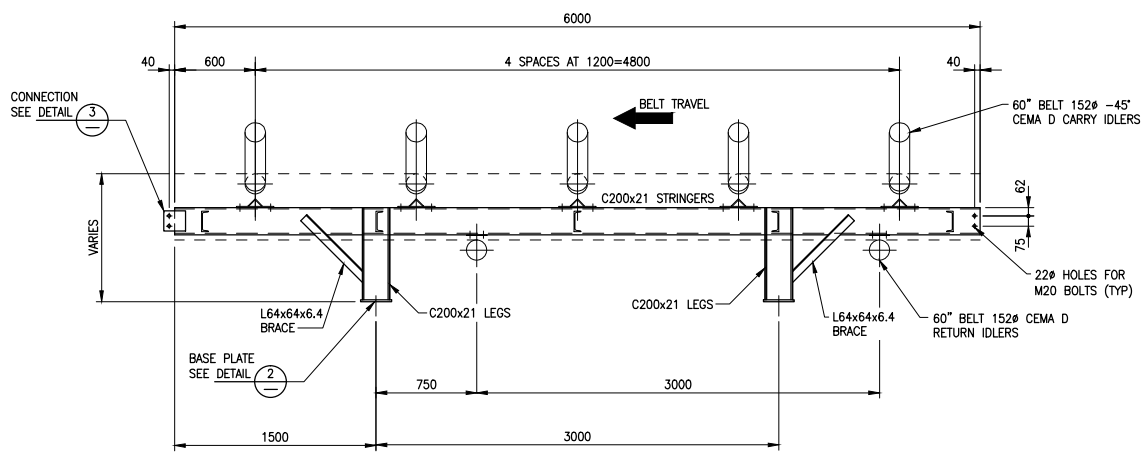
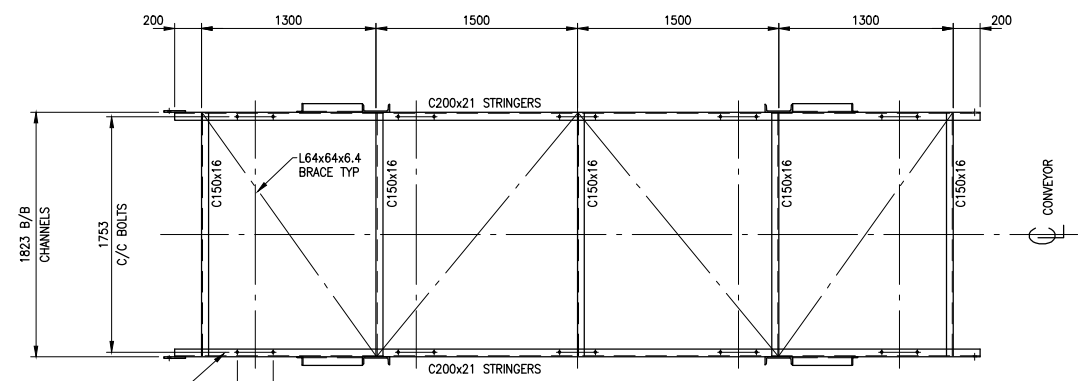
FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P2	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P1	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING) WAS DRAWING #15006-400-ME-020	JHY	HSN	BTR	HSN	-

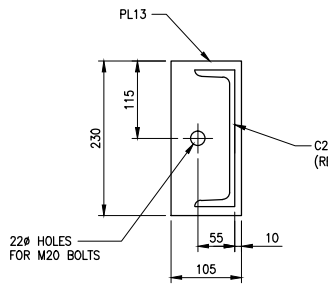


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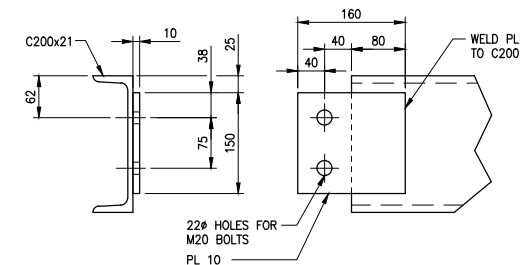
FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
INBOUND AREA				
CONVEYOR 66				
GENERAL ARRANGEMENT				
15006	200	ME	060	P2
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



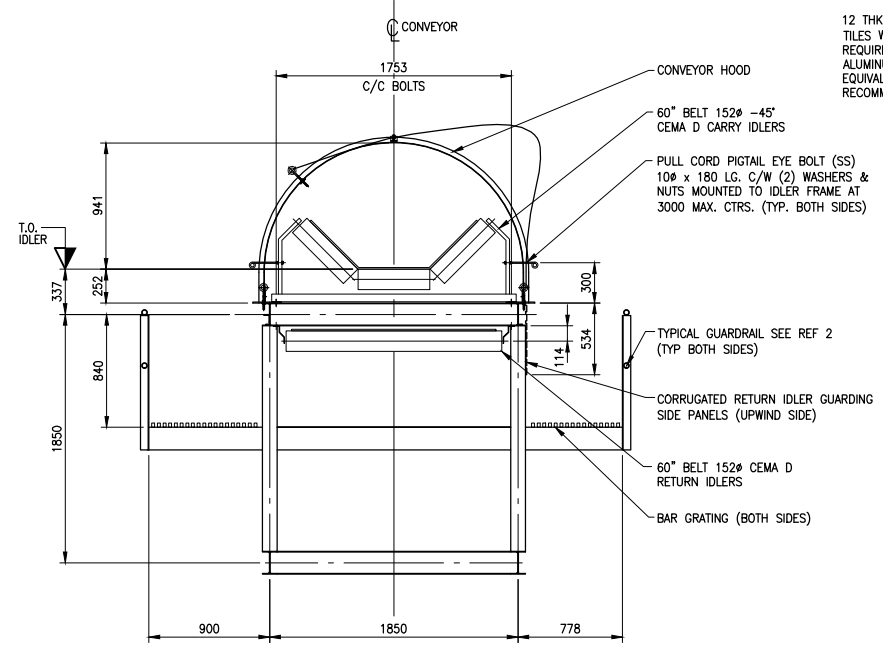
TYPICAL CONV'R TABLE - DETAIL 1
SCALE: 1:25 REF.1



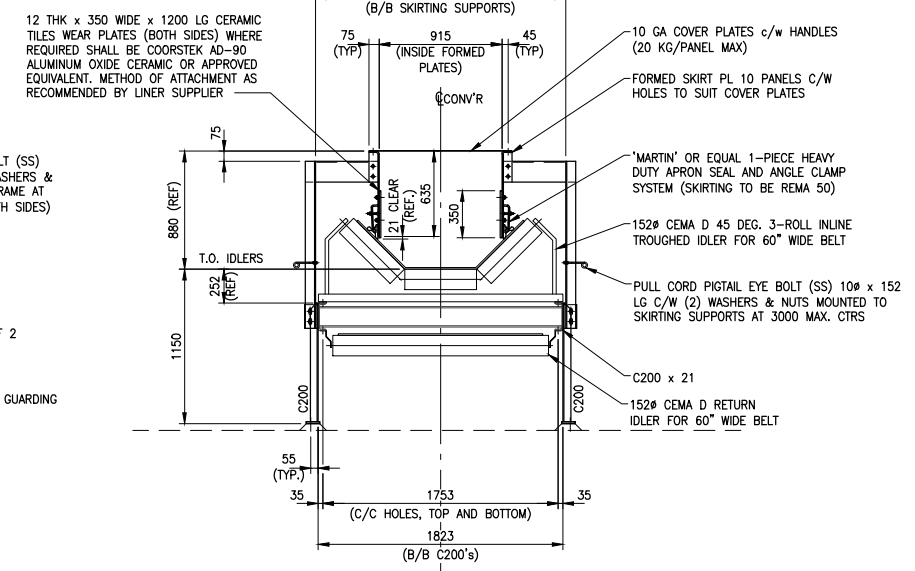
BASE PLATE DETAIL 2
SCALE: 1:5



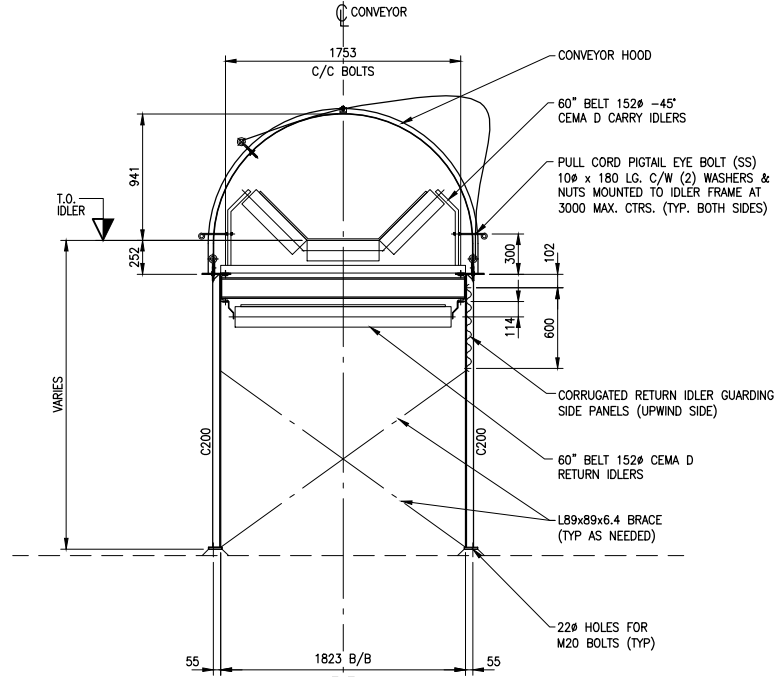
CONNECTION DETAIL 3
SCALE: 1:5



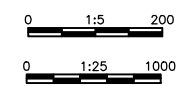
SECTION A
SCALE: 1:25 REF.1



SECTION B
SCALE: 1:25 REF.1



SECTION C
SCALE: 1:25 REF.1



**PRELIMINARY
NOT FOR CONSTRUCTION**

2	15006-100-ST-009	GEN STDS - STRUCTURAL STEEL - GUARDRAIL DETAILS
1	15006-200-ME-060	INBOUND AREA - CONVEYOR 66 - GEN ARRGT
REF.	DWG. NUMBER	DESCRIPTION



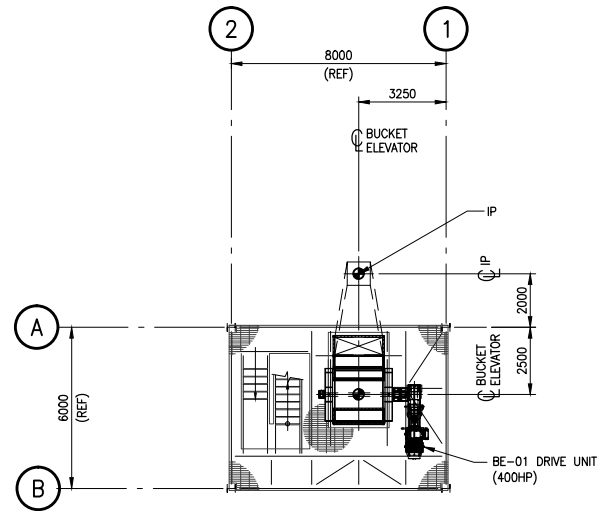
FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

P1	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING) WAS DRAWING #15006-400-ME-022	JHY	HSN	BTR	HSN	-
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED

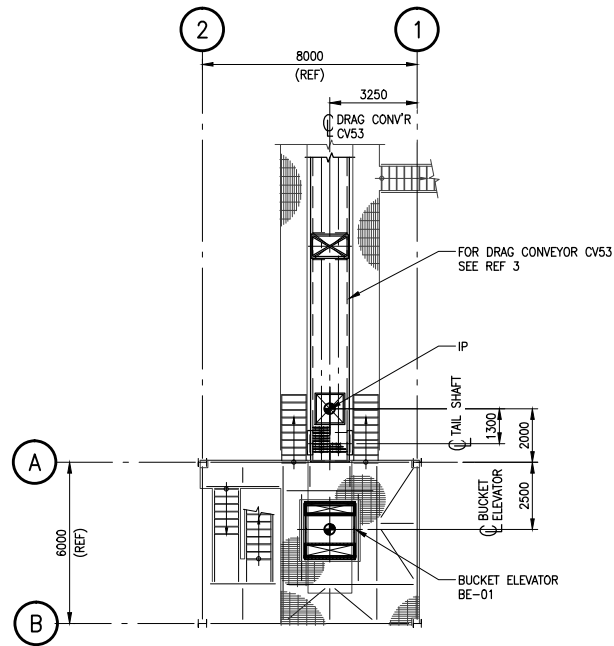


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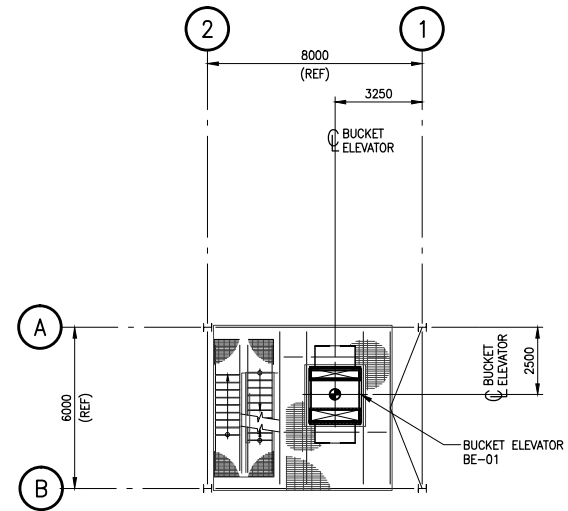
FIBRECO EXPORT INC. NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
INBOUND AREA CONVEYOR 66 DETAILS				
15006	200	ME	062	P1
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



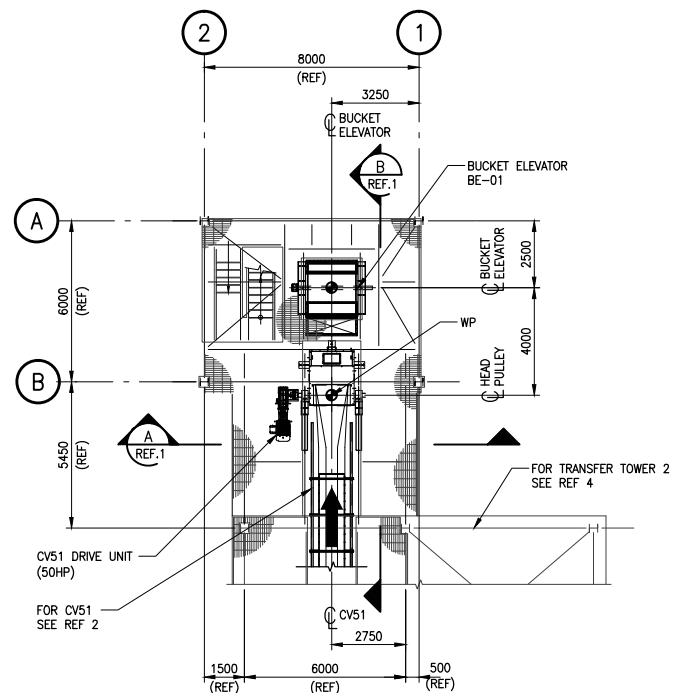
PLAN - T.O. STEEL EL. 57.548m
1:125



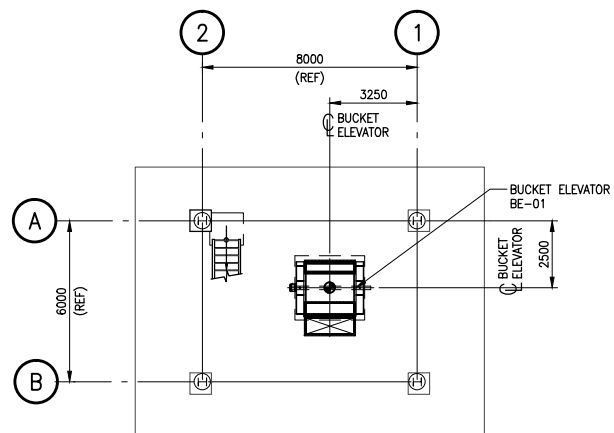
PLAN - T.O. STEEL EL. 52.348m
1:125



PLAN - CL STEEL EL. 45.815m TO EL. 15.815m
1:125



PLAN - T.O. STEEL EL. 9.815m
1:125



PLAN - T.O. CONC EL. 4.700m
1:125

0 1:125 5

**PRELIMINARY
NOT FOR CONSTRUCTION**

REF.	DWG. NUMBER	DESCRIPTION
4	15006-400-ST-041	OUTBOUND AREA - TRANSFER TOWER 2 - PLANS
3	15006-300-ME-022	STORAGE AREA - DRAG CONVEYORS - SETTING PLAN
2	15006-200-ME-050	INBOUND AREA - CONVEYOR 51 - GEN ARRGT
1	15006-300-ME-021	STORAGE AREA - TRANSFER TOWER 4 - SECTIONS



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No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-



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FIBRECO EXPORT INC. NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
STORAGE AREA TRANSFER TOWER 4 GENERAL ARRANGEMENT - PLANS				
15006	300	ME	020	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.

REFERENCE DRAWINGS / DESIGN STANDARDS

CLIENT PROJECT No:

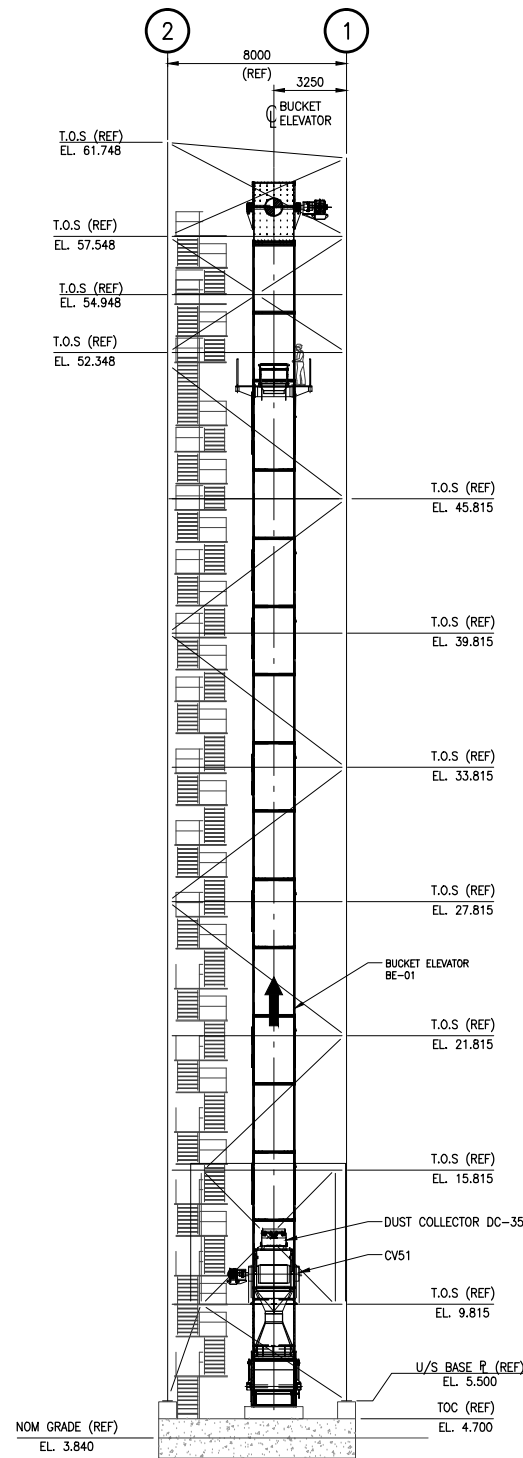
CWA ACAD FILE: 15006-300-ME-020-021.DWG

ISSUES / REVISIONS

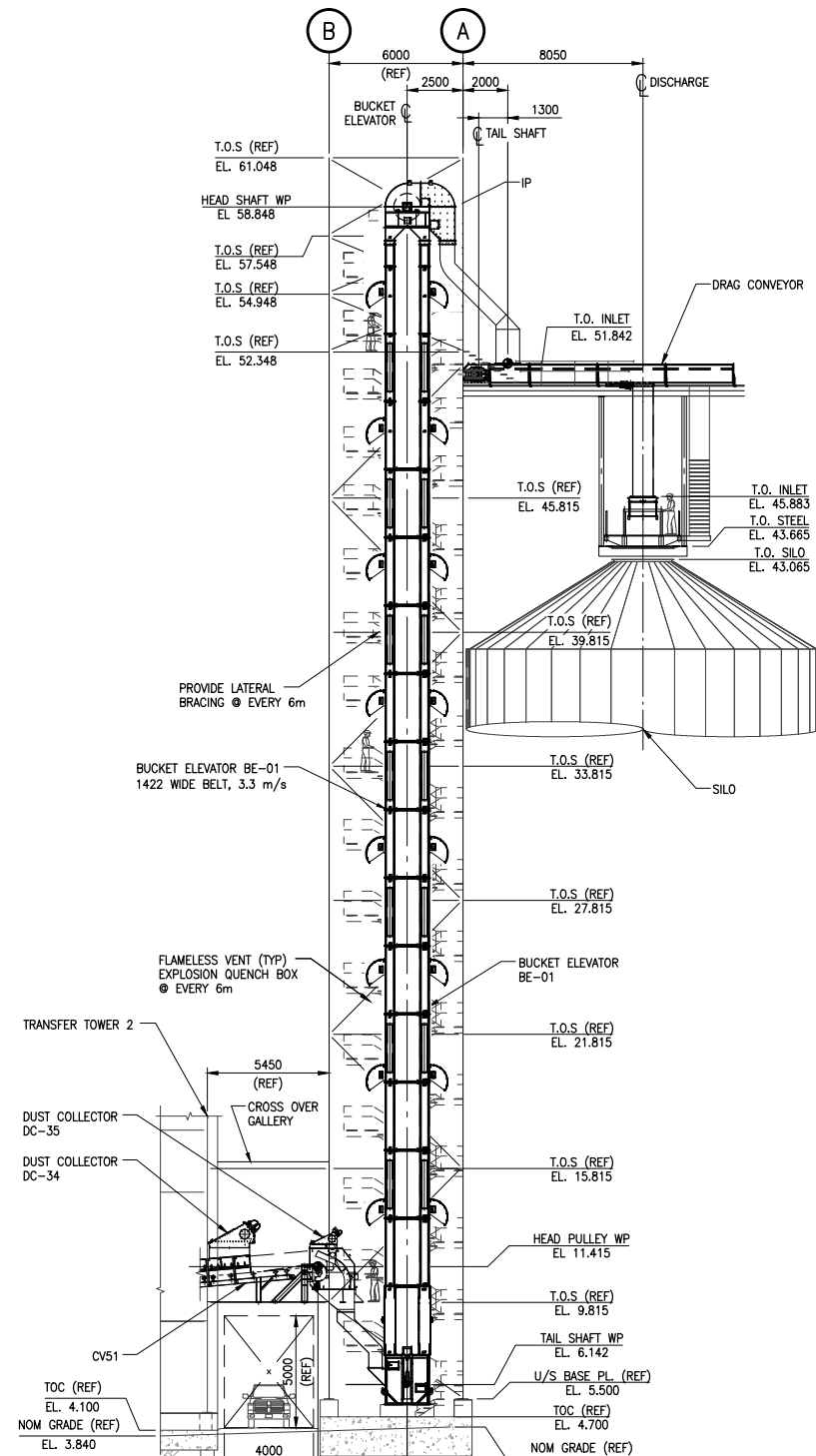
* HAND INITIALS ON FILE

DRAWN BY: JHY SCALE: 1:125

PROJECT No. AREA DEPT. DWG. No. REV.



SECTION A
SCALE 1:150
REF.1



SECTION B
SCALE 1:150
REF.1

0 1:125 5

PRELIMINARY
NOT FOR CONSTRUCTION

1	15006-300-ME-020	STORAGE AREA-TRANSFER TOWER 3-GEN ARRGT-PLANS
REF.	DWG. NUMBER	DESCRIPTION



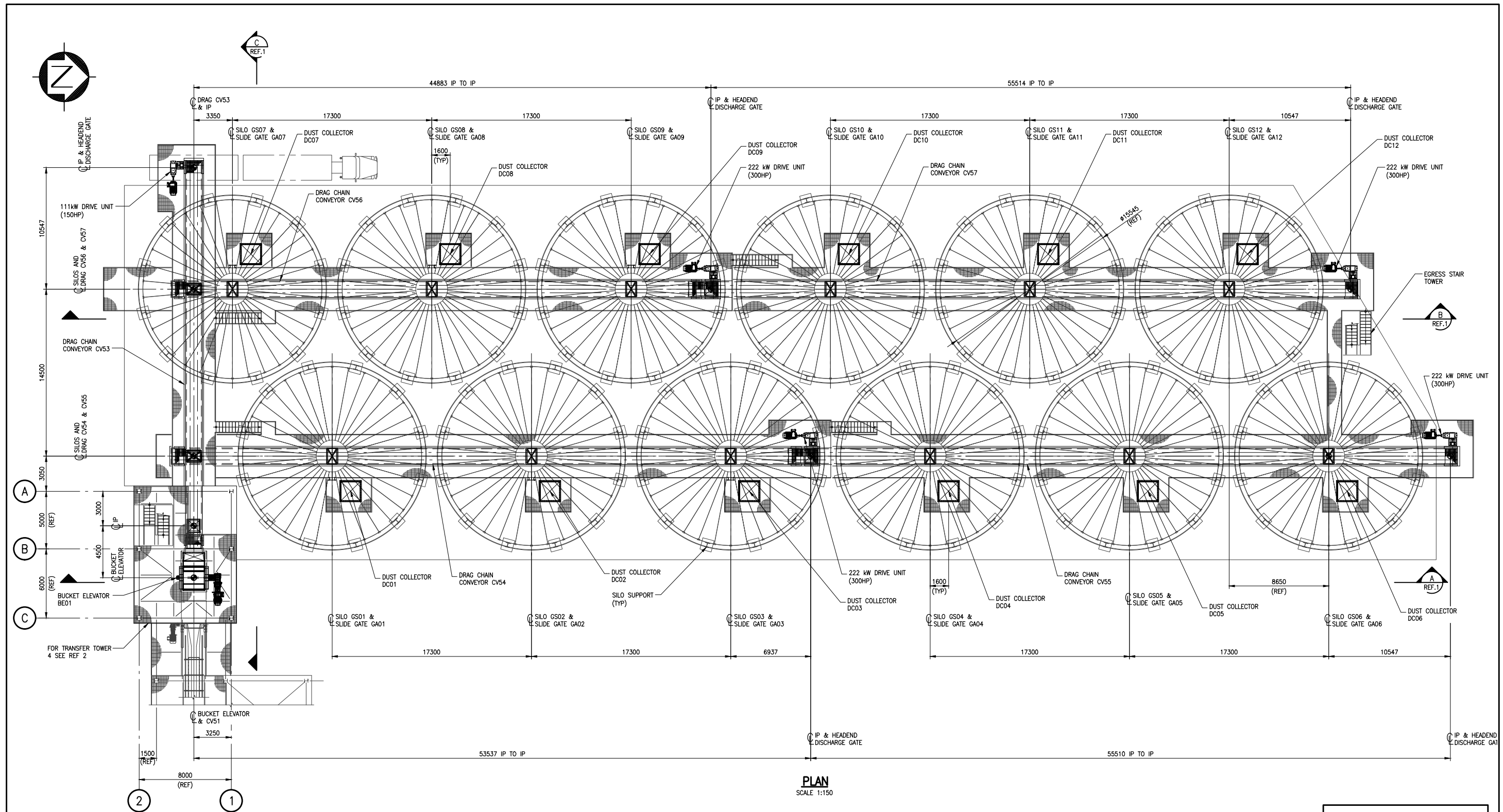
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V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

P3	2016-08-26	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JRM		RCW				
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	-	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-	-	-
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED		

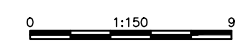


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FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
STORAGE AREA TRANSFER TOWER 4 SECTIONS				
15006	300	ME	021	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



**PRELIMINARY
NOT FOR CONSTRUCTION**



REF.	DWG. NUMBER	DESCRIPTION
2	15006-300-ST-025	STORAGE AREA - TRANSFER TOWER 4 - PLANS
1	15006-300-ME-023	STORAGE AREA - DRAG CHAIN CONVEYORS - SECTIONS



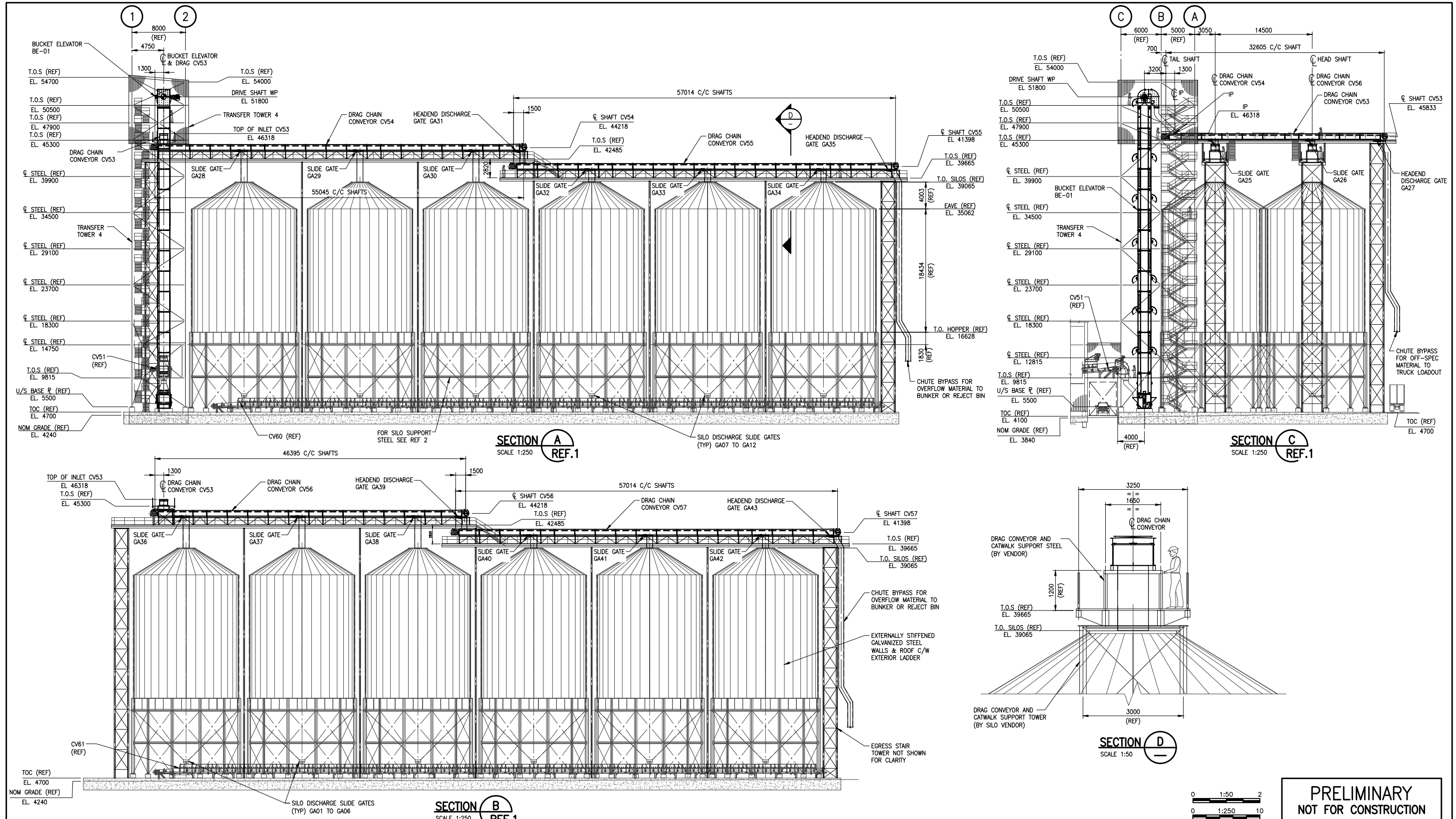
FIBRECO EXPORT INC.
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North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P2	2015-11-12	ISSUED FOR PRELIMINARY PERMIT APPLICATION	JHY	-	-	-	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED



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FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
STORAGE AREA DRAG CHAIN CONVEYORS SETTING PLAN				
15006	300	ME	022	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



REF.	DWG. NUMBER	DESCRIPTION
2	15006-300-ST-030	STORAGE AREA - SILO SUPPORT STEEL - PLAN, ELEV & SECT
1	15006-300-ME-022	STORAGE AREA - DRAG CHAIN CONVEYORS - SETTING PLANS



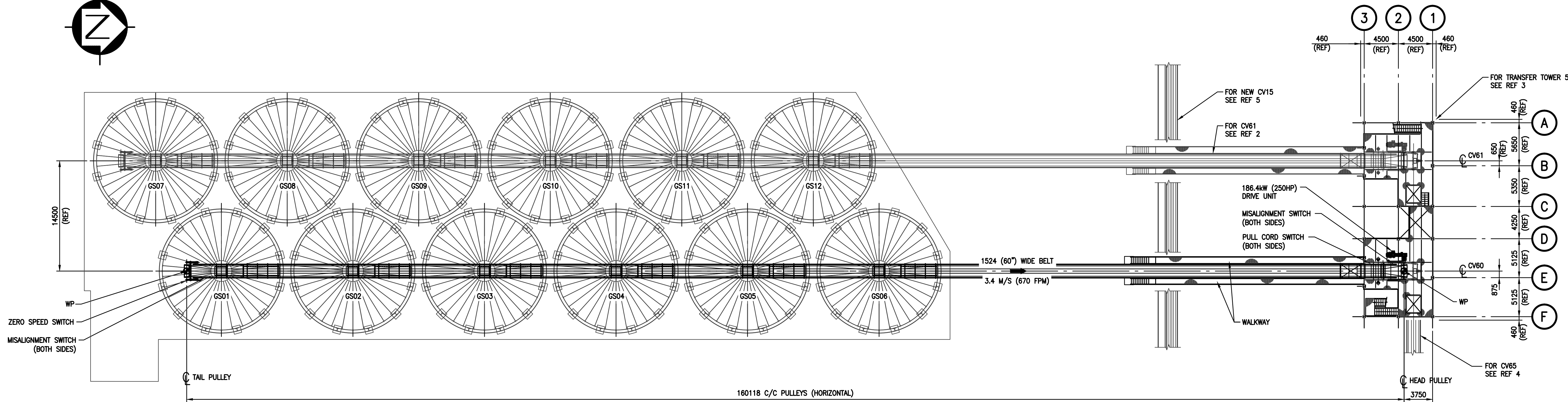
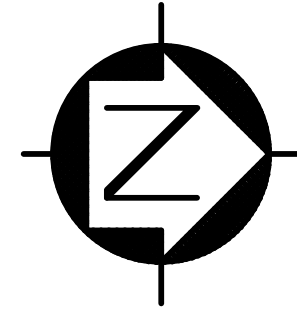
FIBRECO EXPORT INC.
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North Vancouver, B.C.
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TEL: (604) 980-6543
FAX: (604) 984-2593

No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P2	2015-11-12	ISSUED FOR PRELIMINARY PERMIT APPLICATION	JHY	-	-	-	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-



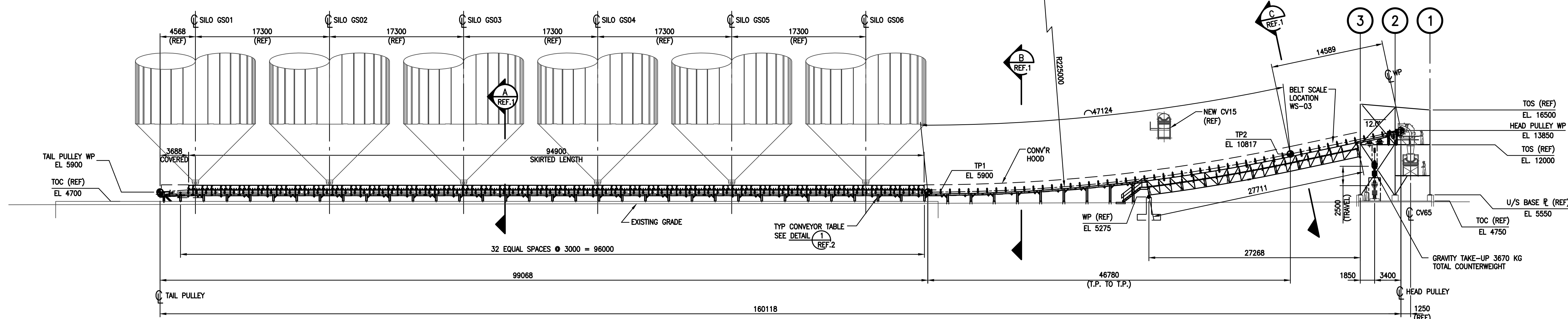
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FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
STORAGE AREA DRAG CHAIN CONVEYORS SECTIONS				
15006	300	ME	023	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



160118 C/C PULLEYS (HORIZONTAL)

PLAN
SCALE 1:250



160118

ELEVATION
SCALE 1:250



**PRELIMINARY
NOT FOR CONSTRUCTION**

REF.	DWG. NUMBER	DESCRIPTION
5	15006-200-ME-035	INBOUND AREA - CONVEYOR 15 - GEN ARRGT
4	15006-400-ME-010	OUTBOUND AREA - CONVEYOR 65 - GEN ARRGT
3	15006-300-ST-061	STORAGE AREA - TRANSFER TOWER 5 - PLANS
2	15006-300-ME-035	STORAGE AREA - CONVEYOR 61 - GEN ARRGT
1	15006-300-ME-032	STORAGE AREA - CONVEYOR 60 - DETAILS



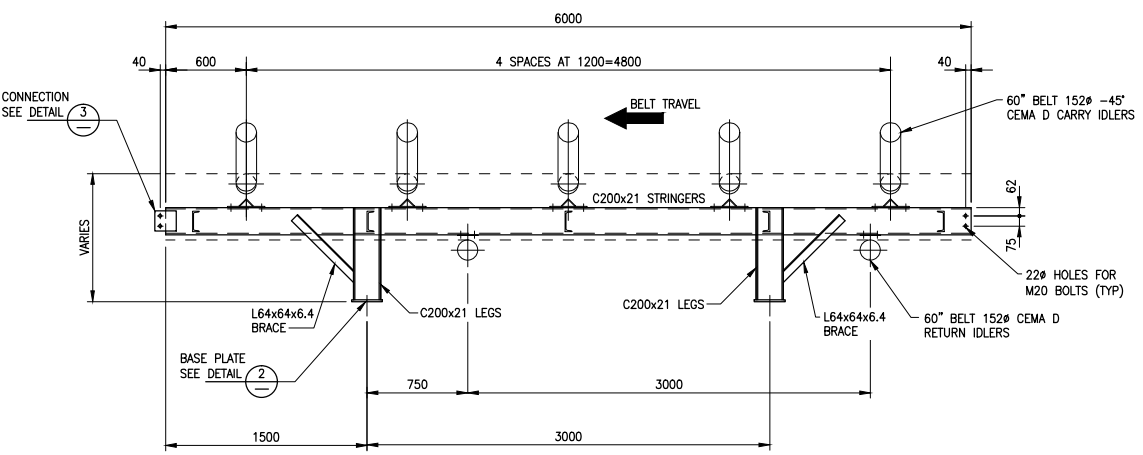
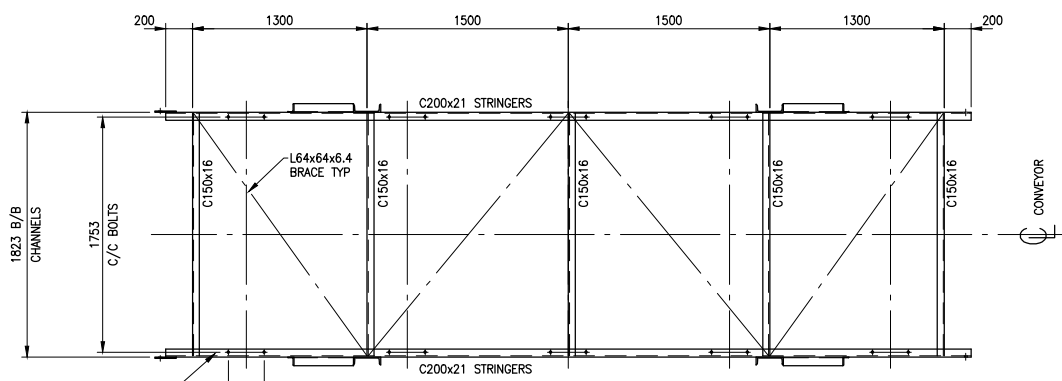
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FAX: (604) 984-2593

No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P4	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-
P1	2015-09-11	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-



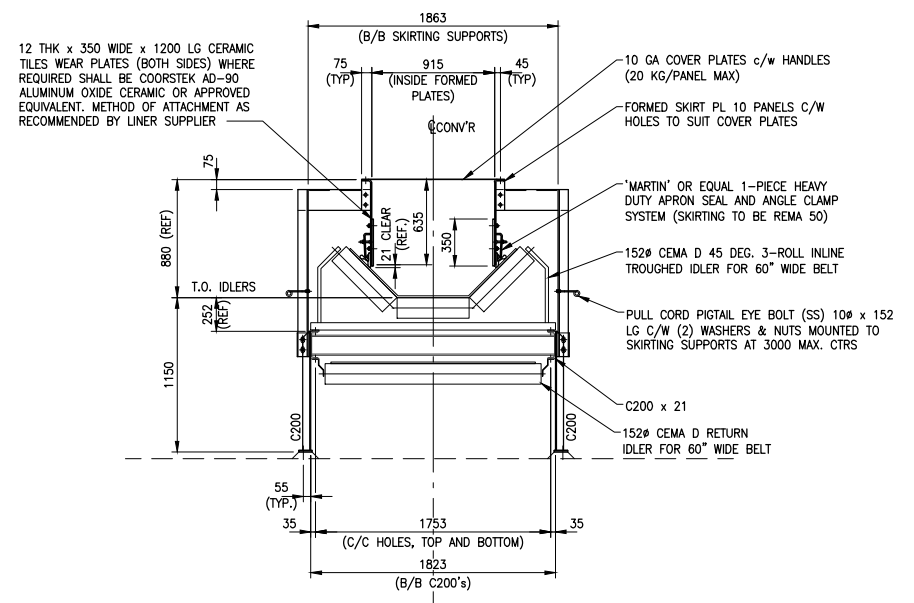
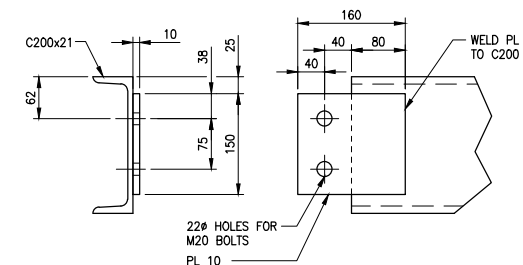
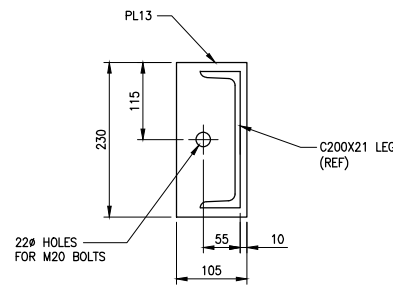
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FIBRECO TERMINAL ENHANCEMENT PROJECT				
STORAGE AREA CONVEYOR 60 GENERAL ARRANGEMENT				
15006	300	ME	030	P4
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



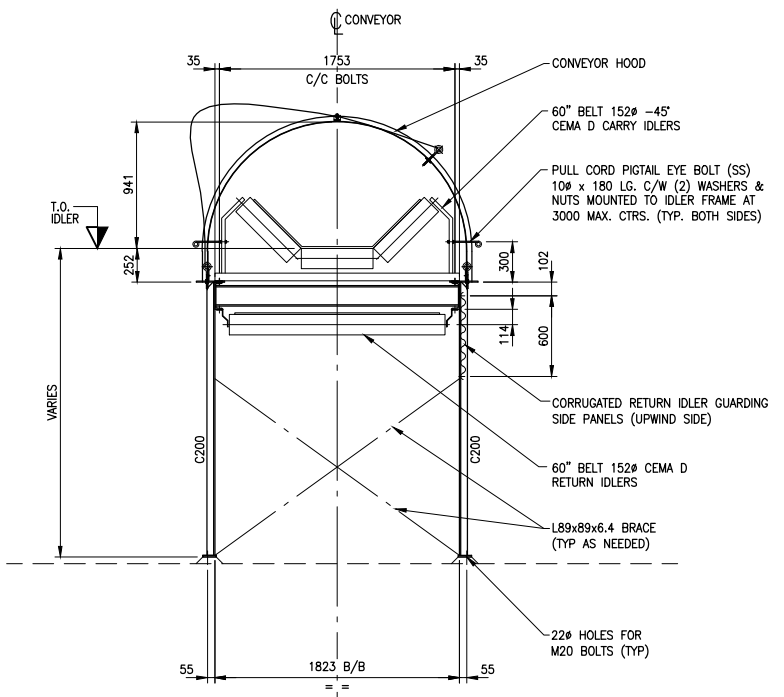
TYPICAL CONV'R TABLE - DETAIL 1
SCALE: 1:25
REF.1

DETAIL 1
SCALE: 1:25
REF.2



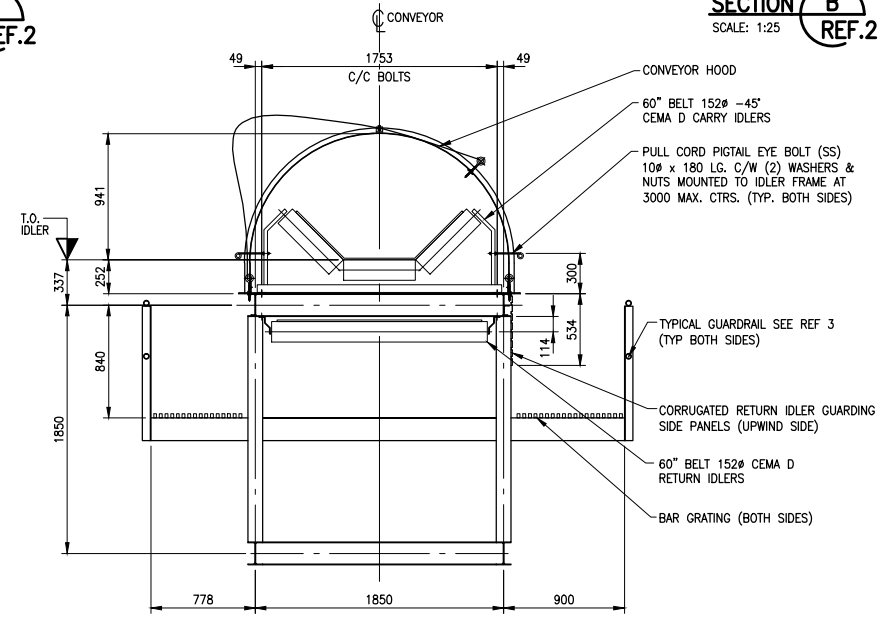
SECTION A
SCALE: 1:25
REF.1

SECTION A
SCALE: 1:25
REF.2



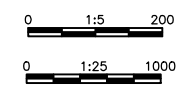
SECTION B
SCALE: 1:25
REF.1

SECTION B
SCALE: 1:25
REF.2



SECTION C
SCALE: 1:25
REF.1

SECTION C
SCALE: 1:25
REF.2



PRELIMINARY NOT FOR CONSTRUCTION

3	15006-100-ST-009	GEN STDS - STRUCTURAL STEEL - GUARDRAIL DETAILS
2	15006-300-ME-035	STORAGE AREA - CONVEYOR 61 - GEN ARRGT
1	15006-300-ME-030	STORAGE AREA - CONVEYOR 60 - GEN ARRGT
REF.	DWG. NUMBER	DESCRIPTION



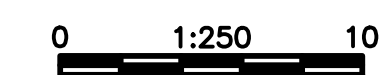
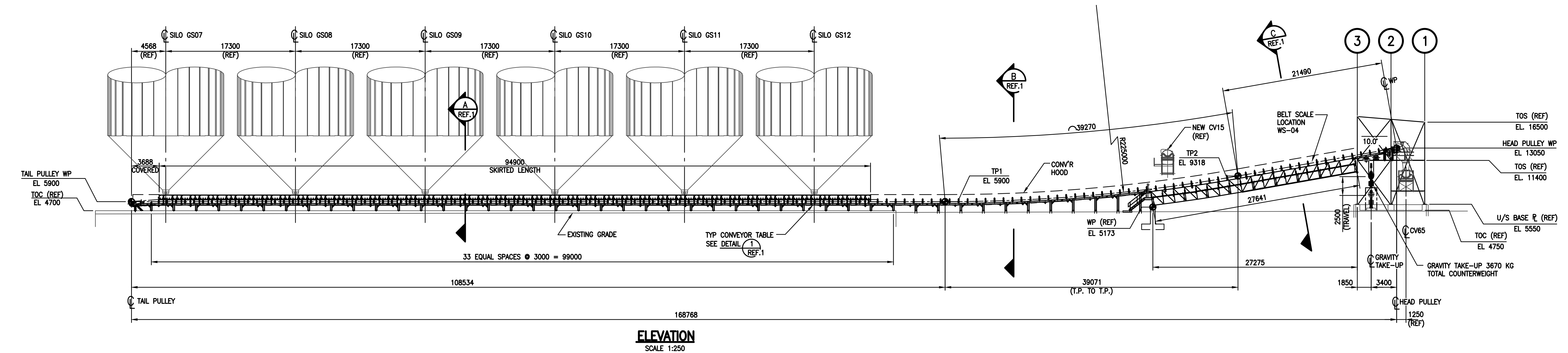
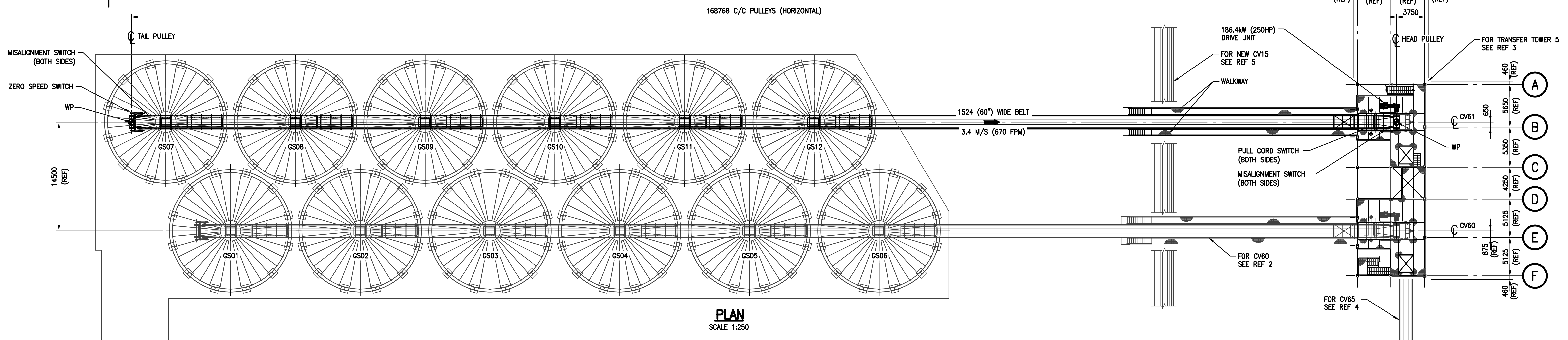
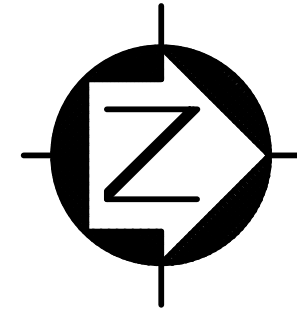
FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	-
P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-	-
P1	2015-09-11	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-	-
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	



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FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
STORAGE AREA CONVEYOR 60/61 DETAILS				
15006	300	ME	032	P3
REF.	DWG. NUMBER	DESCRIPTION	DWG. No.	REV.



**PRELIMINARY
NOT FOR CONSTRUCTION**

REF.	DWG. NUMBER	DESCRIPTION
5	15006-200-ME-035	INBOUND AREA - CONVEYOR 15 - GEN ARRGT
4	15006-400-ME-010	OUTBOUND AREA - CONVEYOR 65 - GEN ARRGT
3	15006-300-ST-061	STORAGE AREA - TRANSFER TOWER 5 - PLANS
2	15006-300-ME-030	STORAGE AREA - CONVEYOR 60 - GEN ARRGT
1	15006-300-ME-032	STORAGE AREA - CONVEYOR 60 - DETAILS



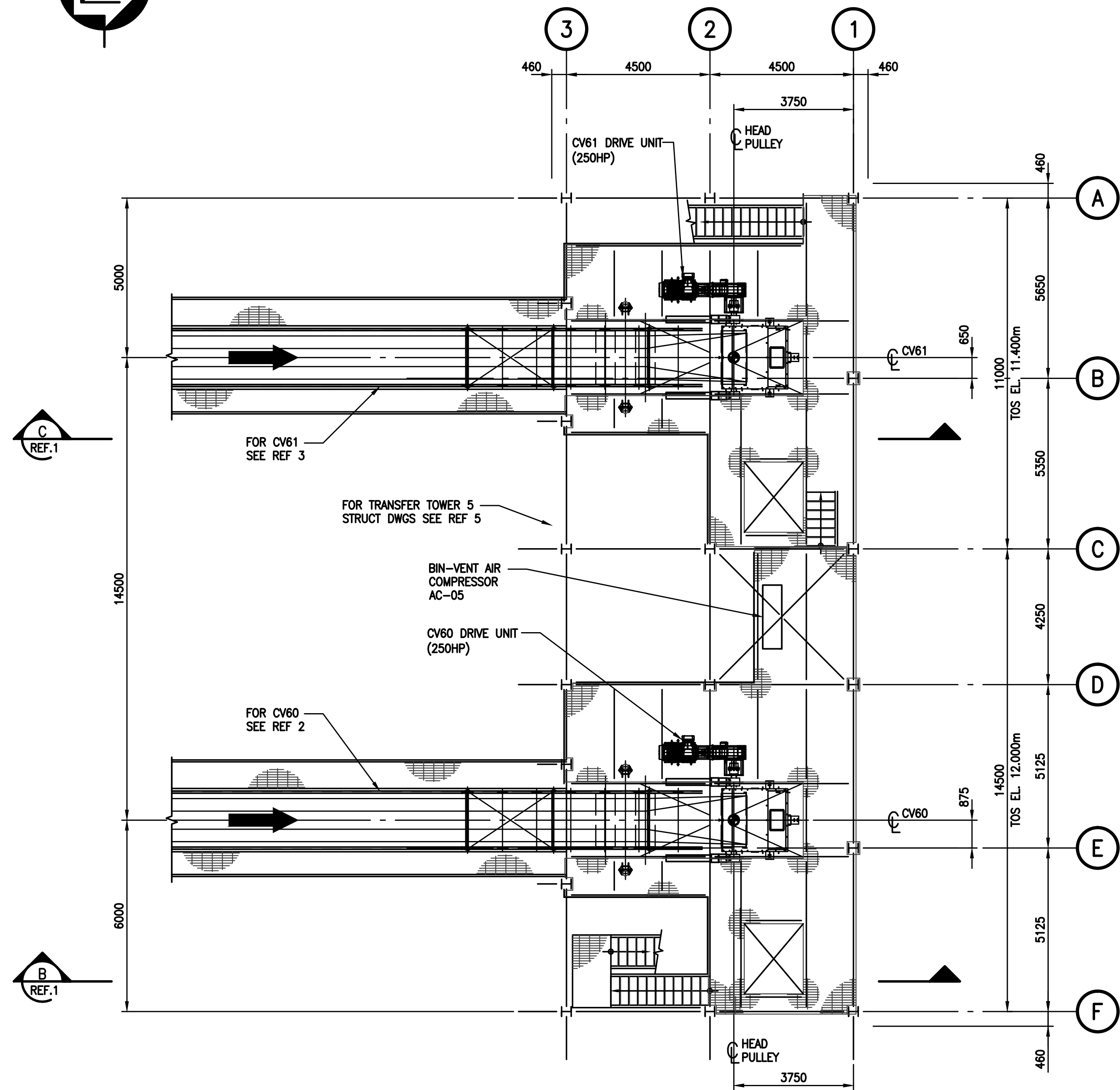
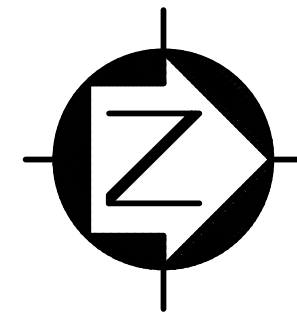
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North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P4	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-
P1	2015-09-11	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-



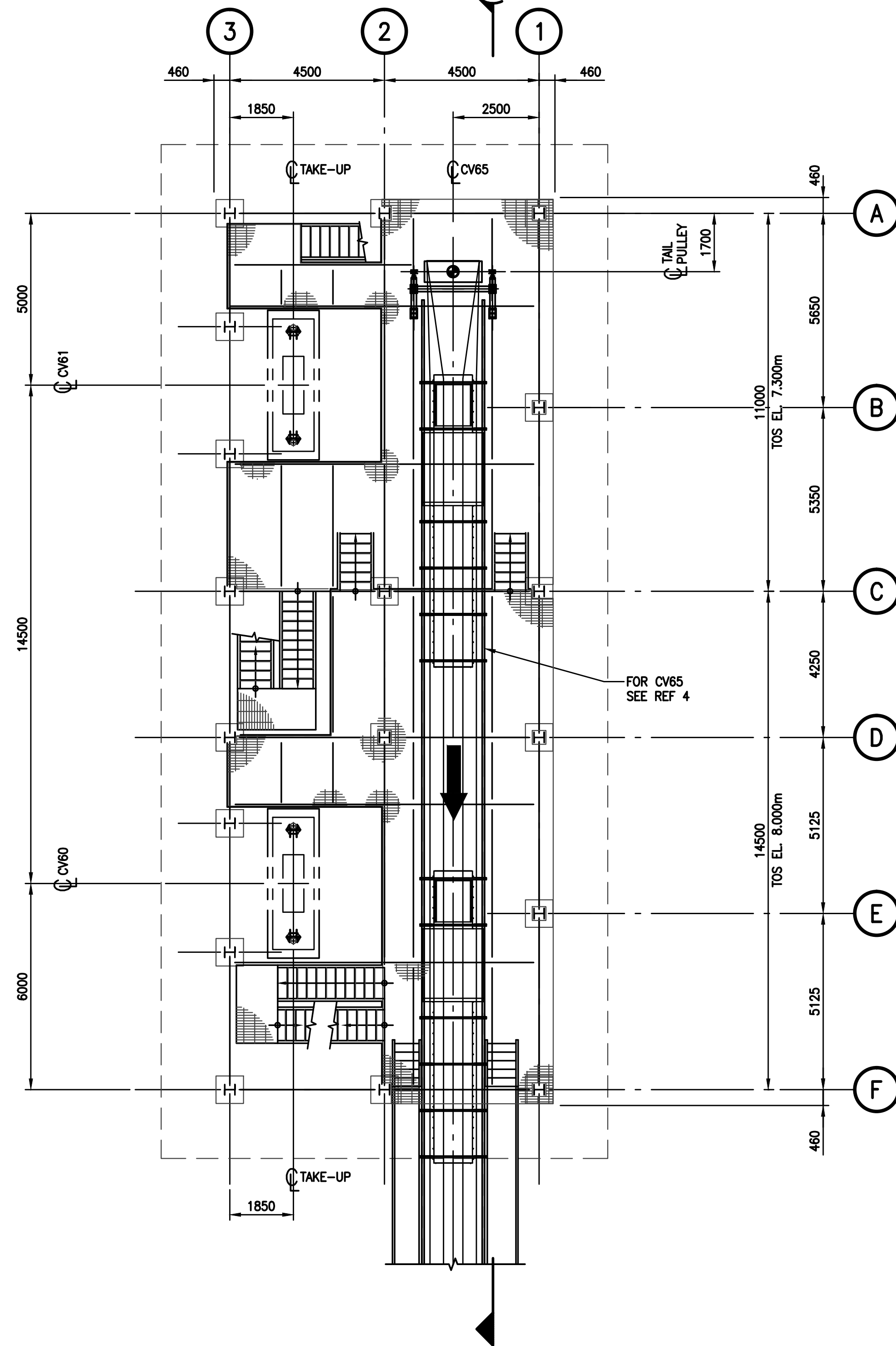
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FIBRECO TERMINAL ENHANCEMENT PROJECT				
STORAGE AREA CONVEYOR 61 GENERAL ARRANGEMENT				
15006	300	ME	035	P4
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



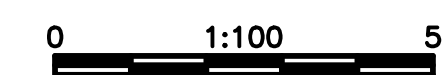
PLAN - T.O. STEEL EL. 12.000m & EL. 11.400m

1:100



PLAN - T.O. STEEL EL. 8.000m & EL. 7.300m AND T.O. CONC EL. 4.750m

1:100



**PRELIMINARY
NOT FOR CONSTRUCTION**

REF.	DWG. NUMBER	DESCRIPTION
5	15006-300-ST-061	STORAGE AREA - TRANSFER TOWER 5 - PLANS
4	15006-400-ME-010	OUTBOUND AREA - CONVEYOR 65 - GEN ARRGT
3	15006-300-ME-035	STORAGE AREA - CONVEYOR 61 - GEN ARRGT
2	15006-300-ME-030	STORAGE AREA - CONVEYOR 60 - GEN ARRGT
1	15006-300-ME-041	STORAGE AREA - TRANSFER TOWER 5 - SECTIONS



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CLIENT PROJECT No: CWA ACAD FILE: 15006-300-ME-040_P3.DWG

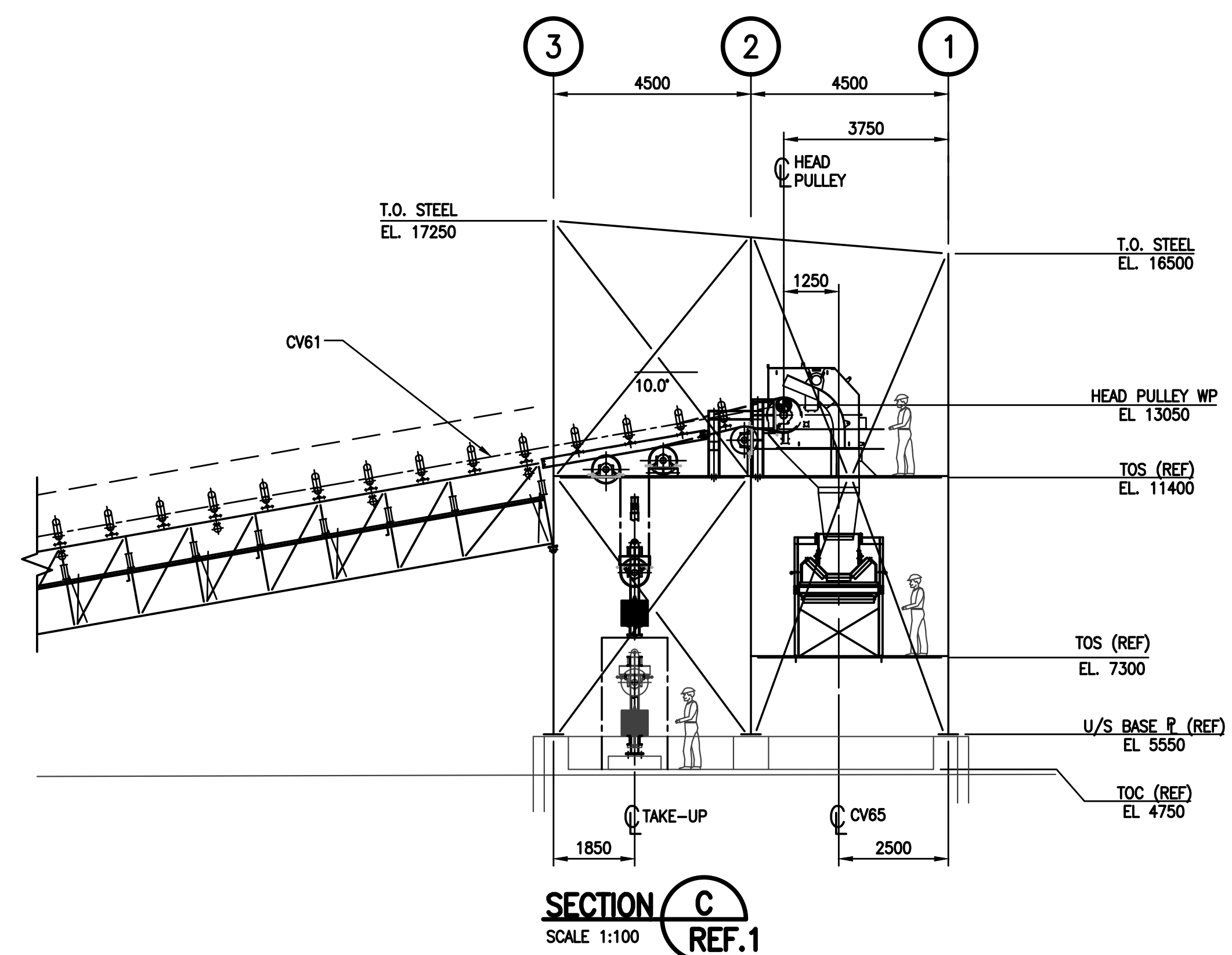
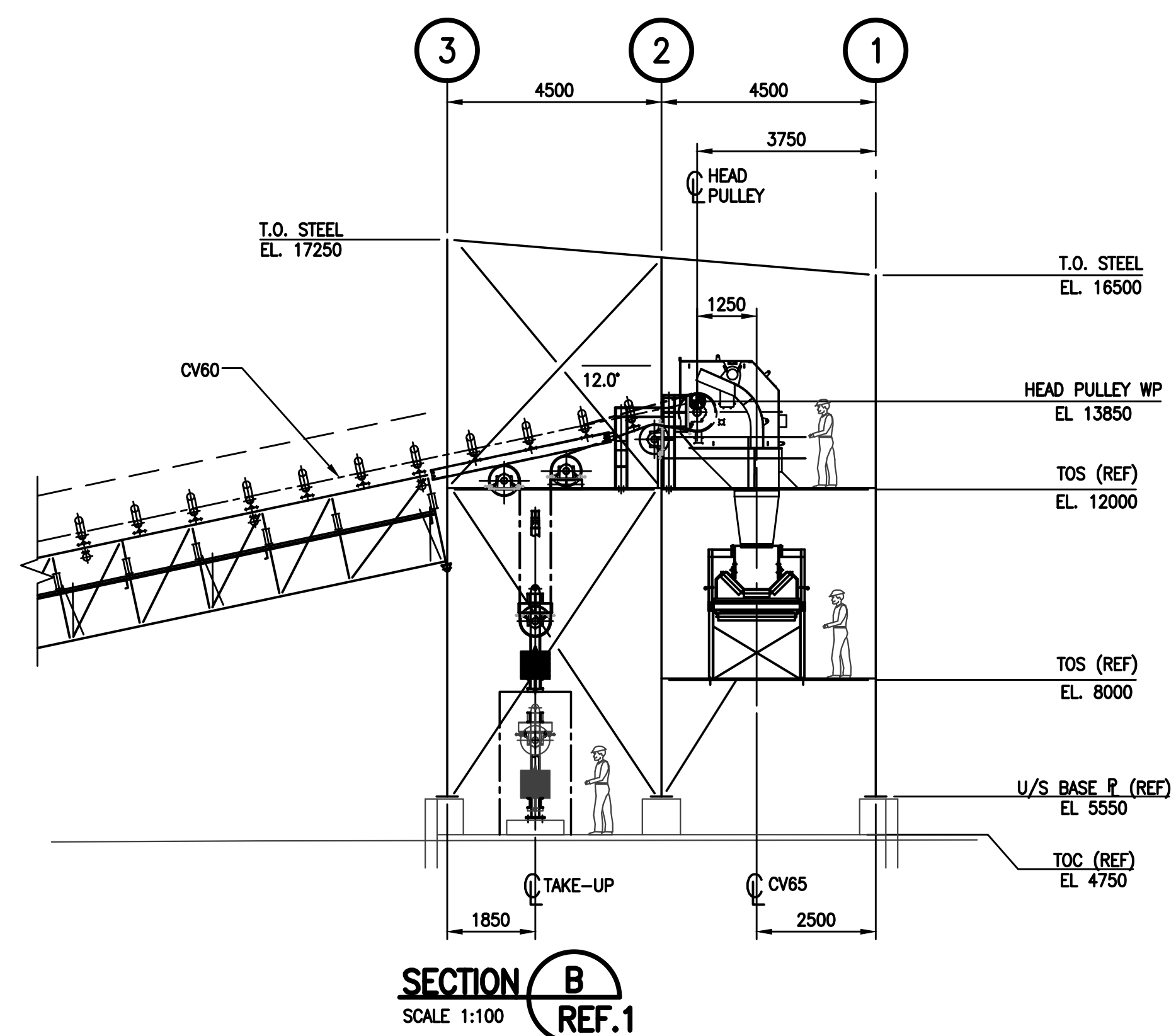
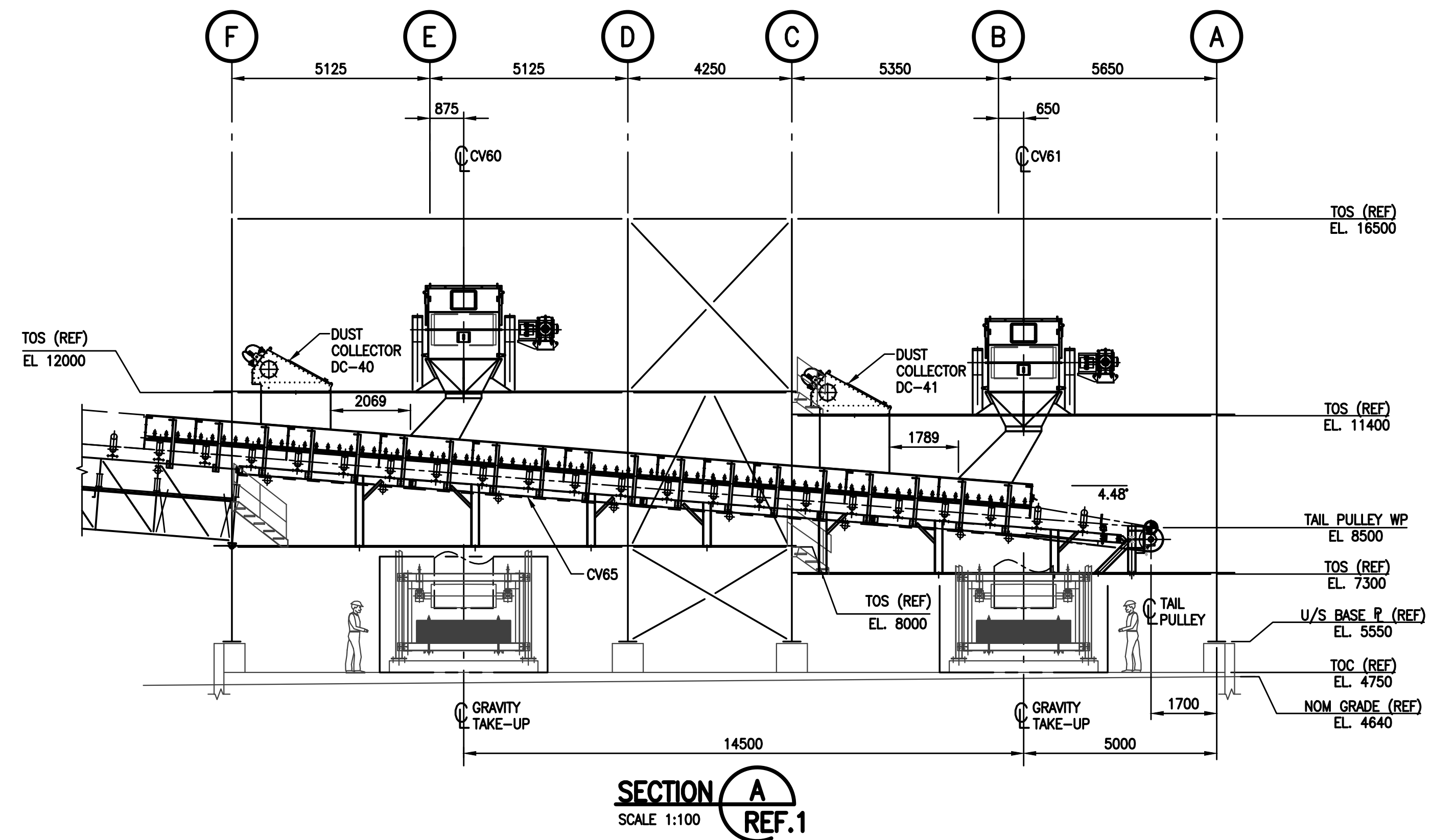
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-



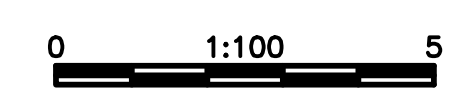
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DRAWN BY: JHY SCALE: 1:100

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FIBRECO TERMINAL ENHANCEMENT PROJECT				
STORAGE AREA TRANSFER TOWER 5 GENERAL ARRANGEMENT - PLANS				
15006	300	ME	040	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



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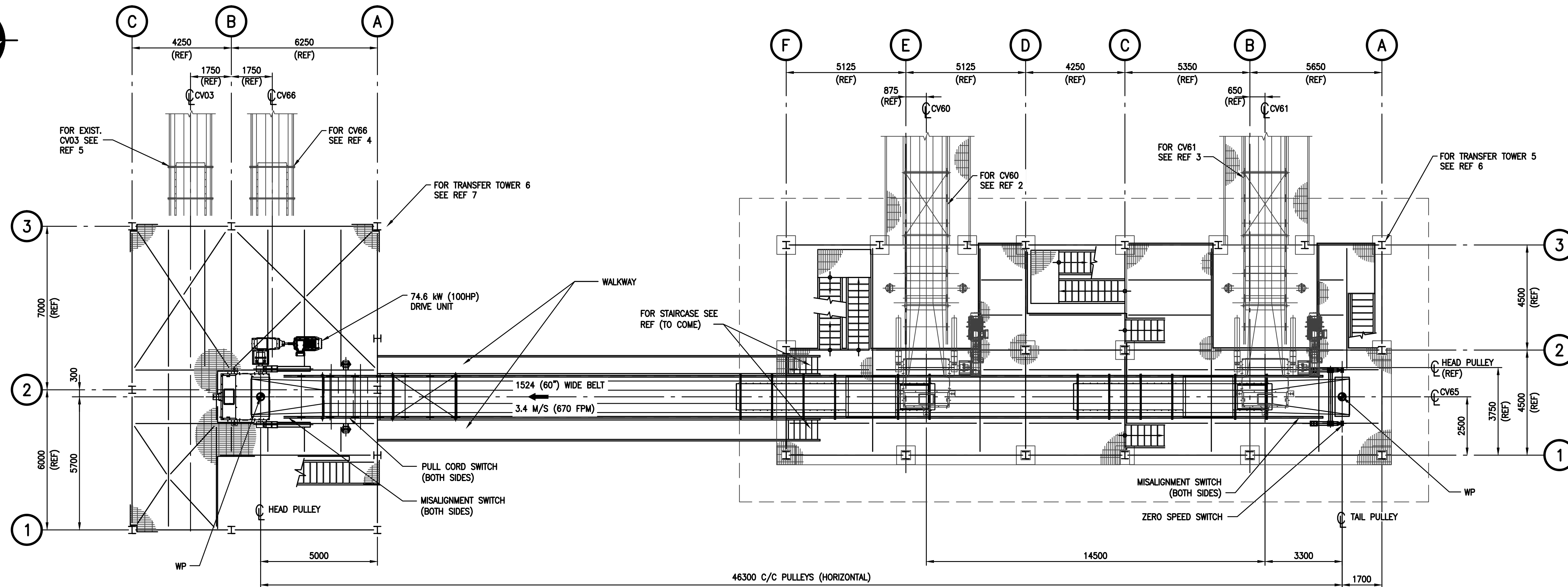
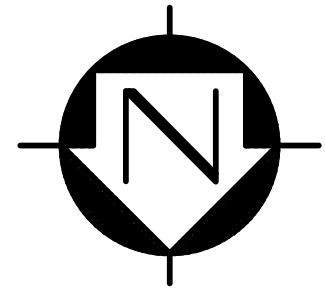
**STORAGE AREA
TRANSFER TOWER 5
SECTIONS**

REF.	DWG. NUMBER	DESCRIPTION
1	15006-300-ME-040	STORAGE AREA-TRANSFER TOWER 5-GEN ARRGT-PLANS

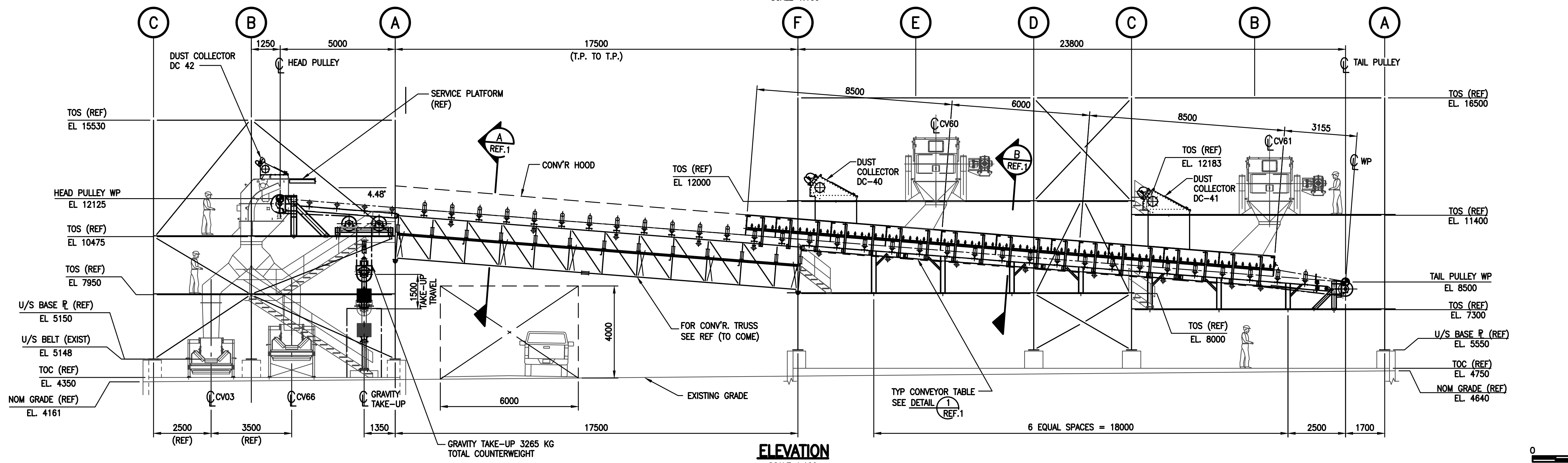
CLIENT PROJECT No:	CWA ACAD FILE: 15006-300-ME-041_P3.DWG
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No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-

DRAWN BY: JHY	SCALE: 1:100	PROJECT No.	AREA	DEPT.	DWG. No.	REV.
		15006	300	ME	041	P3



PLAN
SCALE 1:100



ELEVATION
SCALE 1:100

**PRELIMINARY
NOT FOR CONSTRUCTION**

REF.	DWG. NUMBER	DESCRIPTION
7	15006-400-ST-021	OUTBOUND AREA - TRANSFER TOWER 6 - PLANS
6	15006-300-ST-061	STORAGE AREA - TRANSFER TOWER 5 - PLANS
5	15006-400-ME-030	OUTBOUND AREA - CONVEYOR 03 - GEN ARRGT
4	15006-200-ME-060	INBOUND AREA - CONVEYOR 66 - GEN ARRGT
3	15006-300-ME-035	STORAGE AREA - CONVEYOR 61 - GEN ARRGT
2	15006-300-ME-030	STORAGE AREA - CONVEYOR 60 - GEN ARRGT
1	15006-400-ME-012	OUTBOUND AREA - CONVEYOR 65 - DETAILS



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No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P4	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-
P1	2015-09-11	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-



FIBRECO EXPORT INC.
NORTH VANCOUVER, B.C.
FIBRECO TERMINAL ENHANCEMENT PROJECT

**OUTBOUND AREA
CONVEYOR 65
GENERAL ARRANGEMENT**

15006 400 ME 010 P4

PROJECT No. AREA DEPT. DWG. No. REV.

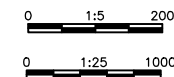
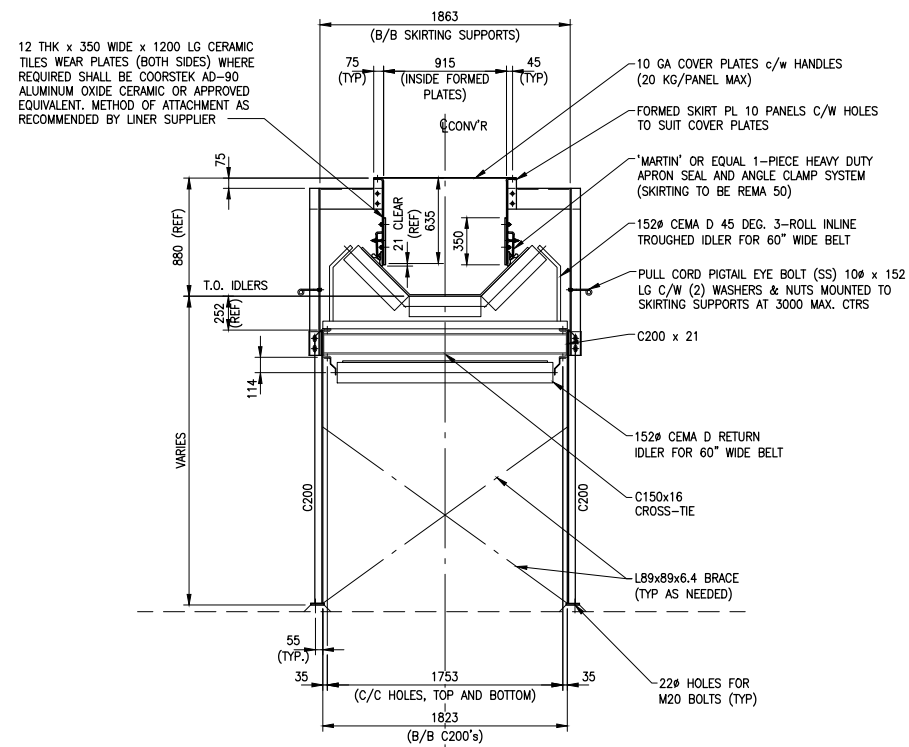
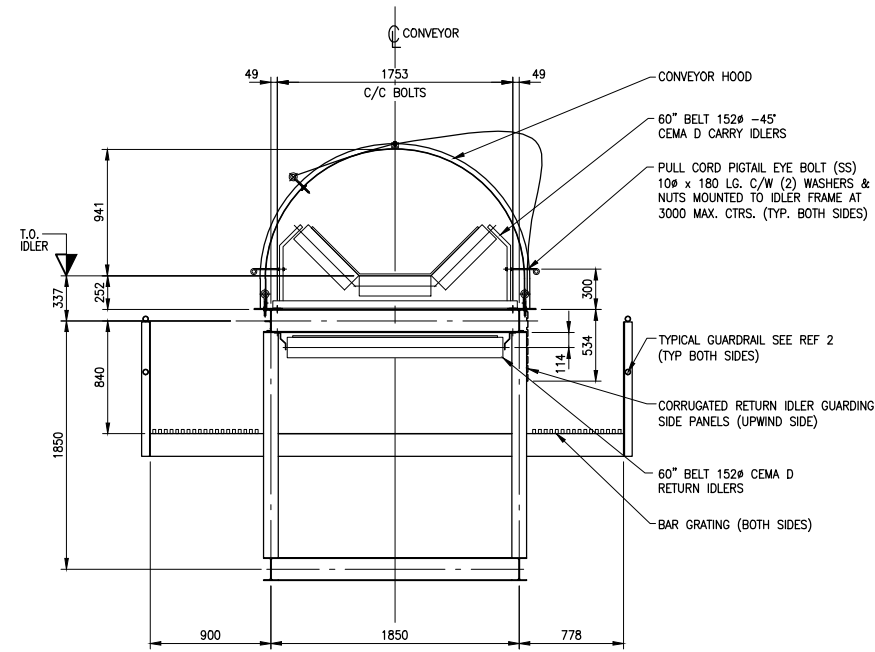
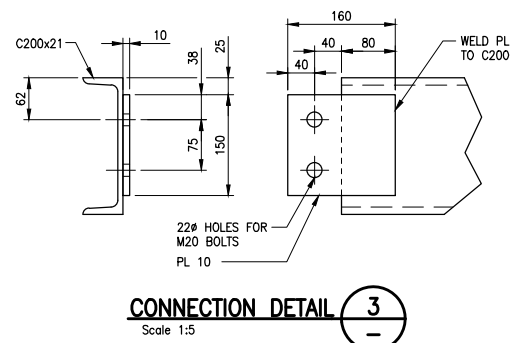
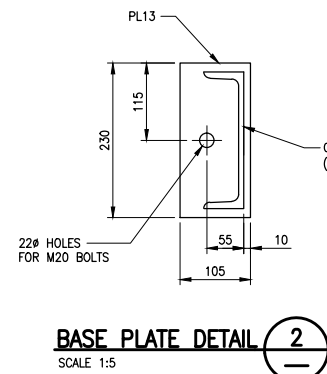
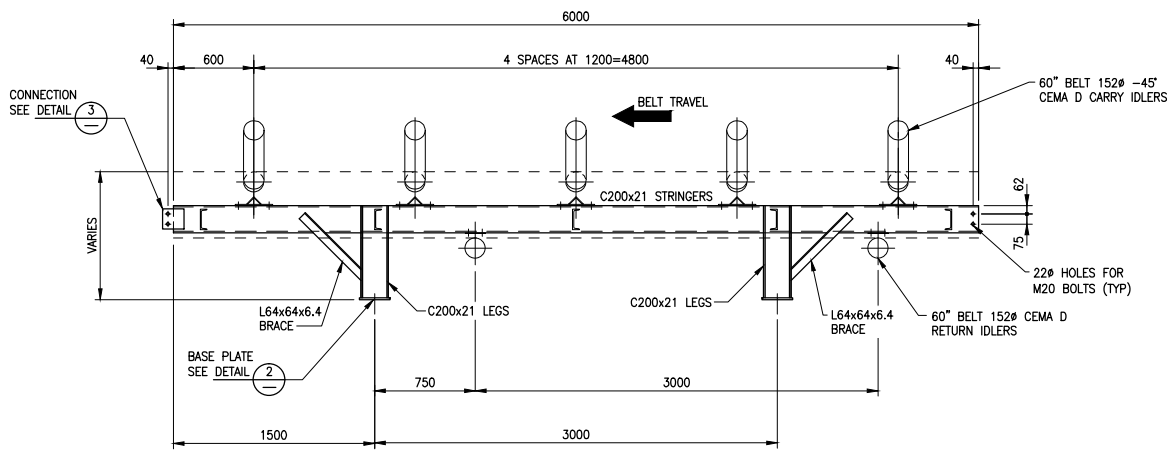
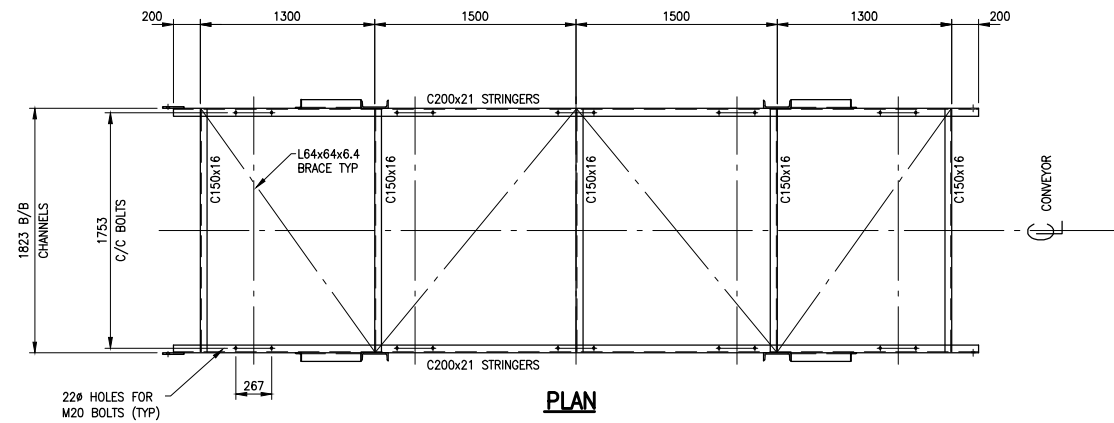
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DRAWN BY: JHY SCALE: 1:100

REFERENCE DRAWINGS / DESIGN STANDARDS

CLIENT PROJECT No: CWA ACAD FILE: 15006-400-ME-010_P4.DWG

ISSUES / REVISIONS * HAND INITIALS ON FILE



**PRELIMINARY
NOT FOR CONSTRUCTION**

2	15006-100-ST-009	GEN STDS - STRUCTURAL STEEL - GUARDRAIL DETAILS
1	15006-400-ME-010	OUTBOUND AREA - CONVEYOR 65 - GEN ARRGT
REF.	DWG. NUMBER	DESCRIPTION



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P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P2	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-
P1	2015-09-11	ISSUED FOR BUDGETARY PRICING	JHY	-	-	-	-
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED



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FIBRECO TERMINAL ENHANCEMENT PROJECT				
OUTBOUND AREA CONVEYOR 65 DETAILS				
15006	400	ME	012	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.

REFERENCE DRAWINGS / DESIGN STANDARDS

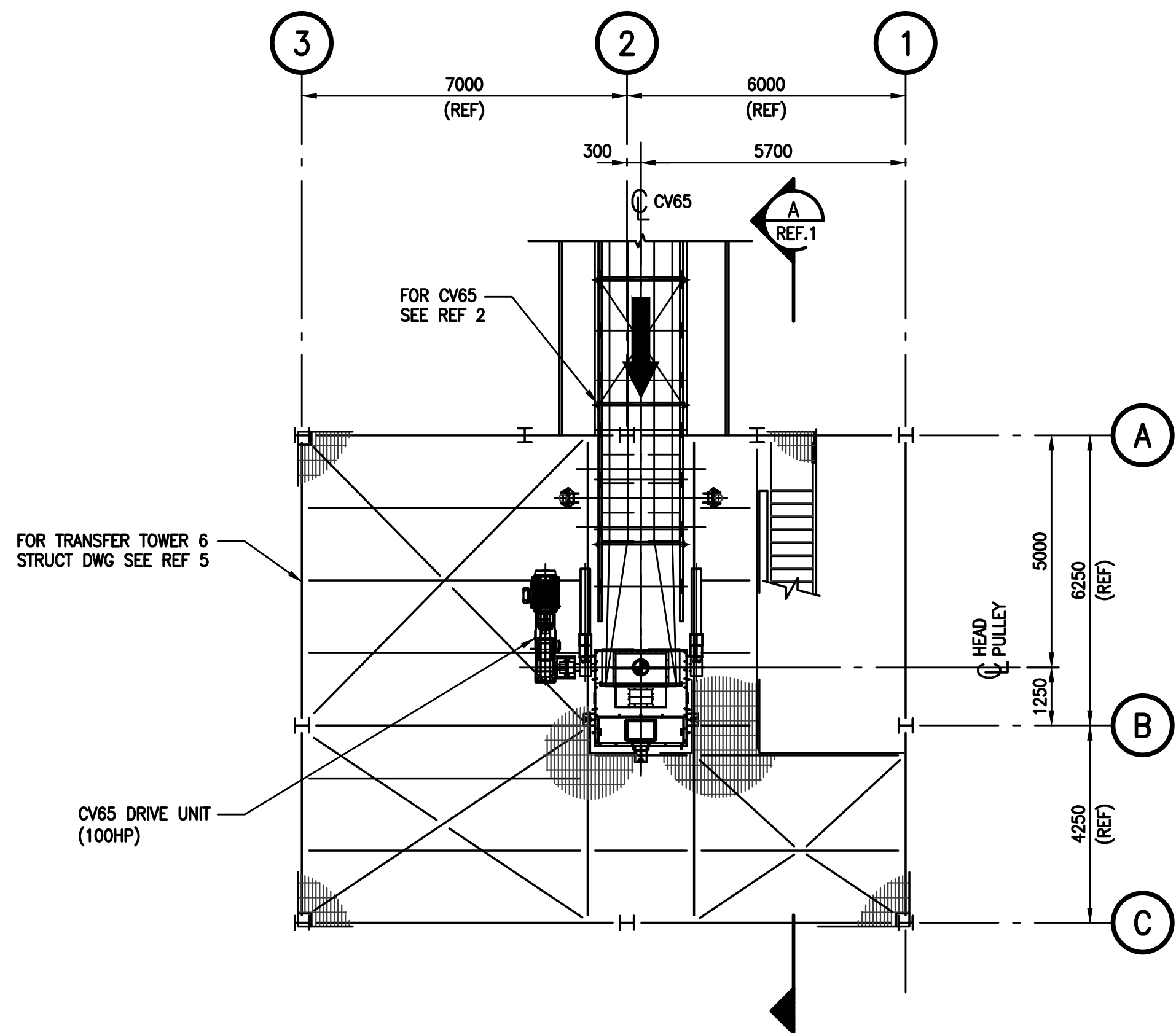
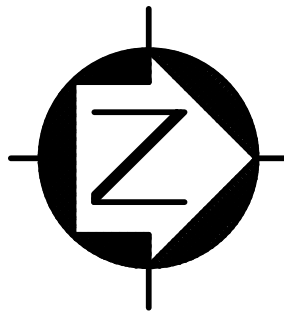
CLIENT PROJECT No:

CWA ACAD FILE: 15006-400-ME-012.DWG

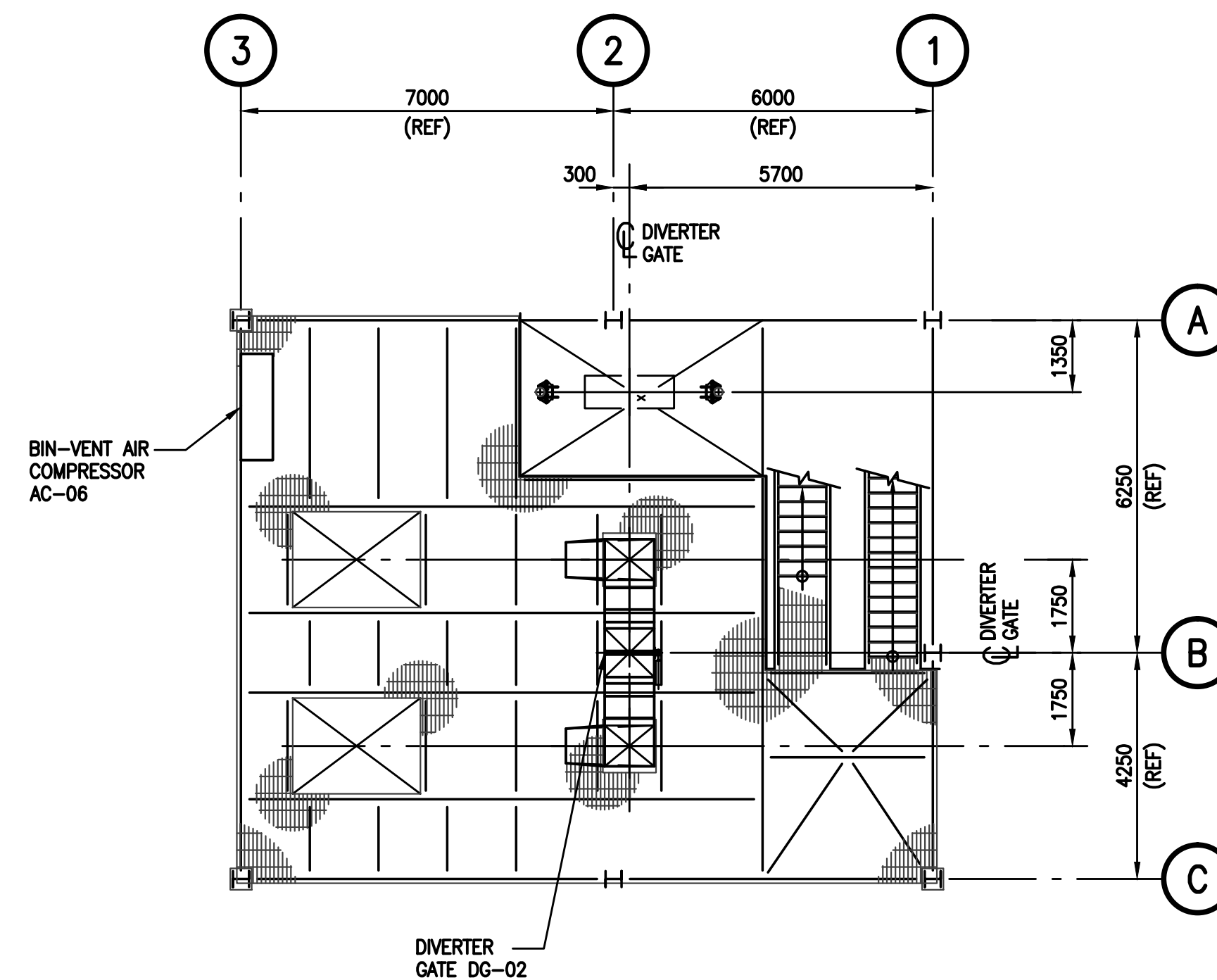
ISSUES / REVISIONS

* HAND INITIALS ON FILE

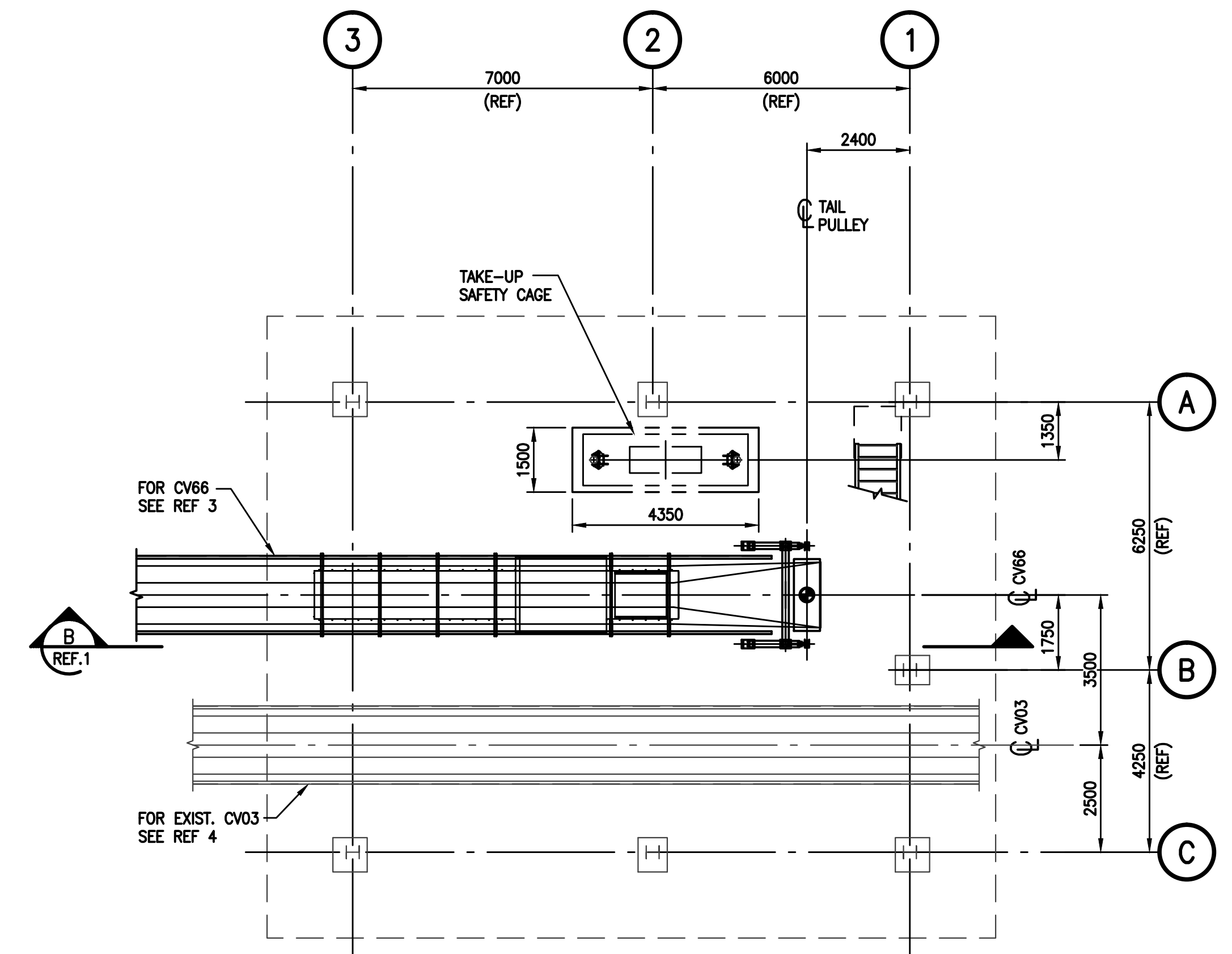
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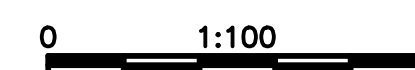
PLAN - T.O. STEEL EL. 10.475m
1:100



PLAN - T.O. STEEL EL. 7.950m
1:100



PLAN - T.O. CONC EL. 4.350m
1:100



**PRELIMINARY
NOT FOR CONSTRUCTION**

REF.	DWG. NUMBER	DESCRIPTION
5	15006-400-ST-021	OUTBOUND AREA - TRANSFER TOWER 6 - PLANS
4	15006-400-ME-030	OUTBOUND AREA - EXISTING CONVEYOR 3 - GEN ARRGT
3	15006-200-ME-060	INBOUND AREA - CONVEYOR 66 - GEN ARRGT
2	15006-400-ME-010	OUTBOUND AREA - CONVEYOR 65 - GEN ARRGT
1	15006-400-ME-016	OUTBOUND AREA - TRANSFER TOWER 6 - SECTIONS



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No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-



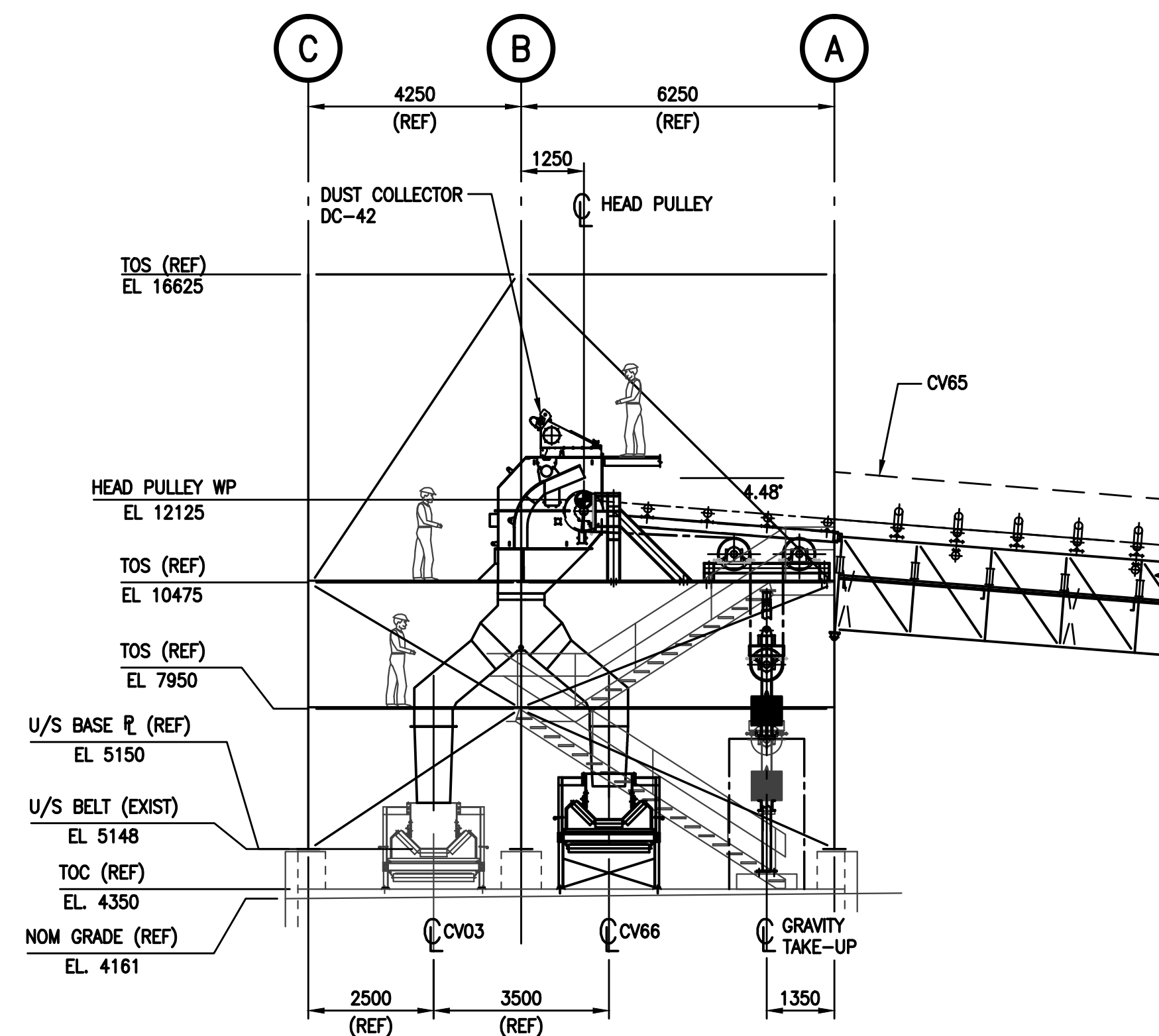
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FIBRECO TERMINAL ENHANCEMENT PROJECT

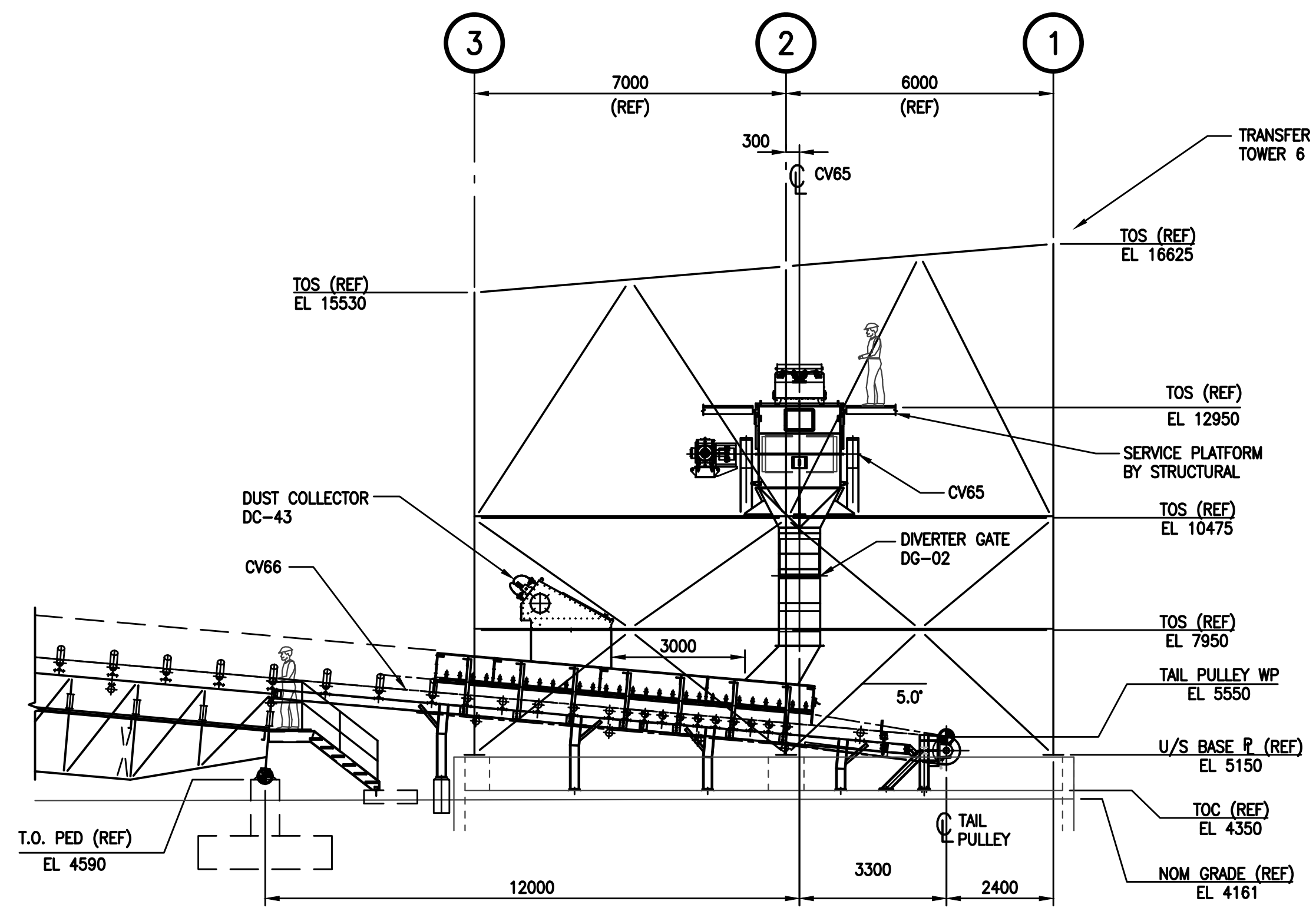
**OUTBOUND AREA
TRANSFER TOWER 6
GENERAL ARRANGEMENT - PLANS**

15006 400 ME 015 P3

PROJECT No. AREA DEPT. DWG. No. REV.



SECTION A
SCALE 1:100 REF.1



SECTION B
SCALE 1:100 REF.1

0 1:100 5

**PRELIMINARY
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REF.	DWG. NUMBER	DESCRIPTION
1	15006-400-ME-015	OUTBOUND AREA-TRANSFER TOWER 6-GEN ARRGT-PLANS

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CLIENT PROJECT No: CWA ACAD FILE: 15006-400-ME-016_P3.DWG

No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-

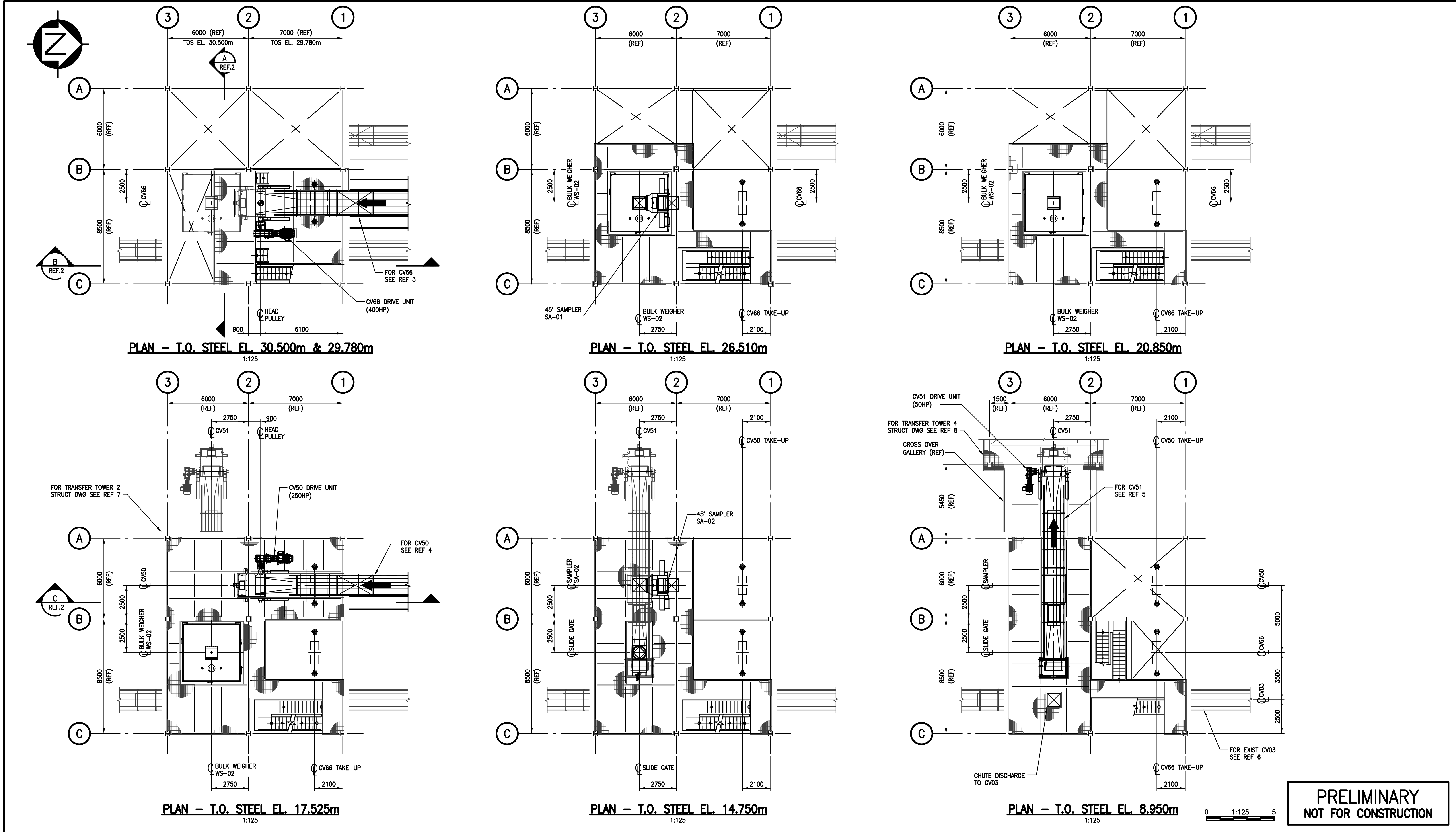
ISSUES / REVISIONS * HAND INITIALS ON FILE



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DRAWN BY: JHY SCALE: 1:100

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OUTBOUND AREA TRANSFER TOWER 6 SECTIONS				
15006	400	ME	016	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



**PRELIMINARY
NOT FOR CONSTRUCTION**

8	15006-300-ST-025	STORAGE AREA - TRANSFER TOWER 4 - PLANS
7	15006-400-ST-041	OUTBOUND AREA - TRANSFER TOWER 2 - PLANS
6	15006-400-ME-030	OUTBOUND AREA - EXISTING CONVEYOR 3 - GEN ARRGT
5	15006-200-ME-050	INBOUND AREA - CONVEYOR 51 - GEN ARRGT
4	15006-200-ME-045	INBOUND AREA - CONVEYOR 50 - GEN ARRGT
3	15006-200-ME-060	INBOUND AREA - CONVEYOR 66 - GEN ARRGT
2	15006-400-ME-027	OUTBOUND AREA - TRANSFER TOWER 2 - SECTIONS
1	15006-400-ME-026	OUTBOUND AREA - TRANSFER TOWER 2 - G.A. PLANS SH 1
REF.	DWG. NUMBER	DESCRIPTION



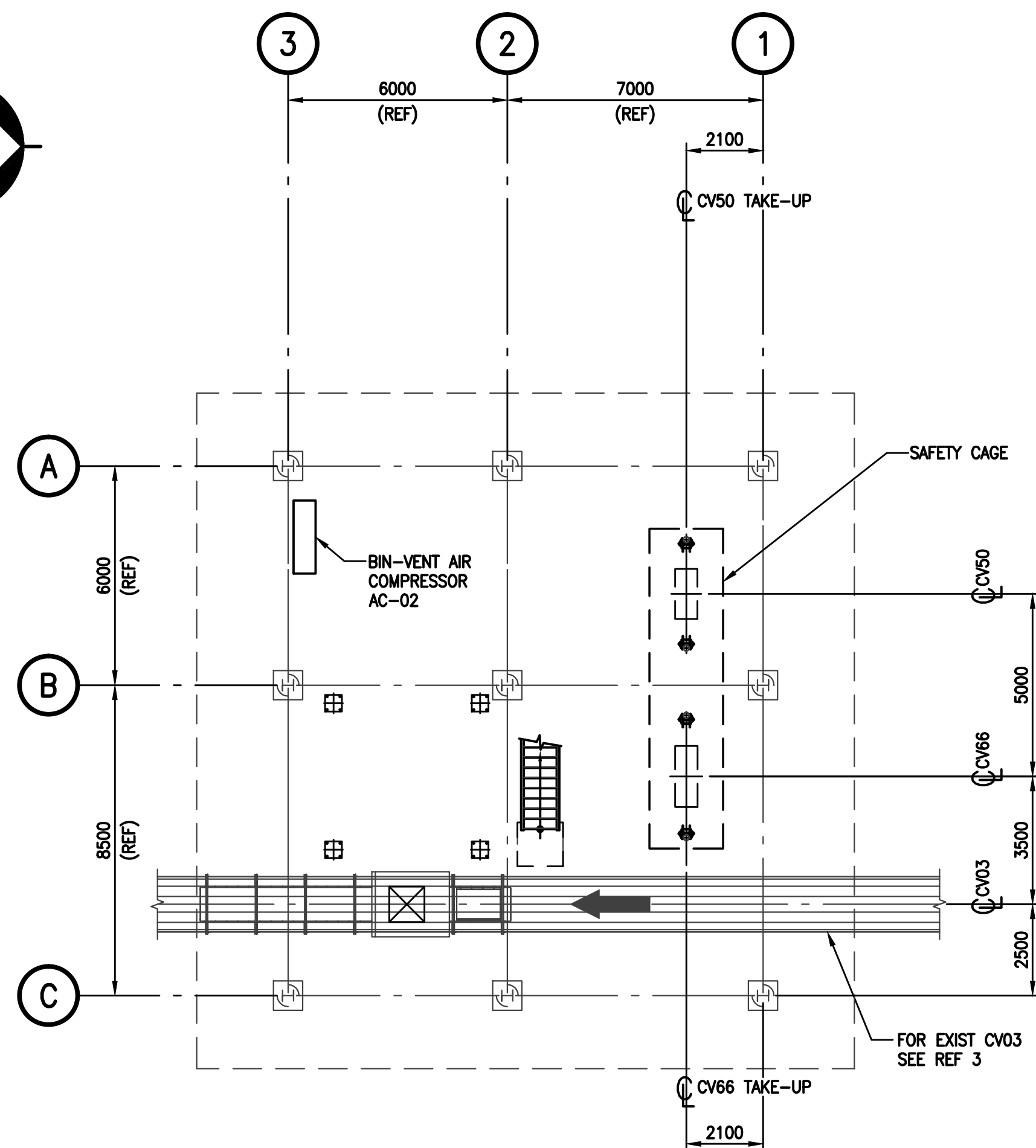
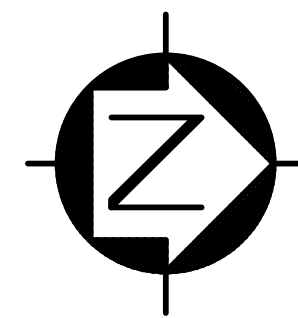
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No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	-	BTR	HSN	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-



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OUTBOUND AREA TRANSFER TOWER 2 GEN ARRGT - PLANS - SH 1				
15006	400	ME	025	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



PLAN - T.O. CONC EL. 4.100m
1:125

0 1:125 5

**PRELIMINARY
NOT FOR CONSTRUCTION**

REF.	DWG. NUMBER	DESCRIPTION
3	15006-400-ME-030	OUTBOUND AREA - EXISTING CONVEYOR 3 - GEN ARRGT
2	15006-400-ME-027	OUTBOUND AREA - TRANSFER TOWER 2 - SECTIONS
1	15006-400-ME-025	OUTBOUND AREA - TRANSFER TOWER 2 - G.A. PLANS SH 1
REFERENCE DRAWINGS / DESIGN STANDARDS		



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CLIENT PROJECT No: CWA ACAD FILE: 15006-400-ME-026_P3.DWG

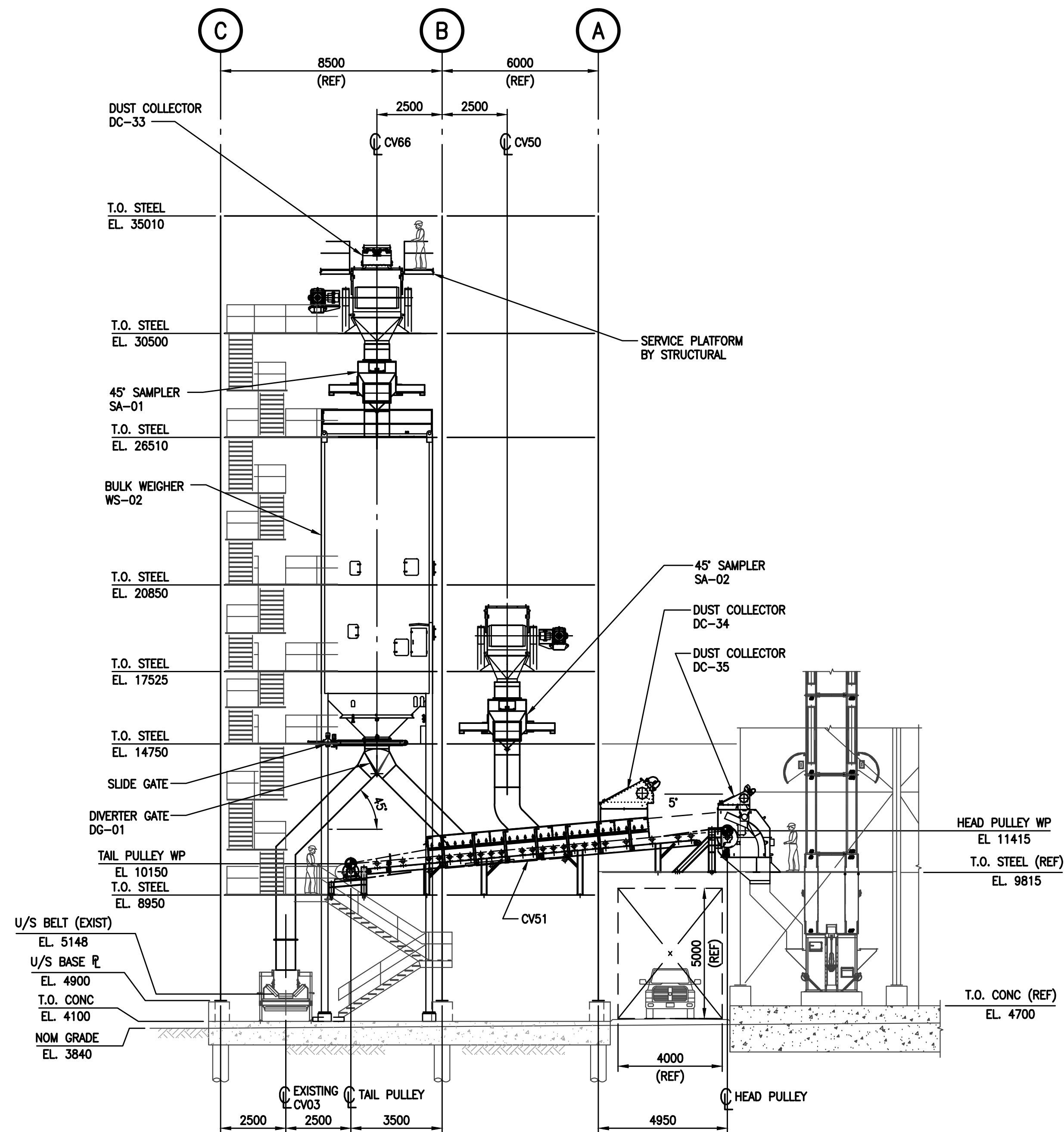
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-
ISSUES / REVISIONS * HAND INITIALS ON FILE							



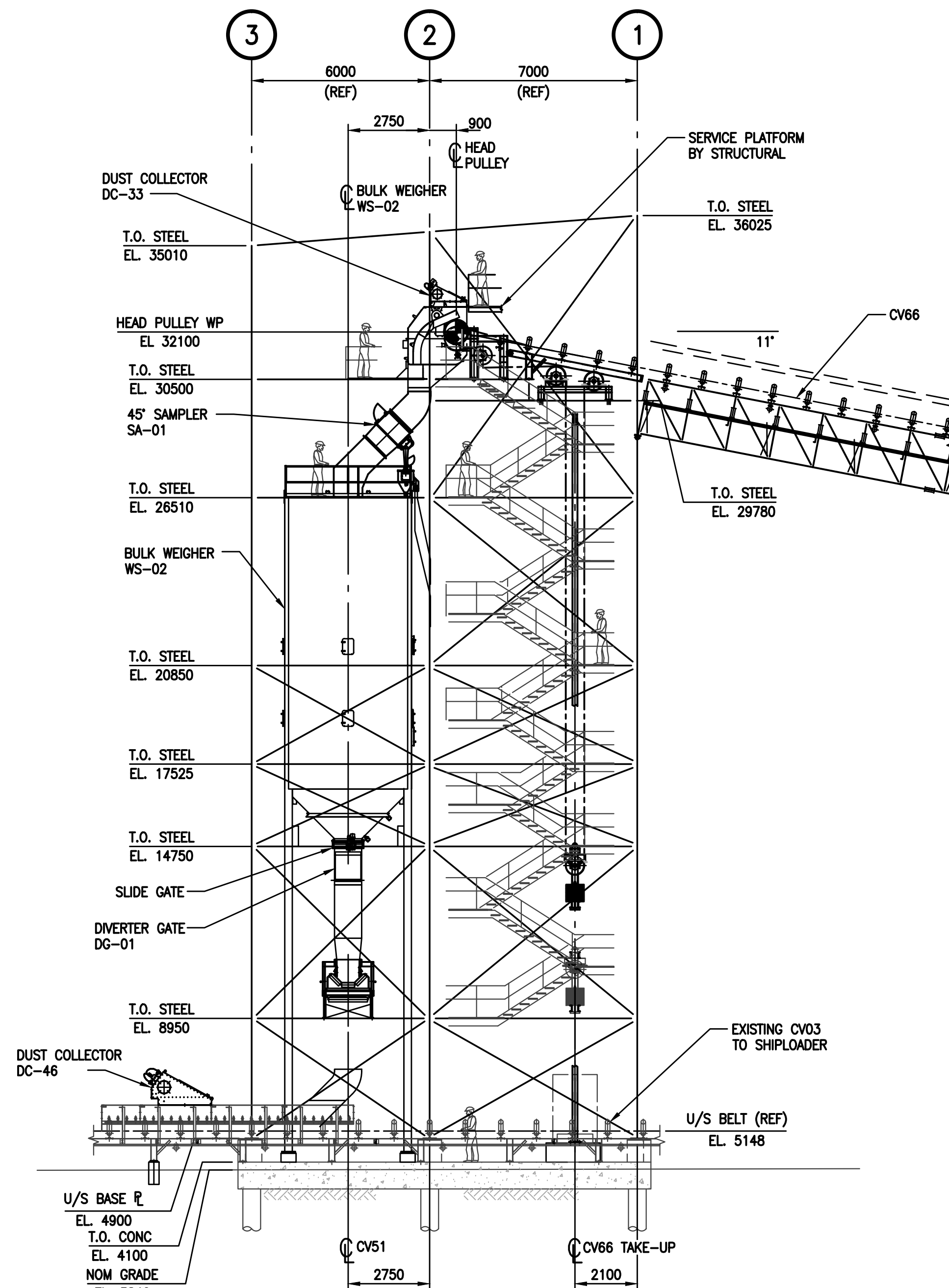
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DRAWN BY: JHY SCALE: 1:125

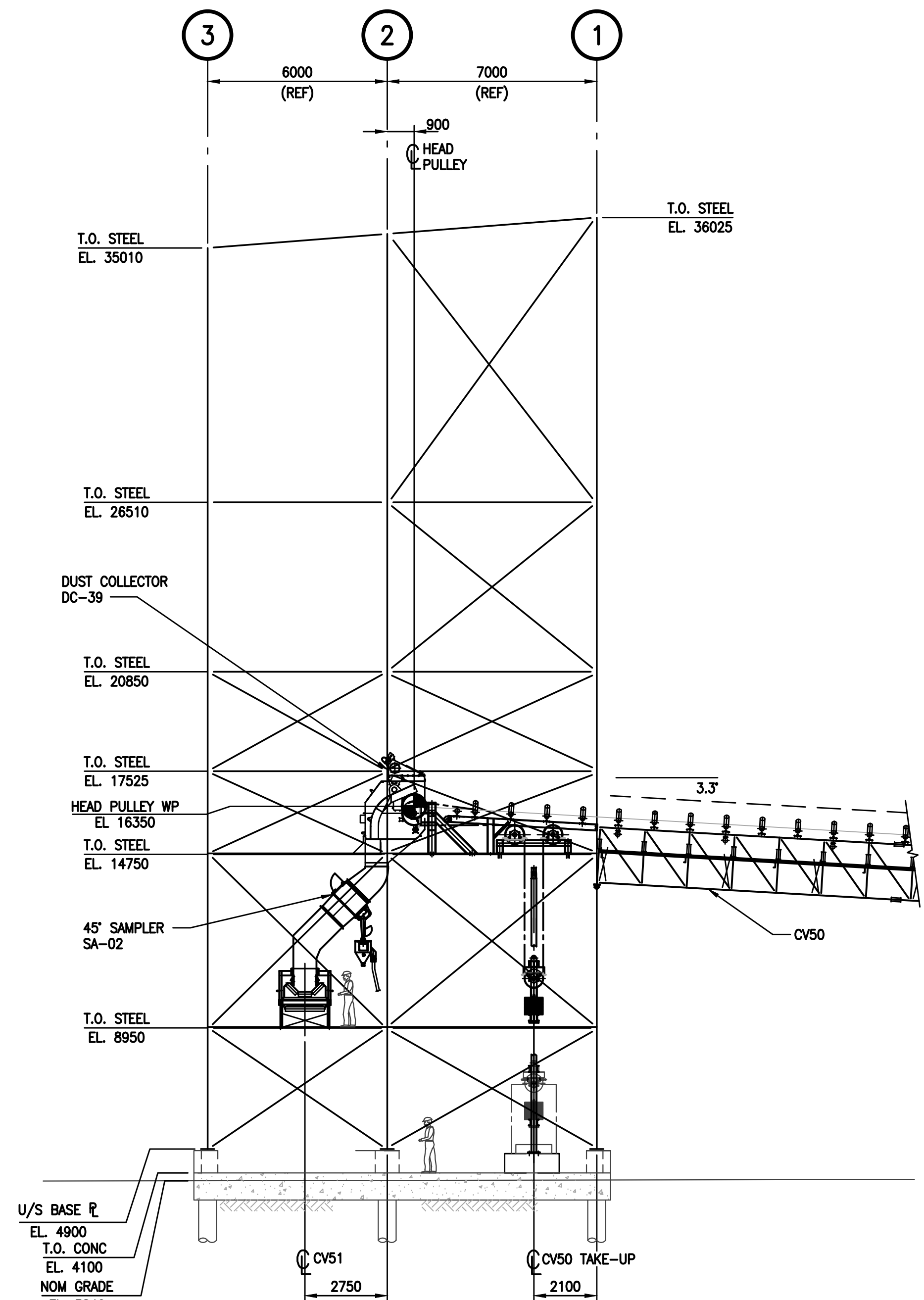
FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
OUTBOUND AREA TRANSFER TOWER 2 GEN ARRGT - PLANS - SH 2				
15006	400	ME	026	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



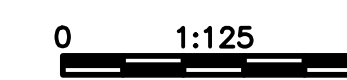
SECTION A REF.1
SCALE 1:125



SECTION B REF.1
SCALE 1:125



SECTION C REF.1
SCALE 1:125



PRELIMINARY
NOT FOR CONSTRUCTION

REF.	DWG. NUMBER	DESCRIPTION
2	15006-400-ME-026	OUTBOUND AREA-TRANSFER TOWER 2-G.A.- PLANS SH 2
1	15006-400-ME-025	OUTBOUND AREA-TRANSFER TOWER 2-G.A.- PLANS SH 1



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CLIENT PROJECT No: CWA ACAD FILE: 15006-400-ME-027_P3.DWG

No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2016-08-24	ISSUED FOR CLIENT REVIEW - CLADDING REMOVED	JHY	HSN	BTR	HSN	-
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-



This drawing has been prepared by CWA Engineers Inc. as an instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.

FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
OUTBOUND AREA TRANSFER TOWER 2 SECTIONS				
15006	400	ME	027	P3
PROJECT No.	AREA	DEPT.	DWG. No.	REV.

DRAWN BY: JHY SCALE: 1:125

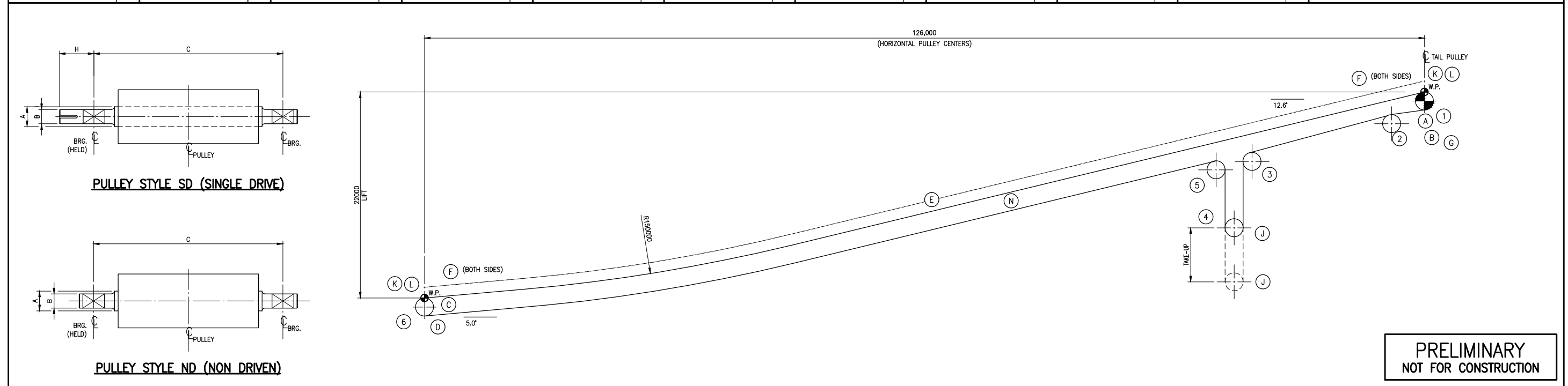
ISSUES / REVISIONS * HAND INITIALS ON FILE

GENERAL		BELT		TAKE-UP		IDLERS					REDUCERS		MOTORS		ACCESSORIES				
CONVEYOR NUMBER	C15	WIDTH	1219 mm (48")	TYPE	GRAVITY	MANUFACTURER					MANUFACTURER	SHAFT MOUNTED RIGHT ANGLE	MANUFACTURER	NAMEPLATE POWER	1x296 kW (400 HP)	ITEM	LOCATION	QTY.	MANUFACTURER
DRIVE NUMBER	-	MANUFACTURER	-	TRAVEL DISTANCE	3.7 m	TRANSITION IDLER					MODEL No.	-	TYPE	TEFC	SECONDARY SCRAPER	A	1	-	-
CONVEYED FROM	RAILCAR DUMPER HOPPER	TYPE	FABRIC	COUNTERWEIGHT	-	IMPACT IDLER (RETRACTABLE)					RATIO	19.62	RPM	1800	RETURN BELT PLOW	C	1	-	-
CONVEYING TO	C17, C3, C50, C66	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	TROUGH CARRYING					MECH SERVICE FACTOR	1.5	VOLTAGE	460/3/60	ZERO SPEED SWITCH	D	1	-	-
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	CARRYING TRAINING IDLER					THERMAL SERVICE FACTOR	1.0	FRAME SIZE	-	PULL CORD SWITCH	E	3	-	-
MATERIAL	GRAINS OR WOOD PELLETS	ELASTIC MODULUS	-	TOTAL WEIGHT REQ'D	3,760 kg	FLAT RETURN IDLER					OUTPUT RPM	89.6	SERVICE FACTOR	1.15	MISALIGNMENT SWITCH	F	4	-	-
DESIGN CAPACITY	1500 MTPH	TOP COVER THICKNESS	8 mm	BELT LENGTH		RETURN TRAINING IDLER					INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	HIGH LEVEL SWITCH (PLUGGED CHUTE)	G	1	-	-
CEMA LOADING (MAX)	90.0%	BOTTOM COVER THICKNESS	4 mm			CARRYING IDLER (RETRACTABLE)					BRAKE Ø HSS	N/A	CONV START TIME	30 S	TAKE-UP OVER TRAVEL LIMIT SWITCH	J	2	-	-
MATERIAL DEPTH ON BELT	235 mm	BELT THICKNESS (APPROX.)	-	SPLICE LENGTH	-	BELT SCALE QUALITY IDLERS (CARRY)					COOLING TYPE	FAN	HAZARDOUS RATING	CLASS II DIV 1 GROUP F	START-UP HORN	K	2	-	-
BULK DENSITY	720 - 769 kg/m ³	WEIGHT/UNIT LENGTH (±)	26.6 kg/m	No. OF SPLICES REQ'D	1										START-UP STROBE	L	2	-	-
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED	TOTAL LENGTH REQ'D	270 m										BELT SCALE (0.25% ACCURACY)	N	1	-	-
SURCHARGE ANGLE	5-15 DEG	PERMANENT ELONGATION	0.8 %																
BELT SPEED (T RUN)	3.8 m/s						HIGH SPEED COUPLINGS					LOW SPEED COUPLINGS							
POWER REQ'D (T RUN)	195 kW (263 HP)						MANUFACTURER					TBD							
DRIVE ARRANGEMENT	SINGLE DRIVE ON HEAD PULLEY						TYPE/MODEL No.					FLEXIBLE JAW							
DESIGN TEMPERATURE	-10°C TO +35°C						SERVICE FACTOR					1.5							

PULLEYS										SHAFTS				BEARINGS				DESIGN LOADS						
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (Ø)	B (Ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE
1	HEAD/DRIVE	SD	1	762 (30")	1300	DRUM	NO	YES/20/RUBBER	SBR 60±5	SAE4140	220	180	1910	500	-	-	TAC	2	-	133	23	62	18	210
2	LT SNUB	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1910	-	-	-	TAC	2	-	27	27	18	18	25
3	LT BEND	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2	-	27	27	18	18	90
4	TAKE-UP	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2	-	27	27	18	18	180
5	LT BEND	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2	-	27	27	18	18	90
6	LT TAIL	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2	-	27	27	18	18	180

GENERAL NOTES

- 1) READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- 2) DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
T MAX IN = 2.5x Te1 + 1.25x Tu
T MAX OUT = 1.25x Tu
HIGH TENSION PULLEYS:
T MAX IN = T MAX OUT = 2.5x Te1 + 1.25x Tu
LOW TENSION PULLEYS:
T MAX IN = T MAX OUT = 1.5x (Tu, T RUN)
- 3) PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 60,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS



**PRELIMINARY
NOT FOR CONSTRUCTION**

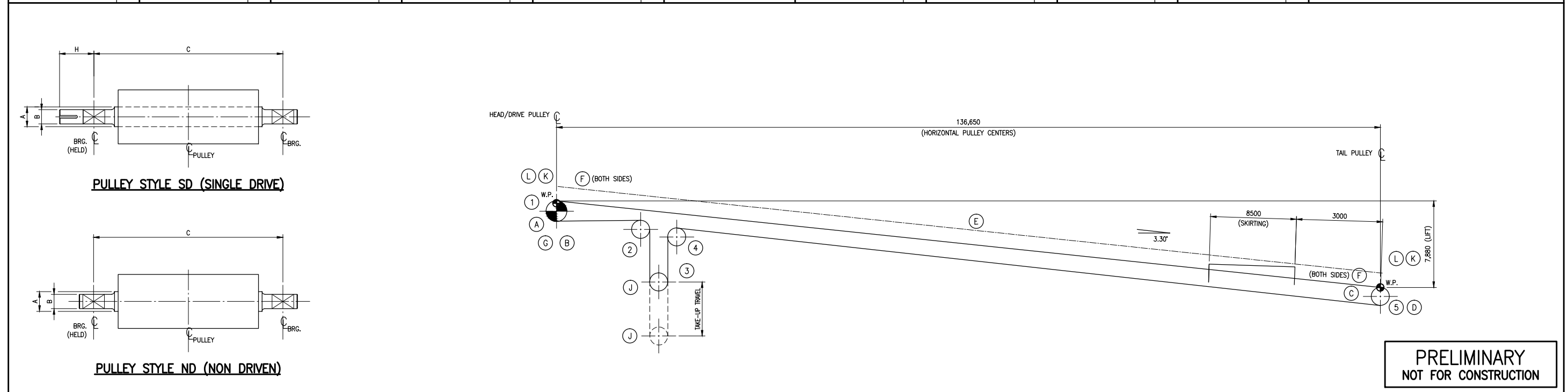
		FIBRECO FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-8543 FAX: (604) 984-2583				CWA www.cwaengineers.com		FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. TERMINAL ENHANCEMENT PROJECT INBOUND AREA CONVEYOR 15 DATA SHEET							
1	15006-200-ME-035			STORAGE AREA C15 GENERAL ARRANGEMENT	P2	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	-		
	DWG. NUMBER	DESCRIPTION	P1	2015-10-30	ISSUED FOR CLIENT REVIEW			BTR							
			No.	YYYY-MM-DD	DESCRIPTION										
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:	CWA ACAD FILE: 15006-200-DS-001.DWG		ISSUES / REVISIONS		* HAND INITIALS ON FILE		DRAWN BY: LGJ	SCALE: NTS	PROJECT No.	AREA	DEPT.	DWG. No.	REV.
									15006	200	DS	001	P2		

GENERAL		BELT		TAKE-UP		IDLERS					REDUCERS		MOTORS		ACCESSORIES				
CONVEYOR NUMBER	CV50	WIDTH	1219 mm (48")	TYPE	GRAVITY	MANUFACTURER					MANUFACTURER	SHAFT MOUNTED RIGHT ANGLE	MANUFACTURER	POWER (INSTALLED)	1x111 kW (150 HP)	ITEM	LOCATION	QTY.	MANUFACTURER
DRIVE NUMBER	-	MANUFACTURER		TRAVEL DISTANCE	2.500 m	ROLL DIA.	ANGLE	CEMA RATING	SPACING	QTY.	TYPE		TYPE		TEFC	PRIMARY SCRAPER	A	1	
CONVEYED FROM	C15	TYPE	FABRIC	COUNTERWEIGHT	-	152 mm	20-45	D6	-	3	MODEL No.		TYPE			SECONDARY SCRAPER	B	1	
CONVEYING TO	C51	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	152 mm	45	D6	0.3 M	11	RATIO	18.42	RPM	1800	RETURN BELT PLOW	C	1		
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	152 mm	45	D6	1.2 m	102	MECH SERVICE FACTOR	1.5	VOLTAGE	460/3/60	ZERO SPEED SWITCH	D	1		
MATERIAL	GRAINS	ELASTIC MODULUS		TOTAL WEIGHT REQ'D	3060 kg	152 mm	45	D6	1.2 m	3	THERMAL SERVICE FACTOR	1.0	FRAME SIZE		PULL CORD SWITCH	E	3		
DESIGN CAPACITY	1500 MTPH	TOP COVER THICKNESS	6.35 mm	BELT LENGTH		152 mm	0	D6	3.0 m	45	OUTPUT RPM	96.6	SERVICE FACTOR	1.15	MISALIGNMENT SWITCH	F	4		
CEMA LOADING (MAX)	90.0%	BOTTOM COVER THICKNESS	3.175 mm	SPLICE LENGTH		152 mm	0	D6	3.0 m	3	INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	HIGH LEVEL SWITCH (PLUGGED CHUTE)	G	1		
MATERIAL DEPTH ON BELT	241 mm	BELT THICKNESS (APPROX.)		No. OF SPLICES REQ'D	1	152 mm	45	D6	0.5 m	9	BRAKE Ø HSS	N/A	CONV START TIME	15 S	TAKE-UP OVER TRAVEL LIMIT SWITCH	J	2		
BULK DENSITY	720 - 769 kg/m ³	WEIGHT/UNIT LENGTH (±)	23.2 kg/m	TOTAL LENGTH REQ'D	285 m						COOLING TYPE	FAN			START-UP HORN	K	2		
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED												START-UP STROBE	L	2		
SURCHARGE ANGLE	5-15 DEG	PERMANENT ELONGATION	0.8 %																
BELT SPEED (T RUN)	3.8 m/s (747 FPM)																		
POWER REQ'D (T RUN)	84 kW (115 HP)																		
DRIVE ARRANGEMENT	SINGLE DRIVE ON HEAD PULLEY																		
DESIGN TEMPERATURE	-10°C TO +35°C																		

PULLEYS					SHAFTS					BEARINGS					DESIGN LOADS									
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (Ø)	B (Ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE
1	HEAD/DRIVE	SD	1	762 (30")	1300	DRUM	NO	YES/20/RUBBER	SBR 60±5	SAE4140	220	180	1910	500	-	-	TAC	2		66.3	18.8	35	16	180
2	LT BEND	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2		22.5	22.5	16	16	85
3	TAKE-UP	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2		22.5	22.5	15	15	180
4	LT BEND	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2		22.5	22.5	16	16	95
5	LT TAIL	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2		22.5	22.5	15	15	180

GENERAL NOTES

- 1) READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- 2) DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
T MAX IN = 2.5x Te1 + 1.25x Tu
T MAX OUT = 1.25x Tu
HIGH TENSION PULLEYS:
T MAX IN = T MAX OUT = 2.5x Te1 + 1.25x Tu
LOW TENSION PULLEYS:
T MAX IN = T MAX OUT = 1.5x (Tu, T RUN)
- 3) PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 60,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS



**PRELIMINARY
NOT FOR CONSTRUCTION**

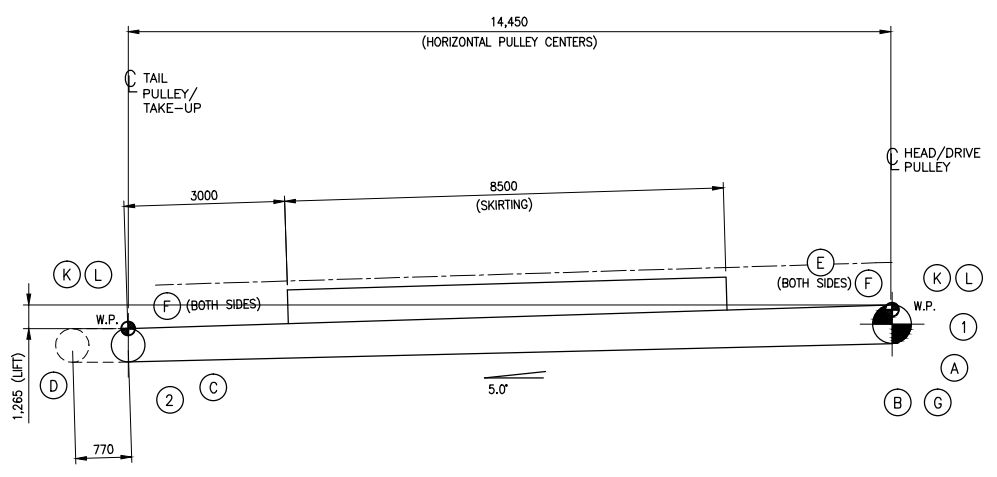
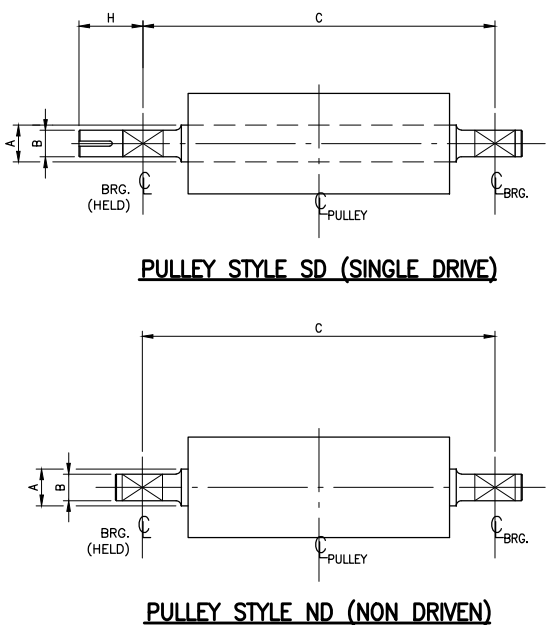
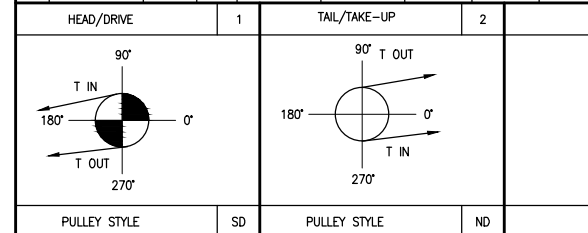
		FIBRECO FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-8543 FAX: (604) 984-2583				CWA www.cwaengineers.com This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.		FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. TERMINAL ENHANCEMENT PROJECT INBOUND AREA CONVEYOR 50 DATA SHEET														
1	15006-200-ME-045			CONVEYOR 50 - GENERAL ARRANGEMENT	P3			2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	-	-	-	-	-	-	-	-
			P2	2015-10-30	ISSUED FOR CLIENT REVIEW	BTR	-	BTR	-	-	-	-	-	-	-	-	-	-	-			
			P1	2015-09-14	ISSUED FOR BUDGETARY PRICING	BTR	-	BTR	-	-	-	-	-	-	-	-	-	-	-			
REF.	DWG. NUMBER	DESCRIPTION	No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	DRAWN BY:	SCALE:	PROJECT No.	AREA	DEPT.	DWG. No.	REV.					
											BTR	NTS	15006	200	DS	002	P3					
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:	CWA ACAD FILE: 15006-200-DS-002_P2.DWG		ISSUES / REVISIONS		* HAND INITIALS ON FILE		DRAWN BY: BTR		SCALE: NTS		PROJECT No.		AREA		DEPT.		DWG. No.		REV.	

GENERAL		BELT		TAKE-UP		IDLERS					REDUCERS		MOTORS		ACCESSORIES		
CONVEYOR NUMBER	C51	WIDTH	1219 mm (48")	TYPE	FIXED	MANUFACTURER					MANUFACTURER	MANUFACTURER	ITEM	LOCATION	QTY.	MANUFACTURER	
DRIVE NUMBER	-	MANUFACTURER		TRAVEL DISTANCE	0.77 m	ROLL DIA.	ANGLE	CEMA RATING	SPACING	QTY.	TYPE	SHAFT MOUNTED RIGHT ANGLE	POWER (INSTALLED)	1x74.6 kW (100 HP)	PRIMARY SCRAPER	A	1
CONVEYED FROM	BULKWEIGHER - WS021	TYPE	FABRIC	COUNTERWEIGHT	-	152 mm	20-45	D6	-	3	MODEL No.		TYPE	TEFC	SECONDARY SCRAPER	B	1
CONVEYING TO	BUCKET ELEVATOR - BE01	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	152 mm	45	D6	0.3 M	20	RATIO	19.6	RPM	1800	RETURN BELT PLOW	C	1
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	152 mm	45	D6	1.2 m	1	MECH SERVICE FACTOR	1.5	VOLTAGE	460/3/60	ZERO SPEED SWITCH	D	1
MATERIAL	GRAINS	ELASTIC MODULUS		TOTAL WEIGHT REQ'D	-	152 mm	45	D6	1.2 m	-	THERMAL SERVICE FACTOR	1.0	FRAME SIZE		PULL CORD SWITCH	E	2
DESIGN CAPACITY	1500 MTPH	TOP COVER THICKNESS	6.35 mm	BELT LENGTH		152 mm	0	D6	2.5 m	4	OUTPUT RPM	91.8	SERVICE FACTOR	1.15	MISALIGNMENT SWITCH	F	4
CEMA LOADING (MAX)	90.0%	BOTTOM COVER THICKNESS	3.175 mm	SPLICE LENGTH		152 mm	0	D6	3.0 m	1	INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	HIGH LEVEL SWITCH (PLUGGED CHUTE)	G	1
MATERIAL DEPTH ON BELT	234 mm	BELT THICKNESS (APPROX.)		No. OF SPLICES REQ'D	1	152 mm	45	D6	0.5 m	5	BRAKE Ø HSS	N/A	CONV START TIME	30 S	TAKE-UP OVER TRAVEL LIMIT SWITCH	J	-
BULK DENSITY	720 - 769 kg/m ³	WEIGHT/UNIT LENGTH (±)	23.2 kg/m	TOTAL LENGTH REQ'D	30 m						COOLING TYPE	FAN			START-UP HORN	K	2
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED												START-UP STROBE	L	2
SURCHARGE ANGLE	5-15 DEG	PERMANENT ELONGATION	0.8 %														
BELT SPEED (T RUN)	3.76 m/s (787 FPM)																
POWER REQ'D (T RUN)	30.5 kW (41 HP)																
DRIVE ARRANGEMENT	SINGLE DRIVE ON HEAD PULLEY																
DESIGN TEMPERATURE	-10°C TO +35°C																

PULLEYS										SHAFTS				BEARINGS				DESIGN LOADS						
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (ø)	B (ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE
1	HEAD/DRIVE	SD	1	762 (30")	1300	DRUM	NO	YES/20/RUBBER	SBR 60±5	SAE4140	220	180	1910	500	-	-	TAC	2		29.1	15.4	16.8	11.3	180
2	TAIL/TAKEUP	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2		18.5	18.5	12.3	12.3	180
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GENERAL NOTES

- 1) READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- 2) DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
T MAX IN = 2.5x Te1 + 1.25x Tu
T MAX OUT = 1.25x Tu
HIGH TENSION PULLEYS:
T MAX IN = T MAX OUT = 2.5x Te1 + 1.25x Tu
LOW TENSION PULLEYS:
T MAX IN = T MAX OUT = 1.5x (Tu, T RUN)
- 3) PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 60,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS



**PRELIMINARY
NOT FOR CONSTRUCTION**

REF.	DWG. NUMBER	DESCRIPTION
1	15006-200-ME-050	CONVEYOR 51 - GENERAL ARRANGEMENT

FIBRECO
FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-8543
FAX: (604) 984-2583

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P3	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P2	2015-10-28	ISSUED FOR CLIENT REVIEW	BTR	-	BTR	-	-
P1	2015-09-14	ISSUED FOR BUDGETARY PRICING	BTR	-	BTR	-	-
No.	YYYY-MM-DD	DESCRIPTION					

CWA
www.cwaengineers.com

This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.

FIBRECO EXPORT INC.
NORTH VANCOUVER, B.C.
TERMINAL ENHANCEMENT PROJECT
INBOUND AREA CONVEYOR 51 DATA SHEET

15006 200 DS 003 P3

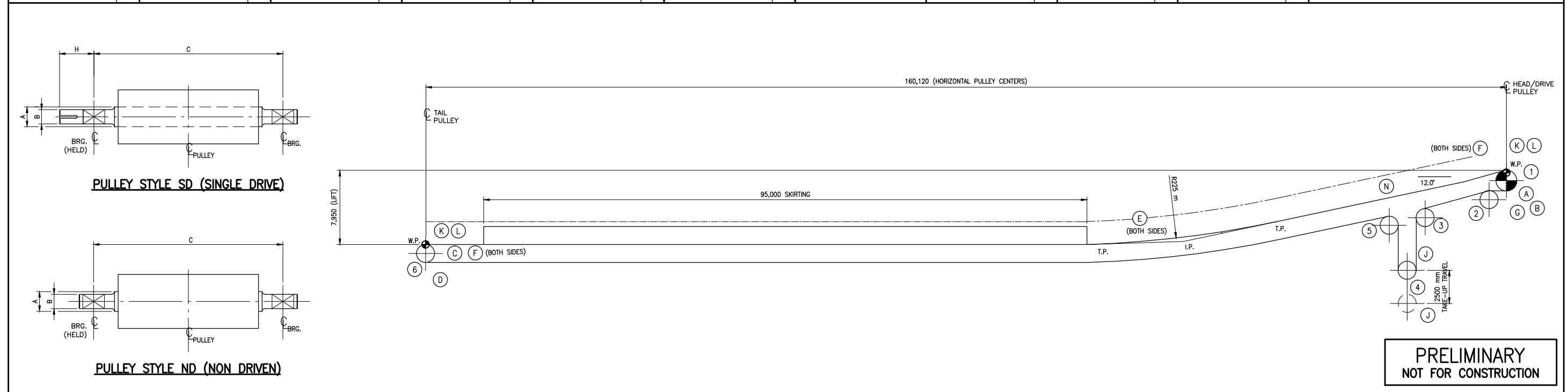
PROJECT No. AREA DEPT. DWG. No. REV.

GENERAL		BELT		TAKE-UP		IDLERS					REDUCERS		MOTORS		ACCESSORIES			
CONVEYOR NUMBER	C60	WIDTH	1524 mm (60")	TYPE	GRAVITY	MANUFACTURER					MANUFACTURER		MANUFACTURER		ITEM	LOCATION	QTY.	MANUFACTURER
DRIVE NUMBER	-	MANUFACTURER		TRAVEL DISTANCE	2.500 m						TYPE	SHAFT MOUNTED RIGHT ANGLE	POWER (INSTALLED)	1x186 kW (250 HP)	PRIMARY SCRAPER	A	1	
CONVEYED FROM	STORAGE SILOS	TYPE	FABRIC	COUNTERWEIGHT	-	TRANSITION IDLER					MODEL No.		TYPE	TEFC	SECONDARY SCRAPER	B	1	
CONVEYING TO	C65	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	IMPACT IDLER (RETRACTABLE)					RATIO	21.43	RPM	1800	RETURN BELT PLOW	C	1	
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	TROUGH CARRYING					MECH SERVICE FACTOR	1.5	VOLTAGE	460/3/60	ZERO SPEED SWITCH	D	1	
MATERIAL	GRAINS OR WOOD PELLETS	ELASTIC MODULUS		TOTAL WEIGHT REQ'D	4490 kg	CARRYING TRAINING IDLER					THERMAL SERVICE FACTOR	1.0	FRAME SIZE		PULL CORD SWITCH	E	6	
DESIGN CAPACITY	2000 MTPH	TOP COVER THICKNESS	6.35 mm	BELT LENGTH		FLAT RETURN IDLER					OUTPUT RPM	81.8	SERVICE FACTOR	1.15	MISALIGNMENT SWITCH	F	4	
CEMA LOADING (MAX)	90.0%	BOTTOM COVER THICKNESS	3.175 mm			RETURN TRAINING IDLER					INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	HIGH LEVEL SWITCH (PLUGGED CHUTE)	G	1	
MATERIAL DEPTH ON BELT	280 mm	BELT THICKNESS (APPROX.)		SPLICE LENGTH		CARRYING IDLER (RETRACTABLE)					BRAKE Ø HSS	N/A	CONV START TIME	30 S	TAKE-UP OVER TRAVEL LIMIT SWITCH	J	2	
BULK DENSITY	720 - 769 kg/m ³	WEIGHT/UNIT LENGTH (±)	29 Kg/m	No. OF SPLICES REQ'D		BELT SCALE QUALITY IDLERS					COOLING TYPE	FAN	HAZARDOUS RATING	CLASS II DIV 1 GROUP F	START-UP HORN	K	2	
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED	TOTAL LENGTH REQ'D											START-UP STROBE	L	2	
SURCHARGE ANGLE	5-15 DEG	PERMANENT ELONGATION	0.8 %								HIGH SPEED COUPLINGS		LOW SPEED COUPLINGS		BELT SCALE - 2 IDLER (0.5% ACCURACY)			
BELT SPEED (T RUN)	3.4 m/s (669 FPM)										MANUFACTURER		TBD					
POWER REQ'D (T RUN)	152 kW (203 HP)										TYPE/MODEL No.		FLEXIBLE JAW		MANUFACTURER		TBD	
DRIVE ARRANGEMENT	SINGLE DRIVE ON HEAD PULLEY										SERVICE FACTOR		1.5		TYPE/MODEL No.		RIGID	
															SERVICE FACTOR		1.5	

PULLEYS										SHAFTS				BEARINGS				DESIGN LOADS						
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (ø)	B (ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE
1	HEAD/DRIVE	SD	1	762 (30")	1680	DRUM	NO	YES/20/RUBBER	SBR 60±5	SAE4140	240	180	2290	400	-	-	TAC	2				62	22	205
2	LT SNUB	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2				22	22	25
3	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2				22	22	85
4	TAKE-UP	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2				22	22	180
5	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2				23	23	95
6	LT TAIL	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2				24	24	180

GENERAL NOTES

- 1) READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- 2) DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
 $T_{MAX IN} = 2.5x T_{e1} + 1.25x T_u$
 $T_{MAX OUT} = 1.25x T_u$
HIGH TENSION PULLEYS:
 $T_{MAX IN} = T_{MAX OUT} = 2.5x T_{e1} + 1.25x T_u$
LOW TENSION PULLEYS:
 $T_{MAX IN} = T_{MAX OUT} = 1.5x (T_u, T_{RUN})$
- 3) PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 60,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS



**PRELIMINARY
NOT FOR CONSTRUCTION**

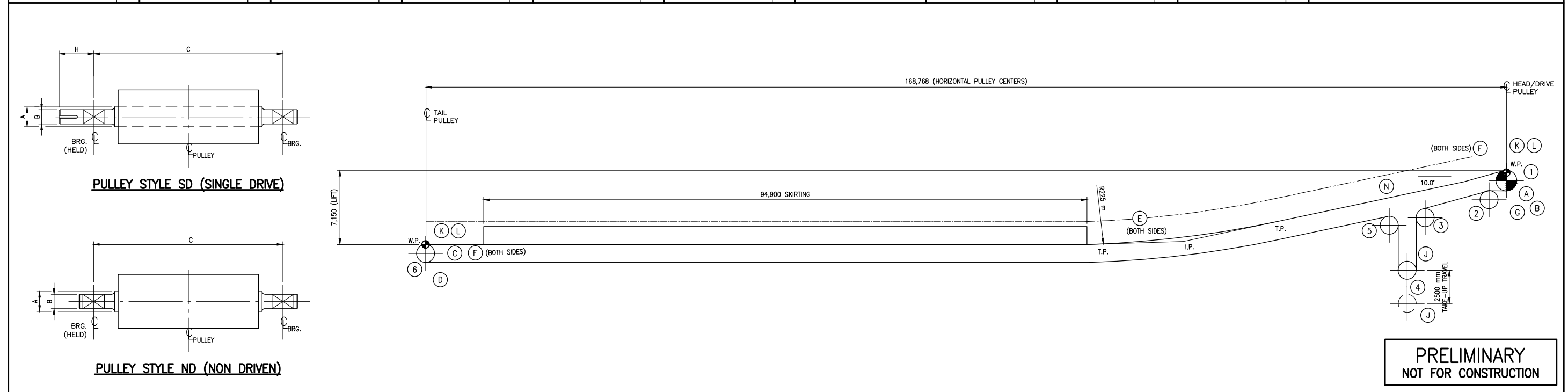
FIBRECO FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-8543 FAX: (604) 984-2583		CWA www.cwaengineers.com This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.		FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. TERMINAL ENHANCEMENT PROJECT STORAGE AREA CONVEYOR 60 DATA SHEET																					
1	15006-300-ME-030	CONVEYOR 60 - GENERAL ARRANGEMENT	JHY	HSN	BTR	HSN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REF.	DWG. NUMBER	DESCRIPTION	NO.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	DRAWN BY:	SCALE:	PROJECT No.	AREA	DEPT.	DWG. No.	REV.								
											BTR	NTS	15006	300	DS	006	P3								

GENERAL		BELT		TAKE-UP		IDLERS					REDUCERS		MOTORS		ACCESSORIES		
CONVEYOR NUMBER	C60	WIDTH	1524 mm (60")	TYPE	GRAVITY	MANUFACTURER					MANUFACTURER	MANUFACTURER	ITEM	LOCATION	QTY.	MANUFACTURER	
DRIVE NUMBER	-	MANUFACTURER		TRAVEL DISTANCE	2.500 m	ROLL DIA.	ANGLE	CEMA RATING	SPACING	QTY.	TYPE	SHAFT MOUNTED RIGHT ANGLE	POWER (INSTALLED)	1x186 kW (250 HP)	PRIMARY SCRAPER	A	1
CONVEYED FROM	STORAGE SILOS	TYPE	FABRIC	COUNTERWEIGHT	-	152 mm	20-45	D6	-	4	MODEL No.		TYPE	TEFC	SECONDARY SCRAPER	B	1
CONVEYING TO	C65	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	152 mm	45	D6	0.3 M	60	RATIO	22.070	RPM	1800	RETURN BELT PLOW	C	1
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	152 mm	45	D6	1.2 m	50	MECH SERVICE FACTOR	1.5	VOLTAGE	460/3/60	ZERO SPEED SWITCH	D	1
MATERIAL	GRAINS	ELASTIC MODULUS		TOTAL WEIGHT REQ'D	4100 kg	152 mm	45	D6	1.2 m	3	THERMAL SERVICE FACTOR	1.0	FRAME SIZE		PULL CORD SWITCH	E	6
DESIGN CAPACITY	2000 MTPH	TOP COVER THICKNESS	6.35 mm	BELT LENGTH		152 mm	0	D6	3.0 m	53	OUTPUT RPM	81.6	SERVICE FACTOR	1.15	MISALIGNMENT SWITCH	F	4
CEMA LOADING (MAX)	83.0%	BOTTOM COVER THICKNESS	3.175 mm			152 mm	0	D6	3.0 m	3	INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	HIGH LEVEL SWITCH (PLUGGED CHUTE)	G	1
MATERIAL DEPTH ON BELT	280 mm	BELT THICKNESS (APPROX.)		SPLICE LENGTH		152 mm	45	D6	0.5 M	154	BRAKE Ø HSS	N/A	CONV START TIME	30 S	TAKE-UP OVER TRAVEL LIMIT SWITCH	J	2
BULK DENSITY	720 - 769 kg/m ³	WEIGHT/UNIT LENGTH (±)	29 Kg/m	No. OF SPLICES REQ'D	1	152 mm	45	D6	1.2 m	8	COOLING TYPE	FAN	HAZARDOUS RATING	CLASS II DIV 1 GROUP F	START-UP HORN	K	2
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED	TOTAL LENGTH REQ'D	349 M										START-UP STROBE	L	2
SURCHARGE ANGLE	5-15 DEG	PERMANENT ELONGATION	0.8 %												BELT SCALE - 2 IDLER (0.5% ACCURACY)	N	1
BELT SPEED (T RUN)	3.4 m/s (669 FPM)																
POWER REQ'D (T RUN)	149 kW (200 HP)																
DRIVE ARRANGEMENT	SINGLE DRIVE ON HEAD PULLEY																

PULLEYS										SHAFTS				BEARINGS				DESIGN LOADS						
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (Ø)	B (Ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE
1	HEAD/DRIVE	SD	1	762 (30")	1680	DRUM	NO	YES/20/RUBBER	SBR 60±5	SAE4140	240	180	2290	400	-	-	TAC	2		122.0	25.0	59.0	20.2	203
2	LT SNUB	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2		30.5	30.5	20.3	20.3	25
3	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2		31.8	31.8	21.2	21.2	78
4	TAKE-UP	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2		30.0	30.0	20.0	20.0	180
5	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2		31.8	31.8	21.2	21.2	102
6	LT TAIL	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2		32.6	32.6	21.7	21.7	180

GENERAL NOTES

- READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
T MAX IN = 2.5x Te1 + 1.25x Tu
T MAX OUT = 1.25x Tu
HIGH TENSION PULLEYS:
T MAX IN = T MAX OUT = 2.5x Te1 + 1.25x Tu
LOW TENSION PULLEYS:
T MAX IN = T MAX OUT = 1.5x (Tu, T RUN)
- PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 60,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS



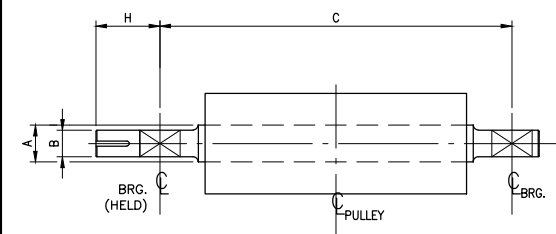
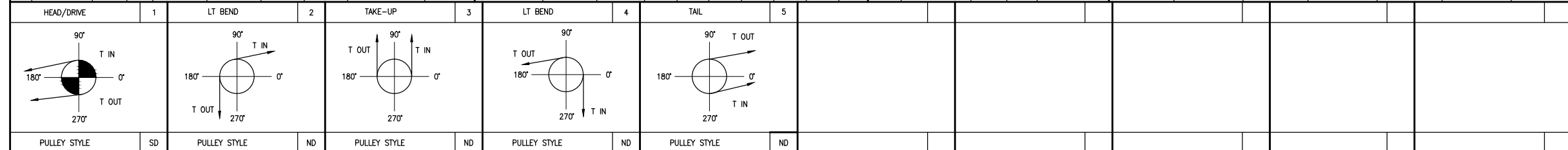
FIBRECO FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-8543 FAX: (604) 984-2583		CWA www.cwaengineers.com This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.		FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. TERMINAL ENHANCEMENT PROJECT STORAGE AREA CONVEYOR 61 DATA SHEET																					
1	15006-300-ME-035	CONVEYOR 61 - GENERAL ARRANGEMENT	JHY	HSN	BTR	HSN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REF.	DWG. NUMBER	DESCRIPTION	NO.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	DRAWN BY:	SCALE:	PROJECT No.	AREA	DEPT.	DWG. No.	REV.								
											BTR	NTS	15006	300	DS	007	P3								

GENERAL		BELT		TAKE-UP		IDLERS					REDUCER		MOTOR		ACCESSORIES													
CONVEYOR NUMBER	C65	WIDTH	1524 mm (60")	TYPE	GRAVITY	MANUFACTURER					MANUFACTURER	SHAFT MOUNTED RIGHT ANGLE	MANUFACTURER	POWER (INSTALLED)	1x74.6 kW (100 HP)	ITEM	LOCATION	QTY.	MANUFACTURER									
DRIVE NUMBER	-	MANUFACTURER		TRAVEL DISTANCE	1.5 m						TYPE		TYPE (INSTALLED)		PRIMARY SCRAPER	A	1											
CONVEYED FROM	C60 OR C61	TYPE	FABRIC	COUNTERWEIGHT	-	TRANSITION IDLER					ROLL DIA.	152 mm	ANGLE	20-45	CEMA RATING	D6	SPACING	-	QTY.	3	MODEL No.		TYPE	TEFC	SECONDARY SCRAPER	B	1	
CONVEYING TO	C3 OR C66	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	IMPACT IDLER (RETRACTABLE)					152 mm	45	D6	0.3 M	22	RATIO	21.43	RPM	1800	VOLTAGE	460/3/60	RETURN BELT PLOW	C	1				
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	TROUGH CARRYING					152 mm	45	D6	1.2 m	17	MECH SERVICE FACTOR	1.5	THERMAL SERVICE FACTOR	1.0	FRAME SIZE		ZERO SPEED SWITCH	D	1				
MATERIAL	GRAINS	ELASTIC MODULUS		TOTAL WEIGHT REQ'D	2040 kg	CARRYING TRAINING IDLER					152 mm	45	D6	1.2 m	1	OUTPUT RPM	81.8	INTERNAL BACKSTOP	YES	SERVICE FACTOR	1.15	PULL CORD SWITCH	E	2				
DESIGN CAPACITY	2000 MTPH	TOP COVER THICKNESS	6.35 mm	BELT LENGTH		FLAT RETURN IDLER					152 mm	0	D6	3.5 m	14	RETURN RPM		INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	MISALIGNMENT SWITCH	F	4				
CEMA LOADING (MAX)	90.0%	BOTTOM COVER THICKNESS	3.175 mm	SPLICE LENGTH		RETURN TRAINING IDLER					152 mm	0	D6	3.5 m	1	INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	CONV START TIME	15 S	HIGH LEVEL SWITCH (PLUGGED CHUTE)	G	1				
MATERIAL DEPTH ON BELT	280 mm	BELT THICKNESS (APPROX.)		TOTAL LENGTH REQ'D		CARRYING IDLER (RETRACTABLE)					152 mm	45	D6	0.5 M	30	BRAKE Ø HSS	N/A	CONV START TIME	15 S	HAZARDOUS RATING	CLASS II DIV 1 GROUP F	TAKE-UP OVER TRAVEL LIMIT SWITCH	J	2				
BULK DENSITY	720 - 769 kg/m ³	WEIGHT/UNIT LENGTH (±)	29.5 kg/m	No. OF SPLICES REQ'D												COOLING TYPE	FAN	HAZARDOUS RATING	CLASS II DIV 1 GROUP F	START-UP HORN	K	2						
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED	TOTAL LENGTH REQ'D		103 m														START-UP STROBE	L	2						
SURCHARGE ANGLE	5-15 DEG	PERMANENT ELONGATION	0.8 %																	BELT SCALE	M	-						
BELT SPEED (T RUN)	3.4 m/s (669 FPM)															HIGH SPEED COUPLINGS		LOW SPEED COUPLINGS										
POWER REQ'D (T RUN)	59.9 kW (80.3 HP)															MANUFACTURER	TBD	MANUFACTURER	TBD									
DRIVE ARRANGEMENT	SINGLE DRIVE ON HEAD PULLEY															TYPE/MODEL No.	FLEXIBLE JAW	TYPE/MODEL No.	RIGID									
DESIGN TEMPERATURE	-10°C TO +35°C															SERVICE FACTOR	1.5	SERVICE FACTOR	1.5									

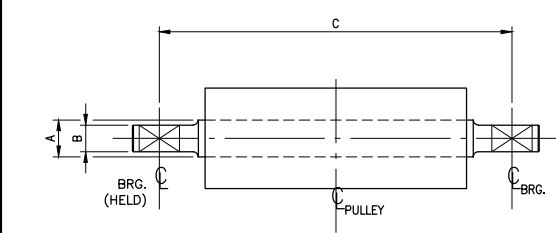
PULLEYS										SHAFTS				BEARINGS				DESIGN LOADS						
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (Ø)	B (Ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE
1	HEAD/DRIVE	SD	1	762 (30")	1680	DRUM	NO	YES/20/RUBBER	SBR 60±5	SAE4140	240	180	2290	-	-	-	TAC	2		48	12.5	25.3	11.1	180
2	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2		16.8	16.8	11.2	11.2	85
3	TAKE-UP	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2		15	15	10	10	180
4	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2		17	17	11.3	11.3	94
5	LT TAIL	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2140	-	-	-	TAC	2		18	18	12	12	180

GENERAL NOTES

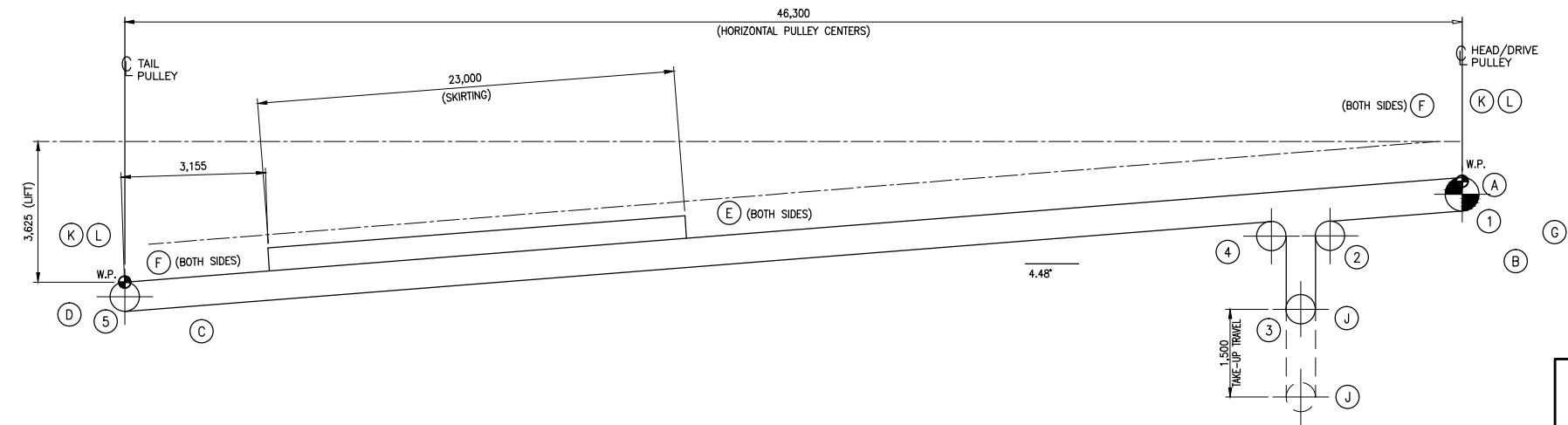
- 1) READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- 2) DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
T MAX IN = 2.5x Te1 + 1.25x Tu
T MAX OUT = 1.25x Tu
HIGH TENSION PULLEYS:
T MAX IN = T MAX OUT = 2.5x Te1 + 1.25x Tu
LOW TENSION PULLEYS:
T MAX IN = T MAX OUT = 1.5x (Tu, T RUN)
- 3) PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 60,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS



PULLEY STYLE SD (SINGLE DRIVE)



PULLEY STYLE ND (NON DRIVEN)



**PRELIMINARY
NOT FOR CONSTRUCTION**

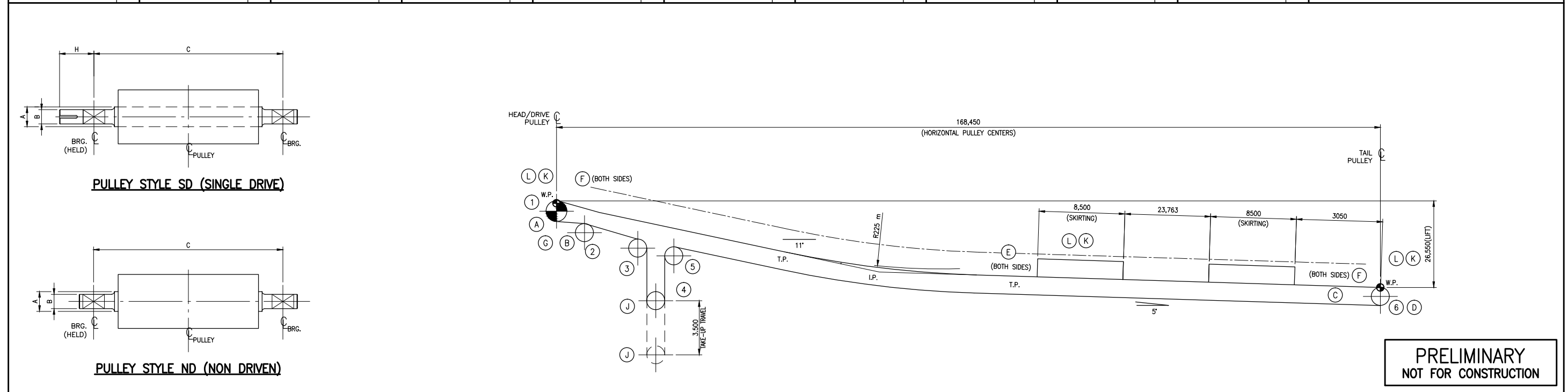
FIBRECO FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-8543 FAX: (604) 984-2583		CWA www.cwaengineers.com <small>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</small>		FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. TERMINAL ENHANCEMENT PROJECT OUTBOUND AREA CONVEYOR 65 DATA SHEET																						
1	15006-400-ME-010	CONVEYOR 65 - GENERAL ARRANGEMENT	JHY	HSN	BTR	HSN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REF.	DWG. NUMBER	DESCRIPTION	NO.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	DRAWN BY	SCALE	PROJECT No.	AREA	DEPT.	DWG. No.	REV.									
											LJG	NTS	15006	400	DS	008	P3									

GENERAL		BELT		TAKE-UP		IDLERS					REDUCERS		MOTORS		ACCESSORIES		
CONVEYOR NUMBER	C66	WIDTH	1524 mm (60")	TYPE	GRAVITY	MANUFACTURER					MANUFACTURER	MANUFACTURER	ITEM	LOCATION	QTY.	MANUFACTURER	
DRIVE NUMBER	-	MANUFACTURER		TRAVEL DISTANCE	3.5 m	ROLL DIA.	ANGLE	CEMA RATING	SPACING	QTY.	TYPE	SHAFT MOUNTED RIGHT ANGLE	POWER (INSTALLED)	1x260 kW (350 HP)	PRIMARY SCRAPER	A	1
CONVEYED FROM	C15 OR C65	TYPE	FABRIC	COUNTERWEIGHT	-	152 mm	20-45	D6	-	4	MODEL No.		TYPE	TEFC	SECONDARY SCRAPER	B	1
CONVEYING TO	CV3 or BULK WEIGHER - WS-02	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	152 mm	45	D6	0.3 M	20	RATIO	21.45	RPM	1780	RETURN BELT PLOW	C	1
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	152 mm	45	D6	1.0 m	150	MECH SERVICE FACTOR	1.5	VOLTAGE	460/3/60	ZERO SPEED SWITCH	D	1
MATERIAL	GRAINS	ELASTIC MODULUS		TOTAL WEIGHT REQ'D	5,700 kg	152 mm	45	D6	1.0 m	3	THERMAL SERVICE FACTOR	1.0	FRAME SIZE		PULL CORD SWITCH	E	6
DESIGN CAPACITY	2000 MTPH	TOP COVER THICKNESS	6.35 mm	BELT LENGTH		152 mm	0	D6	3.0 m	53	OUTPUT RPM	83.0	SERVICE FACTOR	1.15	MISALIGNMENT SWITCH	F	4
CEMA LOADING (MAX)	83.0%	BOTTOM COVER THICKNESS	3.175 mm	SPLICE LENGTH		152 mm	0	D6	3.0 m	3	INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	HIGH LEVEL SWITCH (PLUGGED CHUTE)	G	1
MATERIAL DEPTH ON BELT	280 mm	BELT THICKNESS (APPROX.)		No. OF SPLICES REQ'D	1	152 mm	45	D6	0.5 M	22	BRAKE Ø HSS	N/A	CONV START TIME	30 S	TAKE-UP OVER TRAVEL LIMIT SWITCH	J	2
BULK DENSITY	720 - 769 kg/m ³	WEIGHT/UNIT LENGTH (±)	29.5 kg/m	TOTAL LENGTH REQ'D	353 m						COOLING TYPE	FAN	HAZARDOUS RATING	CLASS II DIV 1 GROUP F	START-UP HORN	K	3
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED												START-UP STROBE	L	3
SURCHARGE ANGLE	5-15 DEG	PERMANENT ELONGATION	0.8 %														
BELT SPEED (T RUN)	3.4 m/s (669 FPM)																
POWER REQ'D (T RUN)	219 kW (294 HP)																
DRIVE ARRANGEMENT	SINGLE DRIVE ON HEAD PULLEY																
DESIGN TEMPERATURE	-10°C TO +35°C																

PULLEYS										SHAFTS				BEARINGS				DESIGN LOADS						
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (ø)	B (ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE
1	HEAD/DRIVE	SD	1	762 (30")	1680	DRUM	NO	YES/20/RUBBER	SBR 60±5	SAE4140	240	180	2350	500	-	-	TAC	2		180.8	35.3	86.3	28.1	205
2	SNUB	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2200	-	-	-	TAC	2		42.5	42.5	28.2	28.3	28
3	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2200	-	-	-	TAC	2		42.5	42.5	28.2	29.2	76
4	TAKE-UP	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2200	-	-	-	TAC	2		42.5	42.5	28.0	28.2	180
5	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2200	-	-	-	TAC	2		44.3	44.3	29.3	29.5	101
6	LT TAIL	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2200	-	-	-	TAC	2		42.5	42.5	24.1	24.9	180

GENERAL NOTES

- 1) READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- 2) DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
T MAX IN = 2.5x Te1 + 1.25x Tu
T MAX OUT = 1.25x Tu
HIGH TENSION PULLEYS:
T MAX IN = T MAX OUT = 2.5x Te1 + 1.25x Tu
LOW TENSION PULLEYS:
T MAX IN = T MAX OUT = 1.5x (Tu, T RUN)
- 3) PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 60,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS



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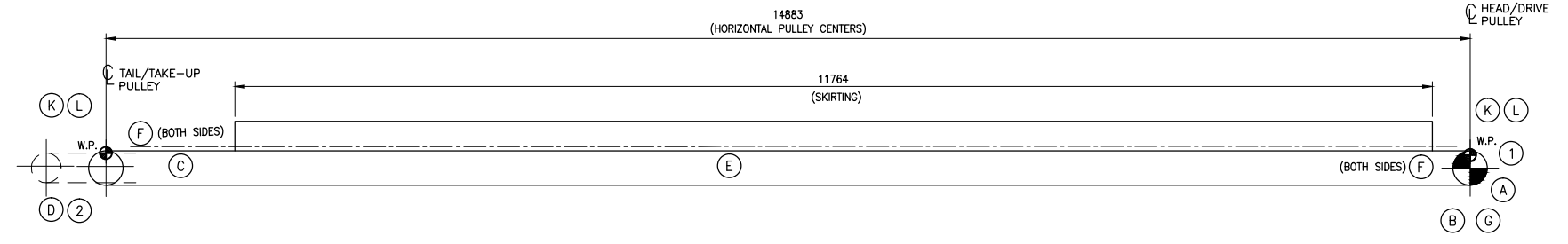
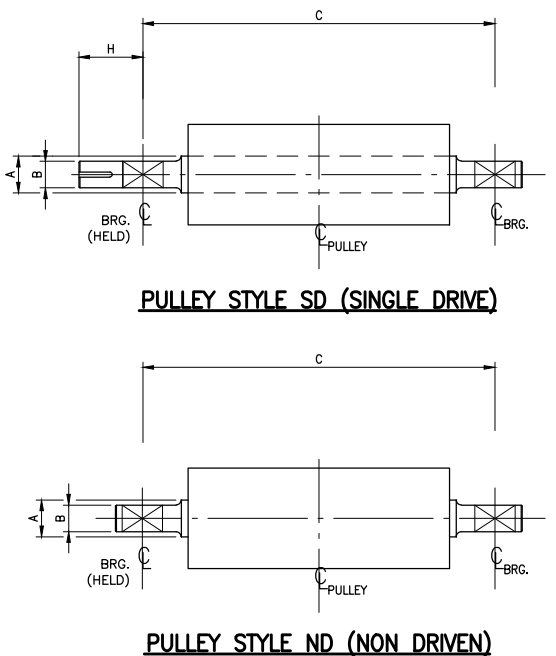
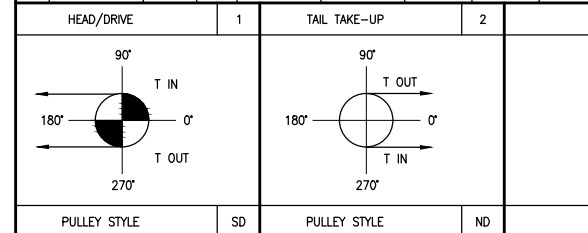
FIBRECO FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-8543 FAX: (604) 984-2583		CWA www.cwaengineers.com <small>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</small>		FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. TERMINAL ENHANCEMENT PROJECT OUTBOUND AREA CONVEYOR 66 DATA SHEET																					
1	15006-200-ME-060	CONVEYOR 66 - GENERAL ARRANGEMENT	JHY	HSN	BTR	HSN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REF.	DWG. NUMBER	DESCRIPTION	No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	15006 400 DS 009 P3		PROJECT No.	AREA	DEPT.	DWG. No.	REV.								
REFERENCE DRAWINGS / DESIGN STANDARDS			CLIENT PROJECT No:			CWA ACAD FILE: 15006-400-DS-009_P3.DWG			ISSUES / REVISIONS			* HAND INITIALS ON FILE			DRAWN BY: LGJ			SCALE: NTS							

GENERAL				BELT			TAKE-UP		IDLERS					REDUCERS		MOTORS			ACCESSORIES		
CONVEYOR NUMBER	C71A	WIDTH	1219 mm (48")	TYPE	FIXED	MANUFACTURER		ROLL DIA.	ANGLE	CEMA RATING	SPACING	QTY.	MANUFACTURER	SHAFT MOUNTED RIGHT ANGLE	MANUFACTURER	POWER (INSTALLED)	1x37.3 kW (50 HP)	ITEM	LOCATION	QTY.	MANUFACTURER
DRIVE NUMBER	-	MANUFACTURER		TRAVEL DISTANCE				152 mm	20-35	D6	-	4	MODEL No.		TYPE	TEFC		PRIMARY SCRAPER	A	1	
CONVEYED FROM	C71	TYPE	FABRIC	COUNTERWEIGHT	-	TRANSITION IDLER		152 mm	35	D6	-	11	RATIO	20.46	RPM	1800		SECONDARY SCRAPER	B	1	
CONVEYING TO	C72	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	IMPACT IDLERS (RETRACTABLE)		152 mm	35	D6	0.3 M	0	MECH SERVICE FACTOR	1.5	VOLTAGE	460/3/60		RETURN BELT PLOW	C	1	
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	TROUGH CARRYING		152 mm	35	D6	1.0 m	0	THERMAL SERVICE FACTOR	1.0	FRAME SIZE			ZERO SPEED SWITCH	D	1	
MATERIAL	WOOD PELLETS	ELASTIC MODULUS		TOTAL WEIGHT REQ'D		CARRYING TRAINING IDLER		152 mm	35	D6	1.0 m	0	OUTPUT RPM	87.2	SERVICE FACTOR	1.15		PULL CORD SWITCH	E	2	
DESIGN CAPACITY	1500 MTPH	TOP COVER THICKNESS	6.35 mm	BELT LENGTH			FLAT RETURN IDLER		152 mm	0	D6	3.0 m	5	INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	MISALIGNMENT SWITCH	F	4	
CEMA LOADING (MAX)	90.0%	BOTTOM COVER THICKNESS	3.175 mm				RETURN TRAINING IDLERS		152 mm	0	D6	3.0 m	1	INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	HAZARDOUS RATING	CLASS II DIV 1 GROUP F	HIGH LEVEL SWITCH (PLUGGED CHUTE)	G
MATERIAL DEPTH ON BELT	241 mm	BELT THICKNESS (APPROX.)		SPLICE LENGTH		TROUGH CARRYING (RETRACTABLE)		152 mm	35	D6	1.0 m	19	COOLING TYPE	FAN	HAZARDOUS RATING	CLASS II DIV 1 GROUP F	TAKE-UP OVER TRAVEL LIMIT SWITCH	J	0		
BULK DENSITY	720 kg/m ³	WEIGHT/UNIT LENGTH (±)	23.2 kg/m	No. OF SPLICES REQ'D	1												START-UP HORN	K	2		
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED	TOTAL LENGTH REQ'D	31 m												START-UP STROBE	L	2		
SURCHARGE ANGLE	15 DEG	PERMANENT ELONGATION	0.8 %																		
BELT SPEED (T RUN)	3.8 m/s (747 FPM)																				
POWER REQ'D (T RUN)	27 kW (37 HP)																				
DRIVE ARRANGEMENT	SINGLE DRIVE ON HEAD PULLEY																				
DESIGN TEMPERATURE	-10°C TO +35°C																				

PULLEYS										SHAFTS				BEARINGS				DESIGN LOADS						
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (ø)	B (ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE
1	HEAD/DRIVE	SD	1	762 (30")	1300	DRUM	NO	YES/20/RUBBER	SBR 60±5	SAE4140	220	180	1910	300	-	-	TAC	2		18	8	10	6	180
2	TAIL & TAKE-UP	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2		9	9	6	6	180

GENERAL NOTES

- READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
 $T_{MAX IN} = 2.5x T_{e1} + 1.25x T_u$
 $T_{MAX OUT} = 1.25x T_u$
HIGH TENSION PULLEYS:
 $T_{MAX IN} = T_{MAX OUT} = 2.5x T_{e1} + 1.25x T_u$
LOW TENSION PULLEYS:
 $T_{MAX IN} = T_{MAX OUT} = 1.5x (T_u, T RUN)$
- PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 60,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS

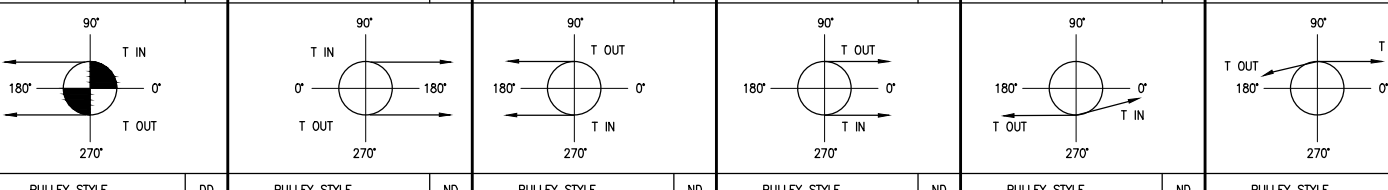


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FIBRECO FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-8543 FAX: (604) 984-2583		CWA www.cwaengineers.com This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.		FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. TERMINAL ENHANCEMENT PROJECT PELLET SYSTEM AREA CONVEYOR CV071A DATA SHEET	
1	15006-400-ME-001	CONVEYOR 71A - GENERAL ARRANGEMENT			
REF.	DWG. NUMBER	DESCRIPTION			
REFERENCE DRAWINGS / DESIGN STANDARDS			CLIENT PROJECT No:	CWA ACAD FILE: 15006-600-05-015.DWG	ISSUES / REVISIONS
					* HAND INITIALS ON FILE
					DRAWN BY: LGJ SCALE: NTS PROJECT No. AREA DEPT. DWG. No. REV.

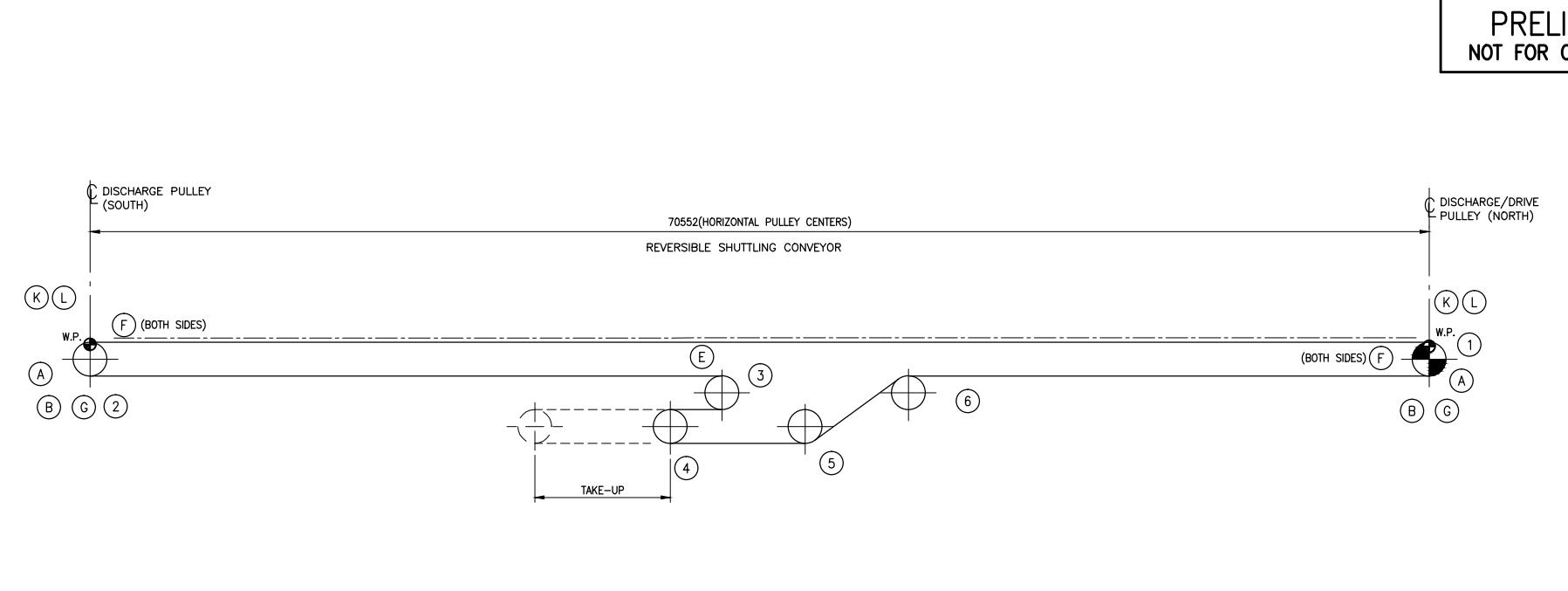
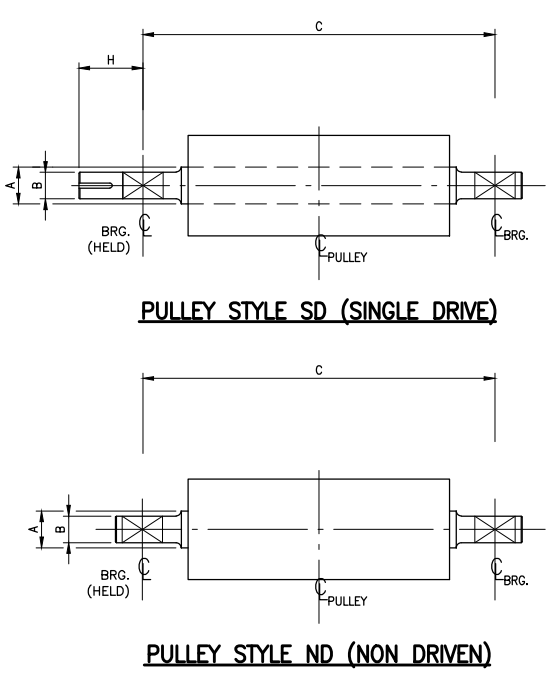
GENERAL			BELT			TAKE-UP			IDLERS					REDUCERS		MOTORS		ACCESSORIES				
CONVEYOR NUMBER	C72	WIDTH	1219 mm (48")	TYPE	FIXED	MANUFACTURER	ROLL DIA.	ANGLE	CEMA RATING	SPACING	QTY.	MANUFACTURER	SHAFT MOUNTED RIGHT ANGLE	POWER (INSTALLED)	1x75 kW (100 HP)	ITEM	LOCATION	QTY.	MANUFACTURER			
DRIVE NUMBER	-	MANUFACTURER		TRAVEL DISTANCE			152 mm	20-35	D6	-	4	TYPE				PRIMARY SCRAPER	A	2				
CONVEYED FROM	C71A	TYPE	FABRIC	COUNTERWEIGHT	-	TRANSITION IDLER	152 mm	35	D6	-	4	MODEL No.				SECONDARY SCRAPER	B	2				
CONVEYING TO	PELLET STORAGE SILOS	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	IMPACT IDLERS (RETRACTABLE)	152 mm	35	D6	0.3 M	236	RATIO	20.46			RETURN BELT PLOW	C	0				
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	TROUGH CARRYING	152 mm	35	D6	1.0 m	0	MECH SERVICE FACTOR	1.5			ZERO SPEED SWITCH	D	1				
MATERIAL	WOOD PELLETS	ELASTIC MODULUS		TOTAL WEIGHT REQ'D		CARRYING TRAINING IDLER	152 mm	35	D6	1.0 m	0	THERMAL SERVICE FACTOR	1.0			PULL CORD SWITCH	E	2				
DESIGN CAPACITY	1500 MTPH	TOP COVER THICKNESS	6.35 mm	BELT LENGTH		FLAT RETURN IDLER	152 mm	0	D6	3.0 m	22	OUTPUT RPM	87.3			MISALIGNMENT SWITCH	F	4				
CEMA LOADING (MAX)	90.0%	BOTTOM COVER THICKNESS	3.175 mm			RETURN TRAINING IDLERS	152 mm	0	D6	3.0 m	2	INTERNAL BACKSTOP	NO				V.F.D. REQ'D	YES		HIGH LEVEL SWITCH (PLUGGED CHUTE)	G	2
MATERIAL DEPTH ON BELT	241 mm	BELT THICKNESS (APPROX.)		SPLICE LENGTH								COOLING TYPE	FAN			HAZARDOUS RATING	CLASS II DIV 1 GROUP F		START-UP HORN	K	2	
BULK DENSITY	720 kg/m ³	WEIGHT/UNIT LENGTH (±)	23.2 kg/m	No. OF SPLICES REQ'D	1														START-UP STROBE	L	2	
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED	TOTAL LENGTH REQ'D	150 m																	
SURCHARGE ANGLE	15 DEG	PERMANENT ELONGATION	0.8 %																			
BELT SPEED (T RUN)	4.5 m/s (886 FPM)																					
POWER REQ'D (T RUN)	84 kW (110 HP)																					
DRIVE ARRANGEMENT	SINGLE REVERSIBLE DRIVE ON HEAD PULLEY																					
DESIGN TEMPERATURE	-10°C TO +35°C																					

PULLEYS															SHAFTS					BEARINGS				DESIGN LOADS					GENERAL NOTES
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (ø)	B (ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE					
1	DISCHARGE/DRIVE	SD	1	914 (36")	1300	DRUM	NO	YES/20/RUBBER	SBR 60±5	SAE4140	220	180	1910	200	-	-	TAC	2		70	30	39	23	180					
2	DISCHARGE SOUTH	ND	1	914 (36")	1300	DRUM	NO	YES/20/RUBBER	SBR 50±5	SAE4140	220	180	1910	-	-	-	TAC	2		35	35	23	23	180					
3	LT BEND	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2		35	35	23	23	180					
4	TAKE-UP	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2		35	35	24	24	180					
5	LT BEND	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2		35	35	24	24	30					
6	LT BEND	ND	1	610 (24")	1300	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	140	120	1760	-	-	-	TAC	2		35	35	24	24	50					



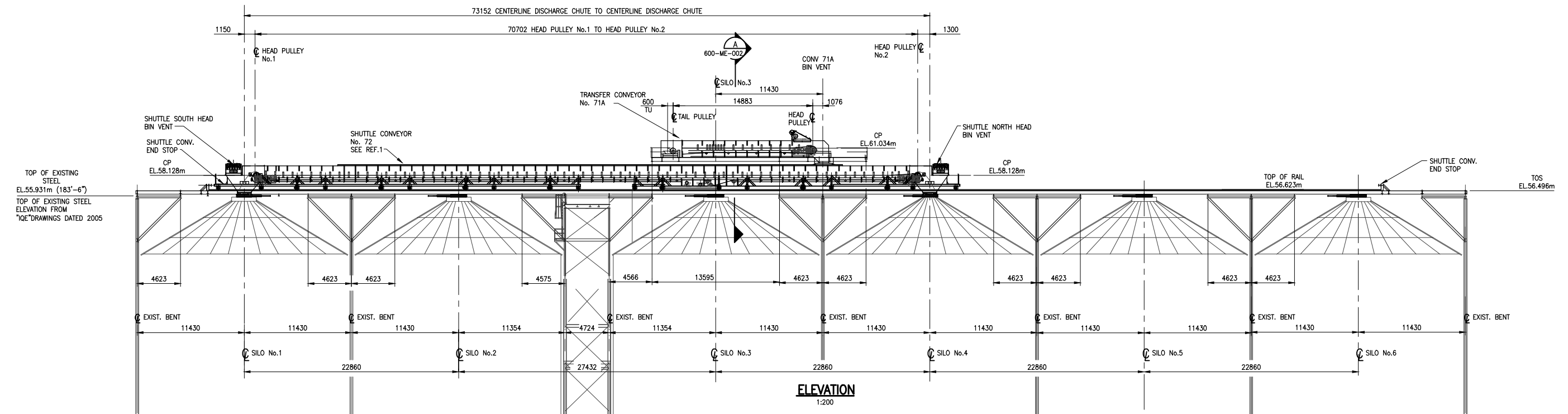
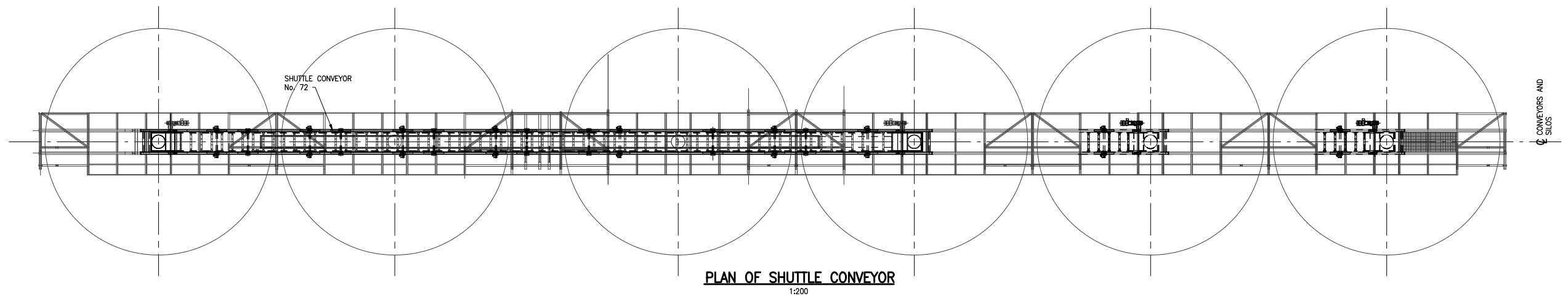
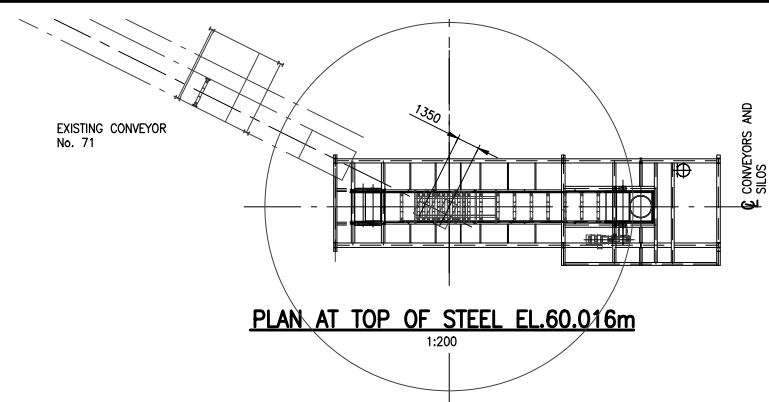
GENERAL NOTES

- 1) READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- 2) DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
T MAX IN = 2.5x Te1 + 1.25x Tu
T MAX OUT = 1.25x Tu
HIGH TENSION PULLEYS:
T MAX IN = T MAX OUT = 2.5x Te1 + 1.25x Tu
LOW TENSION PULLEYS:
T MAX IN = T MAX OUT = 1.5x (Tu, T RUN)
- 3) PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 60,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS




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FIBRECO FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-8543 FAX: (604) 984-2583			CWA www.cwaengineers.com <small>This drawing has been prepared by CWA Engineers Inc. as an instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</small>			FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. TERMINAL ENHANCEMENT PROJECT PELLET SYSTEM AREA CONVEYOR CV072 DATA SHEET											
1	15006-600-ME-001	CONVEYOR 72 - GENERAL ARRANGEMENT	P2	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	-	-	-	-	-	-	-
REF.	DWG. NUMBER	DESCRIPTION	No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	DRAWN BY: LGJ	SCALE: NTS	PROJECT No.	AREA	DEPT.	DWG. No.	REV.
													15006	600	DS	016	P2




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1		
REF.	DWG. NUMBER	DESCRIPTION
REFERENCE DRAWINGS / DESIGN STANDARDS		



FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
ISSUES / REVISIONS							



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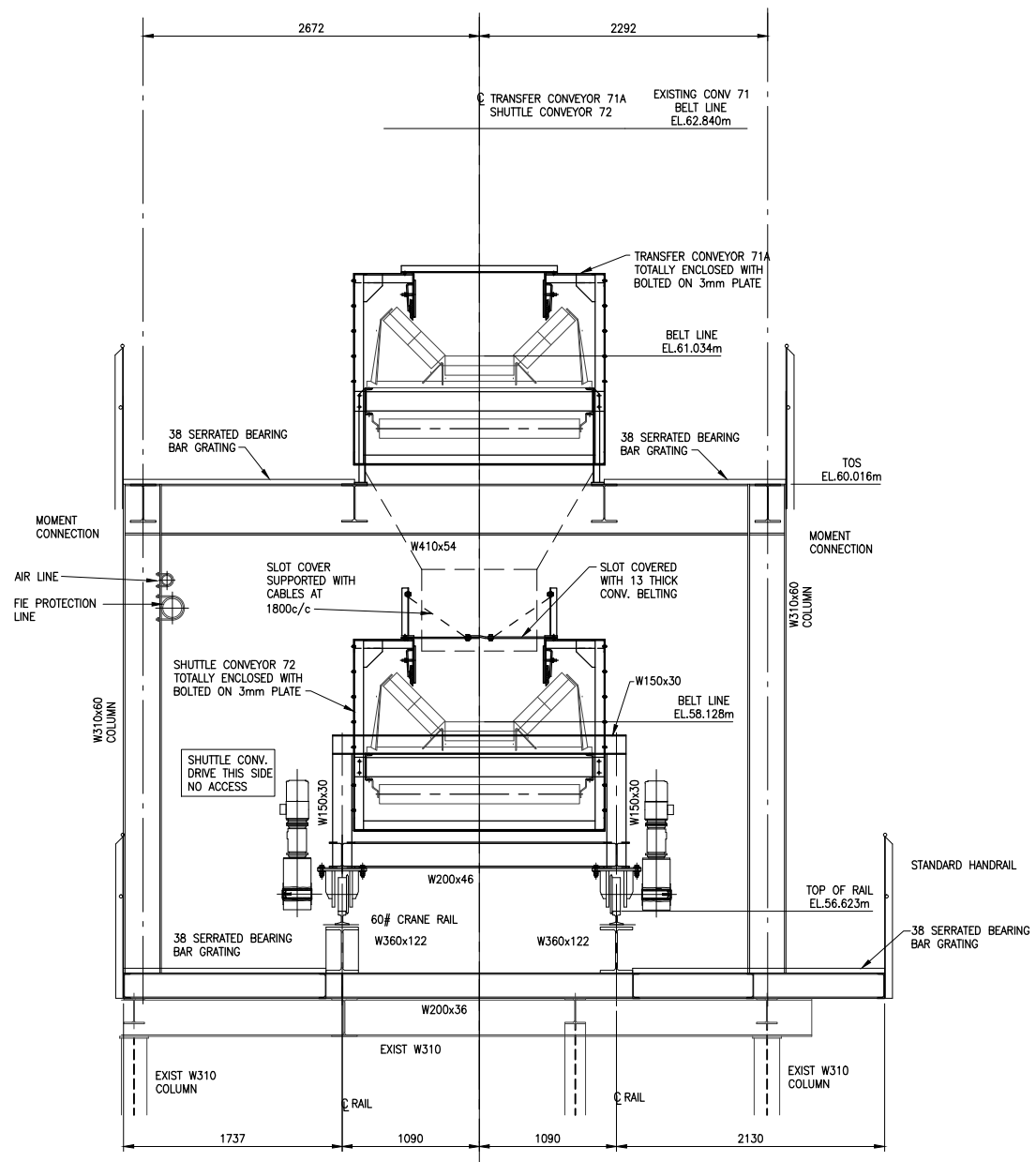
FIBRECO EXPORT INC.
NORTH VANCOUVER, B.C.

FIBRECO TERMINAL ENHANCEMENT PROJECT

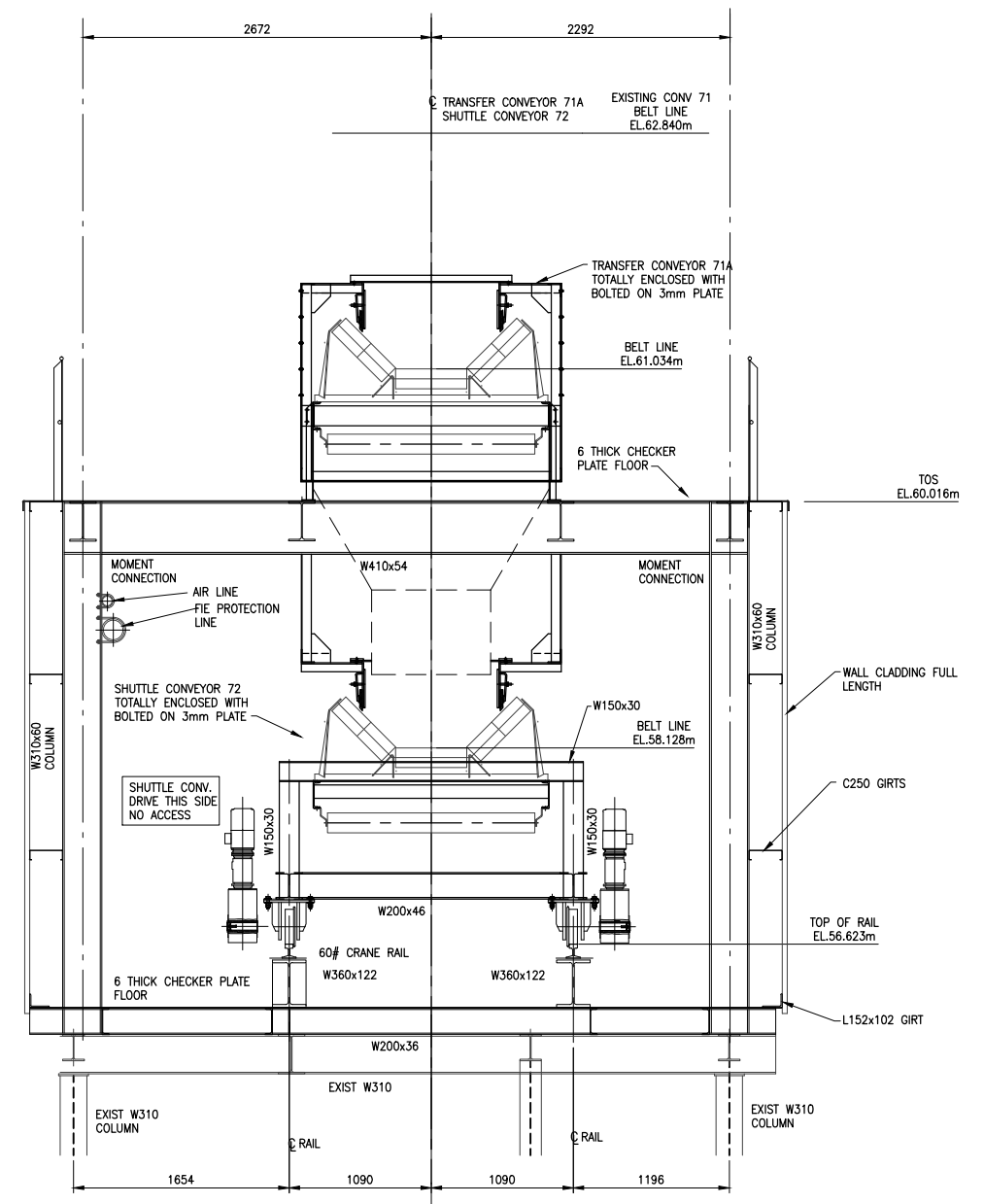
PELLET SYSTEM AREA
CONVEYOR 72
GENERAL ARRANGEMENT

15006 600 ME 001 P2

PROJECT No.	AREA	DEPT.	DWG. No.	REV.
15006	600	ME	001	P2

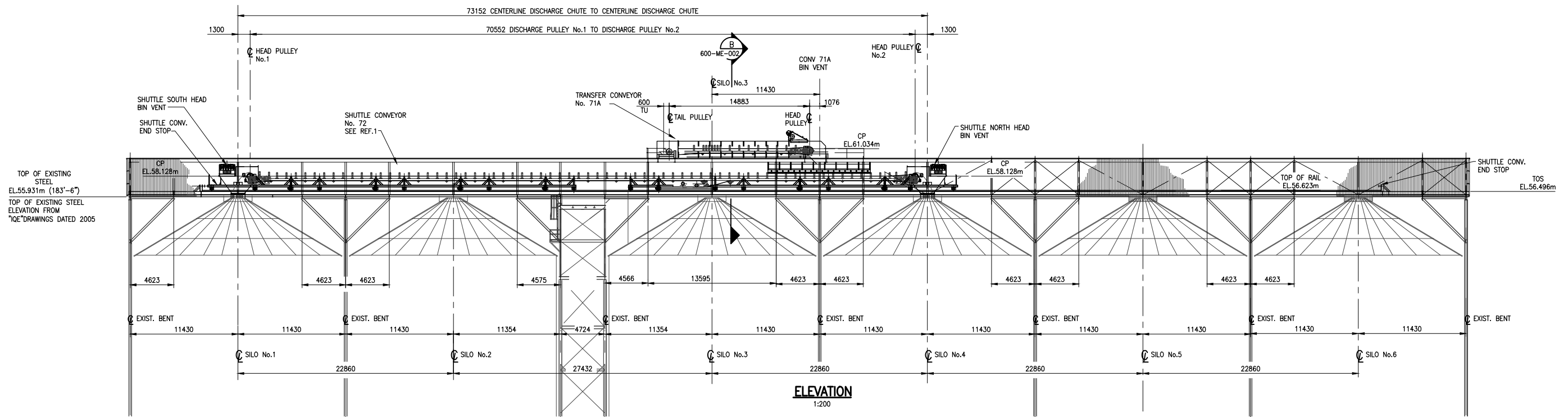
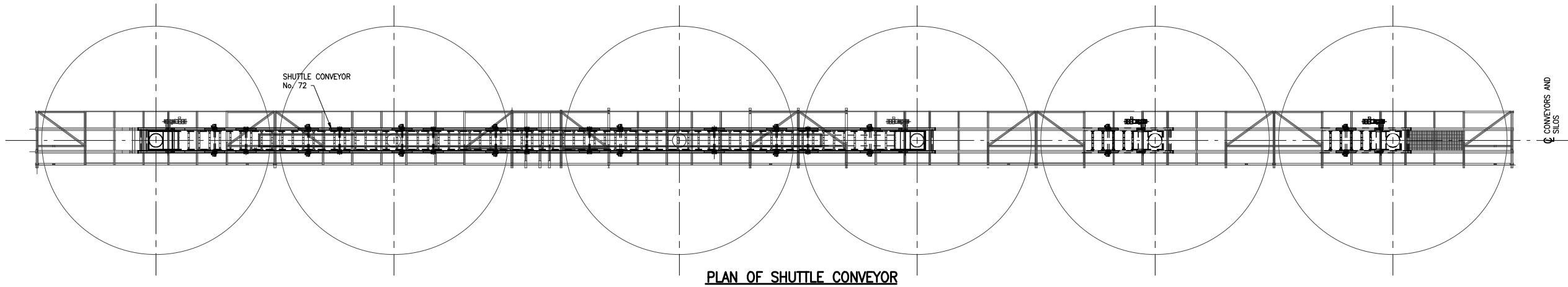
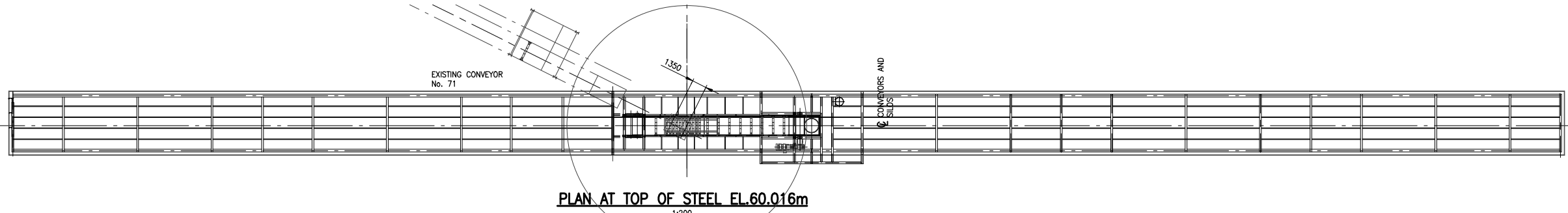


SECTION A
SCALE- 1:25
600-ME-001



SECTION B
SCALE- 1:25
600-ME-003

		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>							<p>www.cwaengineers.com</p>		<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p>		
									<p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>		<p>PELLET SYSTEM AREA SHUTTLE CONVEYOR 72 TYPICAL SECTION</p>		
5													
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3													
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1													
REF.	DWG. NUMBER	DESCRIPTION	CLIENT PROJECT No:	CWA ACAD FILE: 15006-600-ME-001-002-003.DWG	ISSUES / REVISIONS	* HAND INITIALS ON FILE	DRAWN BY: RLH	SCALE: NOTED	PROJECT No.	AREA	DEPT.	DWG. No.	REV.
									15006	600	ME	002	P2



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REF.	DWG. NUMBER	DESCRIPTION



FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	-
P1	2015-10-21	ISSUED FOR CLIENT REVIEW	JHY	-	-	-	-	-
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	



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FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
PELLET SYSTEM AREA CONVEYOR 72 G.A. ENCLOSED GALLERY				
15006	600	ME	003	P2
PROJECT No.	AREA	DEPT.	DWG. No.	REV.

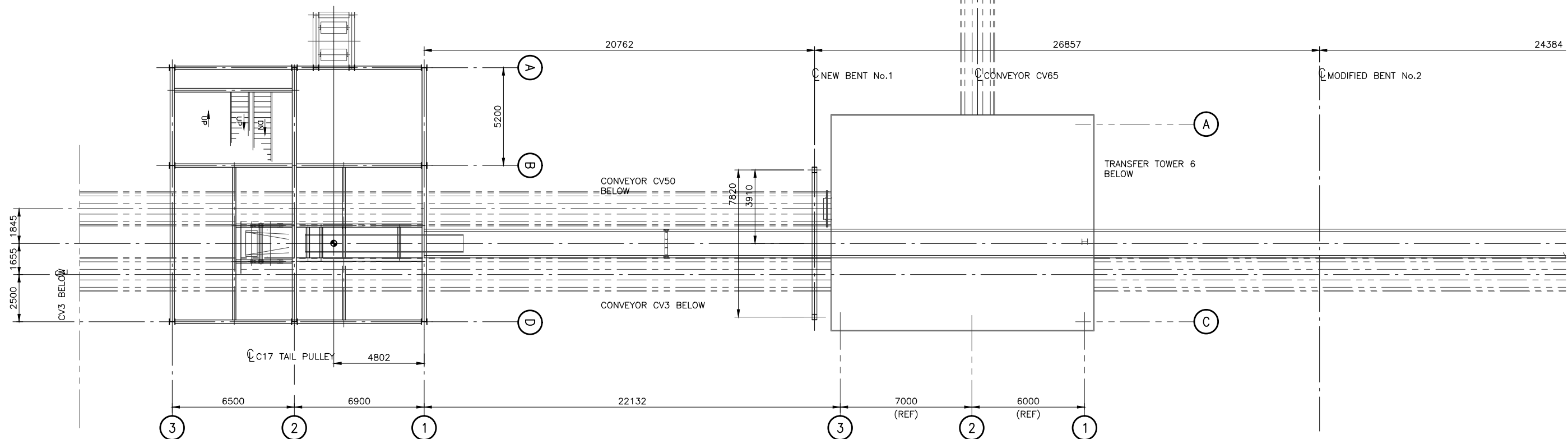
REFERENCE DRAWINGS / DESIGN STANDARDS

CLIENT PROJECT No: CWA ACAD FILE: 15006-600-ME-001-002-003.DWG

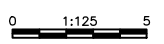
ISSUES / REVISIONS

* HAND INITIALS ON FILE

DRAWN BY: RLH SCALE: 1:200

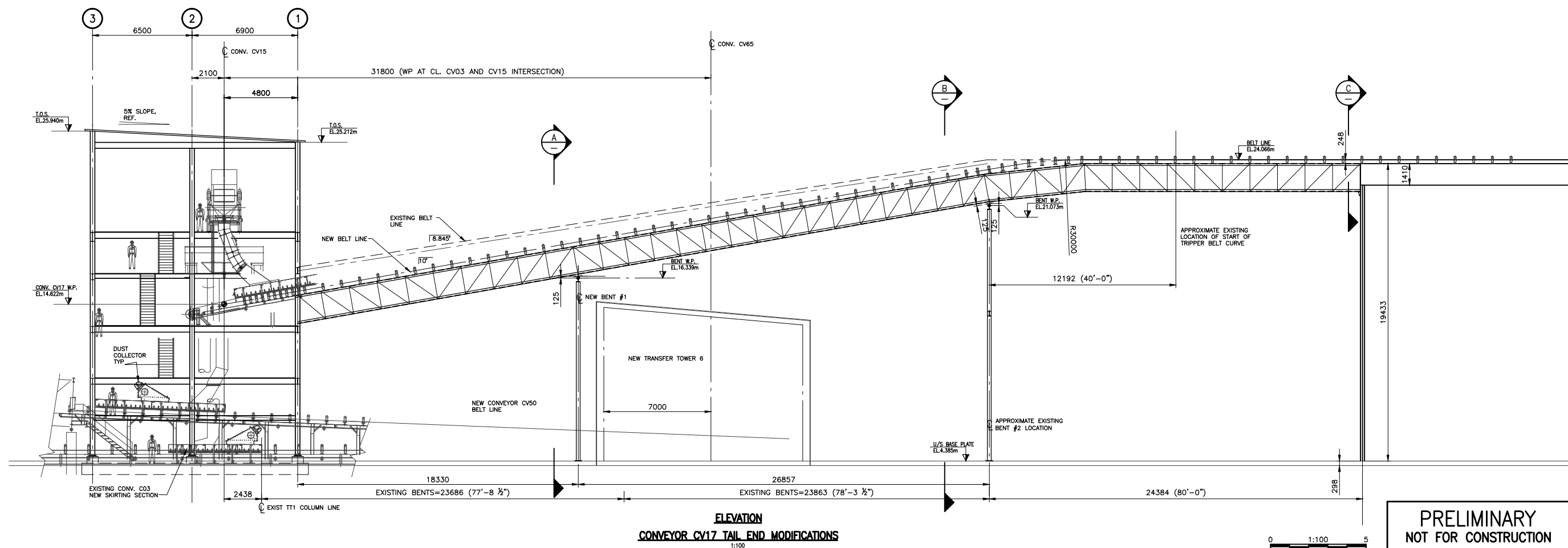


PLAN
1:125

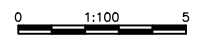


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		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>						<p>www.cwaengineers.com</p> <p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>	<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p> <p>PELLET SYSTEM AREA CONVEYOR 17 GENERAL ARRANGEMENT</p>									
REF.	DWG. NUMBER		DESCRIPTION	No.	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY		HSN	BTR	HSN	-	15006	600	ME	020	P1	
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:	CWA ACAD FILE: 15006-600-ME-020-021.DWG		ISSUES / REVISIONS					* HAND INITIALS ON FILE		DRAWN BY: RLH	SCALE: NOTED	PROJECT No.	AREA	DEPT.	DWG. No.	REV.



ELEVATION
CONVEYOR CV17 TAIL END MODIFICATIONS
 1:100



PRELIMINARY
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REF.	DWG. NUMBER	DESCRIPTION

FIBRECO

FIBRECO EXPORT INC.
 1209 McKeen Ave.
 North Vancouver, B.C.
 V7P 3H9
 TEL: (604) 980-6543
 FAX: (604) 984-2593

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P1	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-

CWA
 www.cwaengineers.com

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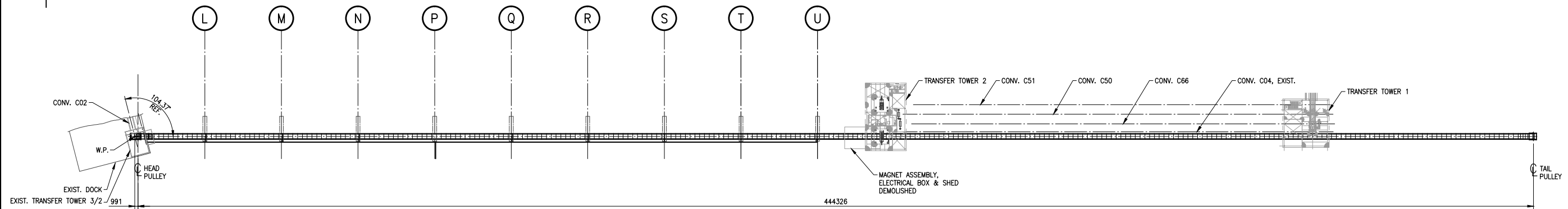
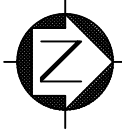
FIBRECO EXPORT INC.
 NORTH VANCOUVER, B.C.
FIBRECO TERMINAL ENHANCEMENT PROJECT

PELLET SYSTEM AREA
CONVEYOR 17
ELEVATION

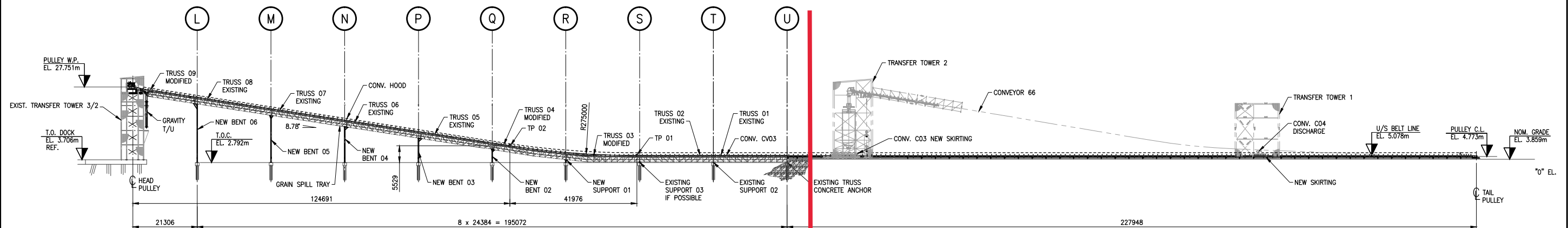
15006 600 ME 021 P1

PROJECT No. AREA DEPT. DWG. No. REV.

**These Pages are for both the District of North Vancouver and the
Vancouver Fraser Port Authority Permit Review Process**



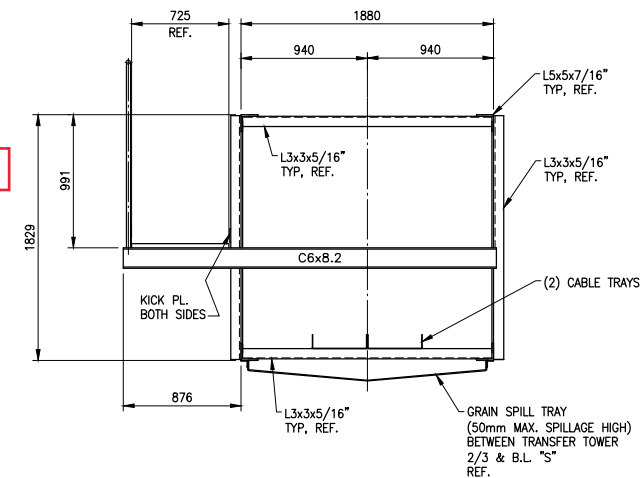
PLAN
1:600



ELEVATION
1:600

VFPA Jurisdiction

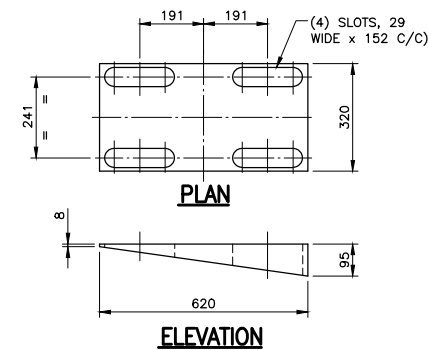
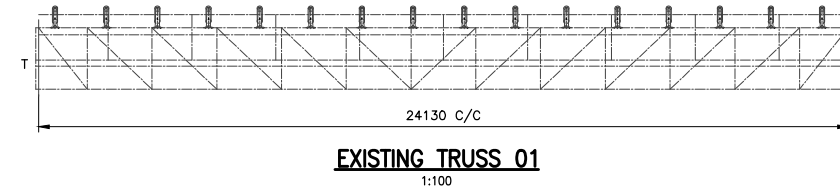
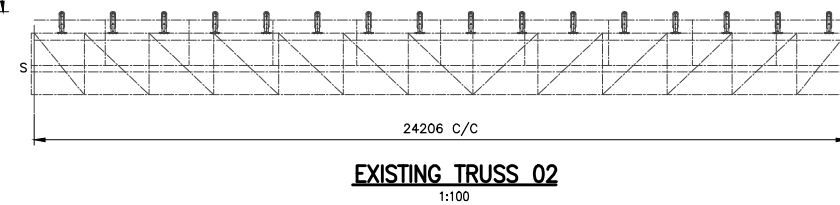
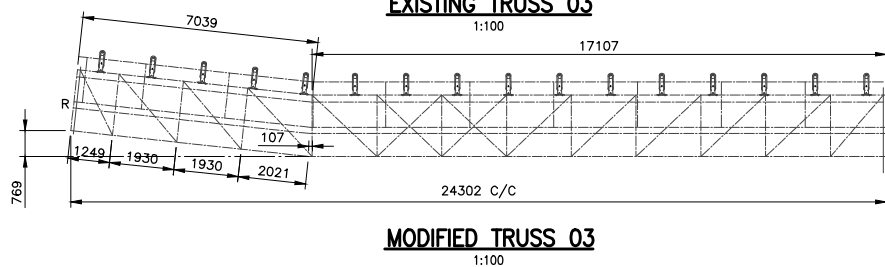
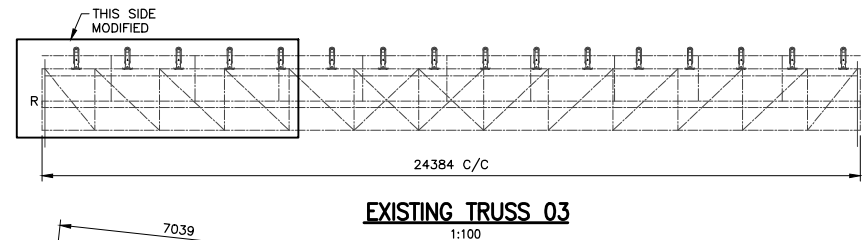
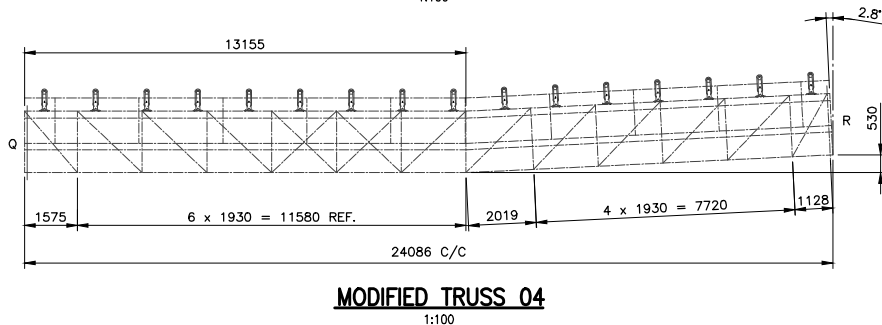
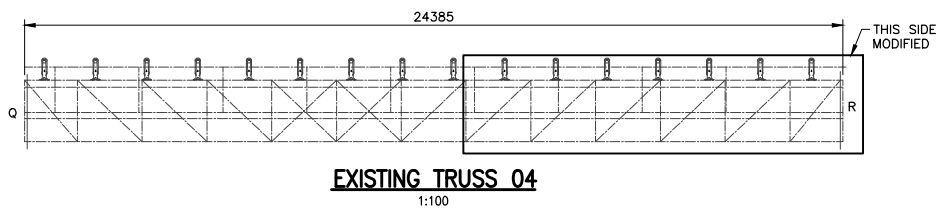
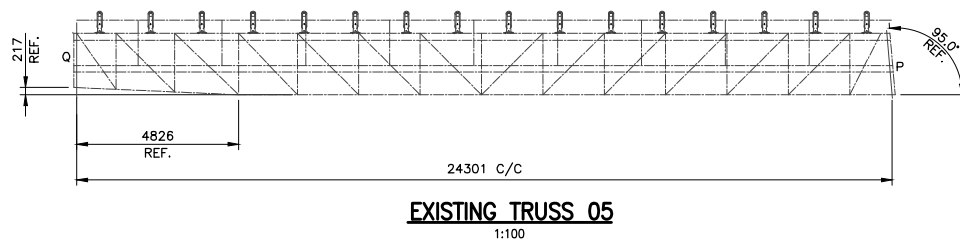
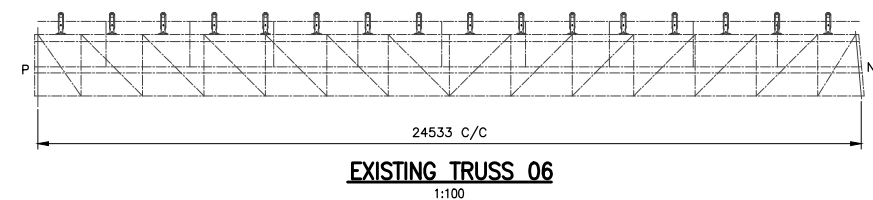
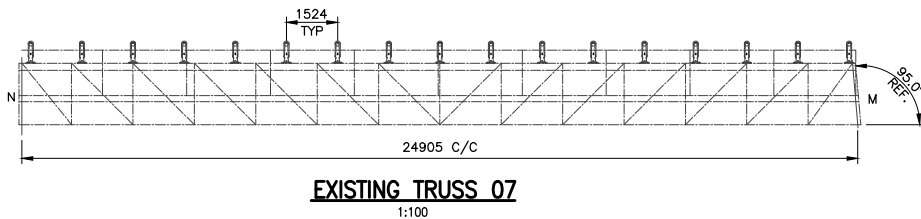
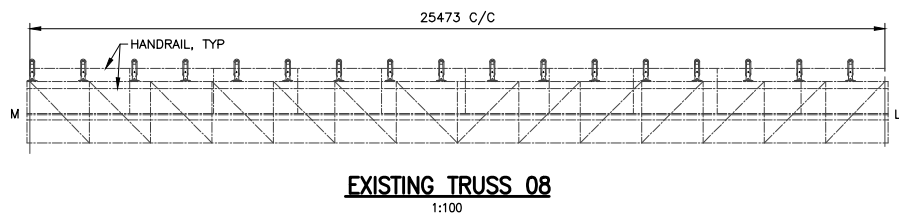
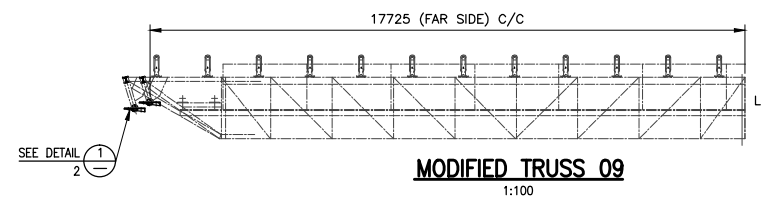
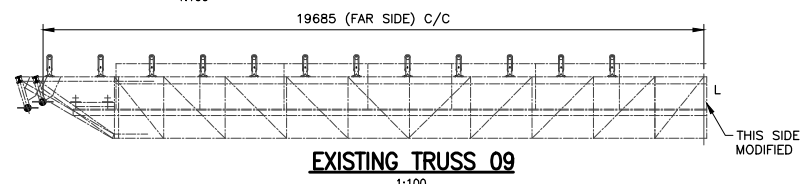
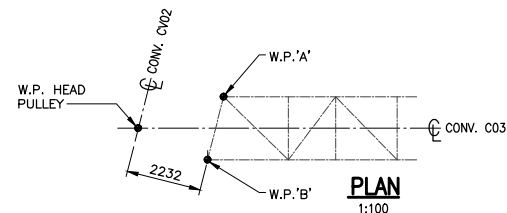
DNV Jurisdiction



TYPICAL TRUSS SECTION
SCALE : 1:25

**PRELIMINARY
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		FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593							 www.cwaengineers.com		FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT						
									This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.		OUTBOND AREA CONVEYOR C03 ARRANGEMENT W/ EXIST. TRUSSES						
REF.	DWG. NUMBER	DESCRIPTION	CLIENT PROJECT No:	CWA ACAD FILE: 15006-400-ME-030.DWG	No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	15006	400	ME	030	P2
REFERENCE DRAWINGS / DESIGN STANDARDS				CLIENT PROJECT No:				ISSUES / REVISIONS				PROJECT No. AREA DEPT. DWG. No. REV.					



DETAIL 1
SCALE 1:10
2 REQ'D

**PRELIMINARY
NOT FOR CONSTRUCTION**

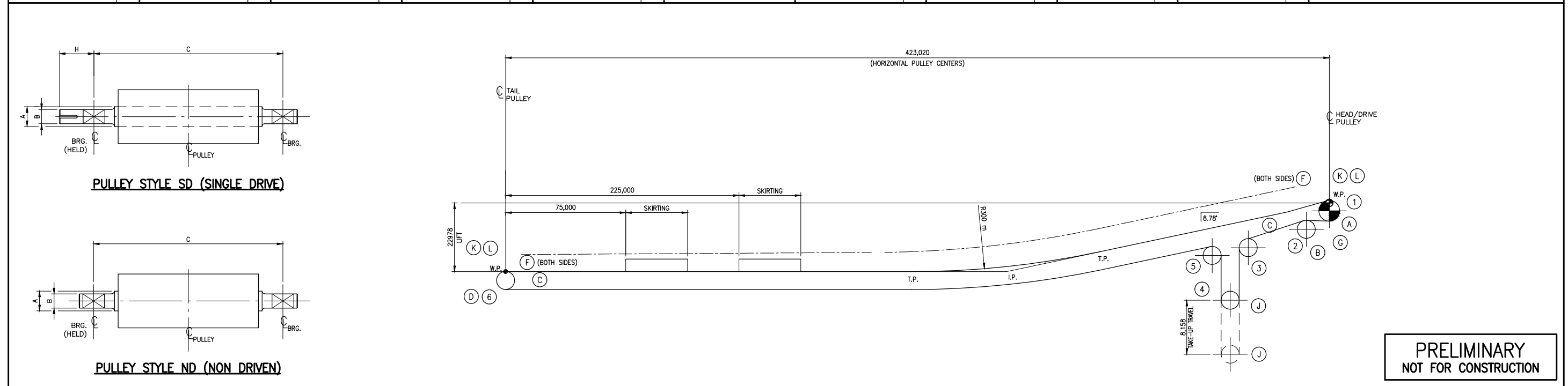
		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>				<p>www.cwaengineers.com</p>		<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p>										
						<p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>		<p>OUTBOND AREA CONVEYOR CV03 TRUSSES DETAIL</p>										
REF.	DWG. NUMBER	DESCRIPTION	CLIENT PROJECT No:	CWA ACAD FILE: 15006-400-ME-031.DWG	No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	15006	400	ME	031	P2	
REFERENCE DRAWINGS / DESIGN STANDARDS					ISSUES / REVISIONS			* HAND INITIALS ON FILE			DRAWN BY: RLH		SCALE: NOTED		PROJECT No.		AREA	

GENERAL		BELT		TAKE-UP		IDLERS					REDUCERS		MOTORS		ACCESSORIES														
CONVEYOR NUMBER	C03	WIDTH	1524 mm (60")	TYPE	GRAVITY	MANUFACTURER					MANUFACTURER	SHAFT MOUNTED RIGHT ANGLE	MANUFACTURER	POWER (INSTALLED)	1x298 kW (400 HP)	ITEM	LOCATION	QTY.	MANUFACTURER										
DRIVE NUMBER	-	MANUFACTURER		TRAVEL DISTANCE	5.15 m						TYPE		TYPE	TEFC	PRIMARY SCRAPER	A	1												
CONVEYED FROM	C4 OR C66 OR C15 OR BULK WEIGHER	TYPE		COUNTERWEIGHT	-	TRANSITION IDLER					ROLL DIA.	152 mm	ANGLE	20-45	CEMA RATING	D6	SPACING	-	QTY.	4	MODEL No.		TYPE	TEFC	SECONDARY SCRAPER	B	1		
CONVEYING TO	C2	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	IMPACT IDLER (RETRACTABLE)					ROLL DIA.	152 mm	ANGLE	45	CEMA RATING	D6	SPACING	0.3 M	15	RATIO	21.67	RPM	1800	RETURN BELT PLOW	C	2			
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	TROUGH CARRYING					ROLL DIA.	152 mm	ANGLE	45	CEMA RATING	D6	SPACING	0.75m-1.00m	288	MECH SERVICE FACTOR	1.4	VOLTAGE	460/3/60	ZERO SPEED SWITCH	D	1			
MATERIAL	GRAINS OR WOOD PELLETS	ELASTIC MODULUS		TOTAL WEIGHT REQ'D	7350 kg	TROUGH CARRYING					ROLL DIA.	152 mm	ANGLE	35	CEMA RATING	D6	SPACING	1.2 m	126	THERMAL SERVICE FACTOR	1.0	FRAME SIZE		PULL CORD SWITCH	E	3			
DESIGN CAPACITY	2000 MTPH	TOP COVER THICKNESS	6.35 mm	BELT LENGTH		CARRYING TRAINING IDLER					ROLL DIA.	152 mm	ANGLE	45	CEMA RATING	D6	SPACING	1.2 m	8	OUTPUT RPM	83.06	SERVICE FACTOR	1.15	MISALIGNMENT SWITCH	F	4			
CEMA LOADING (MAX)	90.0%	BOTTOM COVER THICKNESS	3.175 mm			FLAT RETURN IDLER					ROLL DIA.	152 mm	ANGLE	0	CEMA RATING	D6	SPACING	3.0 m	147	INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	HIGH LEVEL SWITCH (PLUGGED CHUTE)	G	1			
MATERIAL DEPTH ON BELT	302 mm	BELT THICKNESS (APPROX.)				RETURN TRAINING IDLER					ROLL DIA.	152 mm	ANGLE	0	CEMA RATING	D6	SPACING	3.0 m	8	BRAKE Ø HSS	N/A	CONV START TIME	30 S	TAKE-UP OVER TRAVEL LIMIT SWITCH	J	2			
BULK DENSITY	720 - 769 kg/m ³	WEIGHT/UNIT LENGTH (±)	29.5 kg/m			CARRYING IDLER (RETRACTABLE)					ROLL DIA.	152 mm	ANGLE	45	CEMA RATING	D6	SPACING	0.5 M	-	COOLING TYPE	FAN			START-UP HORN	K	2			
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED																										
SURCHARGE ANGLE	5-15 DEG	PERMANENT ELONGATION	0.8 %																										
BELT SPEED (T RUN)	3.8 m/s (747 FPM)																												
POWER REQ'D (T RUN)	257 kW (347 HP)																												
DRIVE ARRANGEMENT	SINGLE DRIVE ON HEAD PULLEY																												
DESIGN TEMPERATURE	-10°C TO +35°C																												

PULLEYS										SHAFTS				BEARINGS				DESIGN LOADS						
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (ø)	B (ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE
1	HEAD/DRIVE	SD	1	762 (30")	1680	DRUM	NO	YES/13/RUBBER	SBR 60±5	SAE4140	240	180	2390	-	-	-	TAC	2		219	51	108	41	200
2	SNUB	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2		62	62	41	41	20
3	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2		62	24	41	41	81
4	TAKE-UP	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2		62	62	41	41	180
5	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2		62	62	41	41	180
6	LT TAIL	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2		62	62	41	41	99

GENERAL NOTES

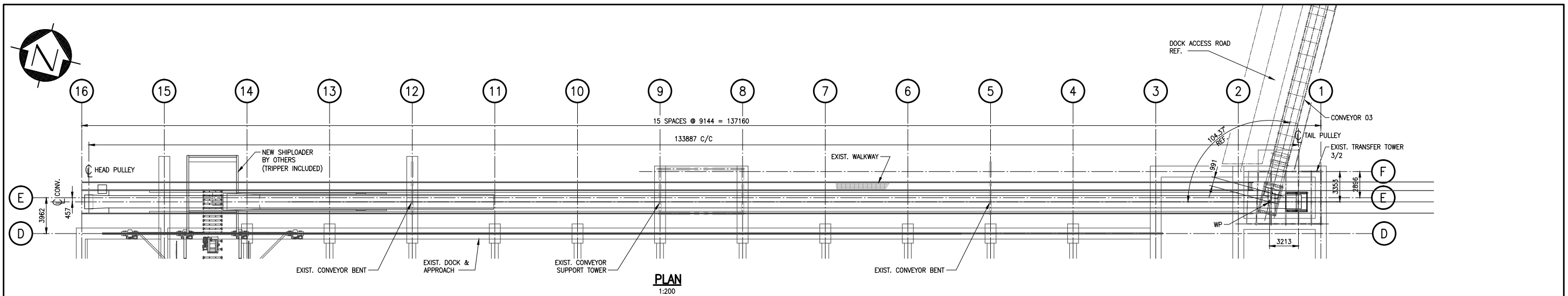
- 1) READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- 2) DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
 $T_{MAX IN} = 2.5x T_{e1} + 1.25x T_u$
 $T_{MAX OUT} = 1.25x T_u$
HIGH TENSION PULLEYS:
 $T_{MAX IN} = T_{MAX OUT} = 2.5x T_{e1} + 1.25x T_u$
LOW TENSION PULLEYS:
 $T_{MAX IN} = T_{MAX OUT} = 1.5x (T_u, T_{RUN})$
- 3) PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 80,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS



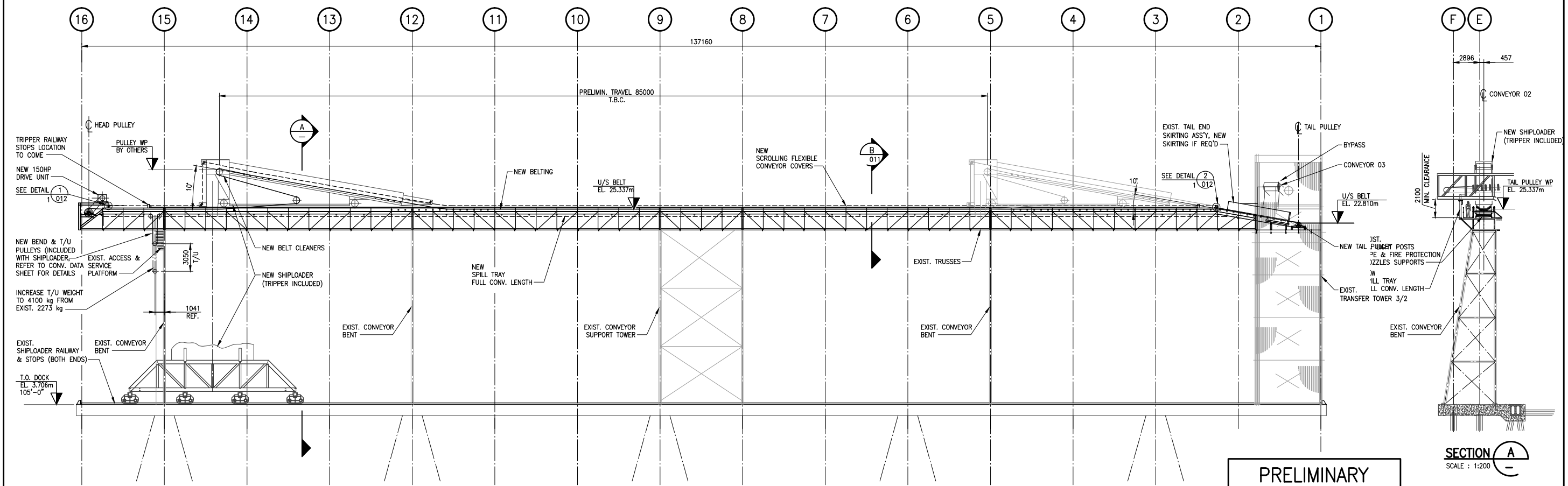
**PRELIMINARY
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FIBRECO FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-8543 FAX: (604) 984-2583		CWA www.cwaengineers.com This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.		FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. TERMINAL ENHANCEMENT PROJECT OUTBOUND AREA CONVEYOR 03 DATA SHEET	
1	15006-400-ME-030	CONVEYOR 03 - GENERAL ARRANGEMENT			
REF.	DWG. NUMBER	DESCRIPTION			
REFERENCE DRAWINGS / DESIGN STANDARDS			CLIENT PROJECT No:	CWA ACAD FILE: 15006-400-DS-010_P1.DWG	ISSUES / REVISIONS
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR
P1	2015-10-30	ISSUED FOR CLIENT REVIEW	BTR	-	BTR
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN
			DESIGN CHECK	APPROVED	
DRAWN BY: LGJ			SCALE: NTS	PROJECT No.	15006
			AREA	400	DS
			DEPT.	010	P2
			DWG. No.		
			REV.		

**These Pages are for the
Vancouver Fraser Port Authority Permit Review Process**



PLAN
1:200



ELEVATION
1:200

PRELIMINARY
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SECTION A
SCALE: 1:200

REF.	DWG. NUMBER	DESCRIPTION



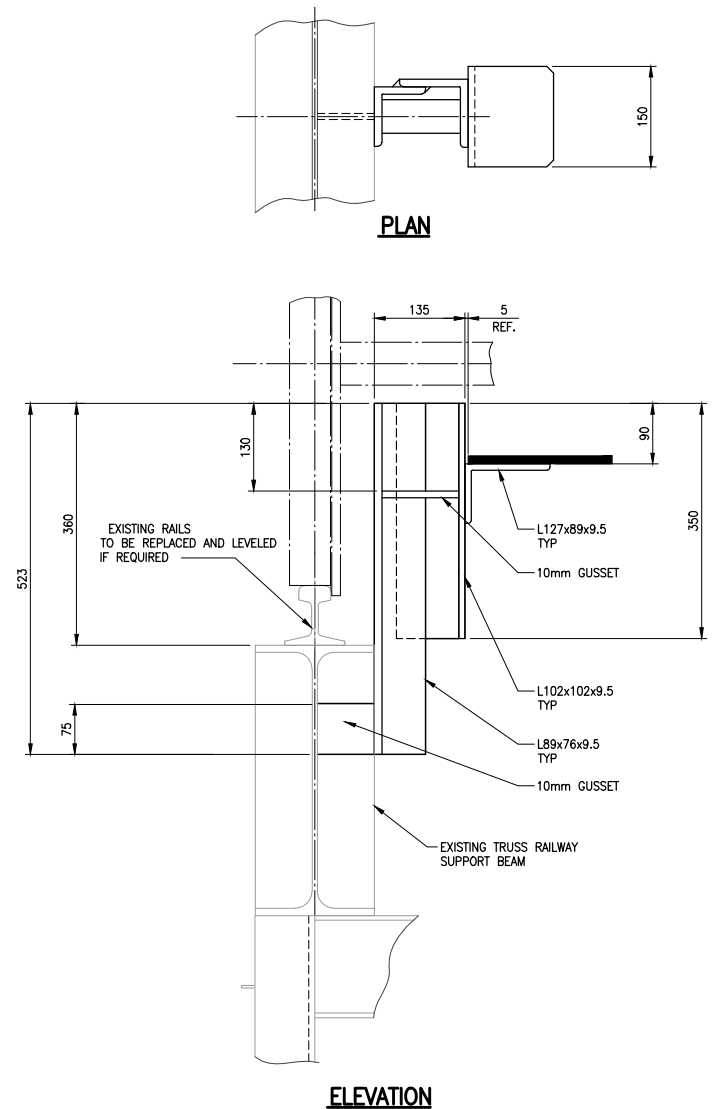
FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P1	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-

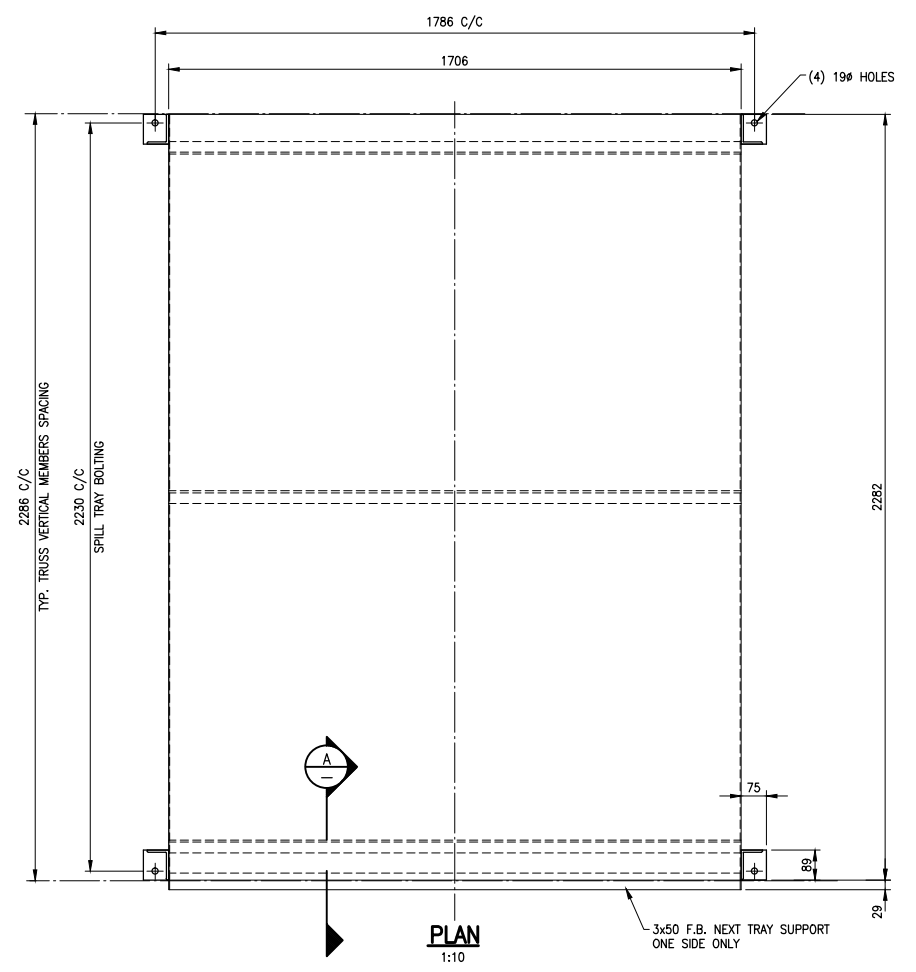


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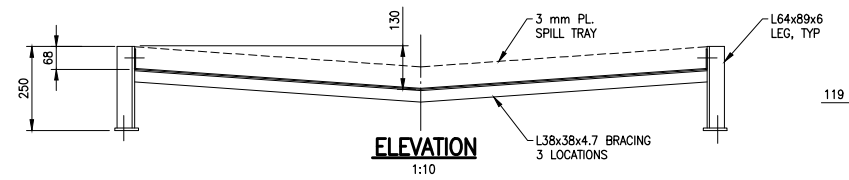
FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
SHIPLOADING AREA TRIPPER CONVEYOR 02 GENERAL ARRANGEMENT				
15006	500	ME	010	P1
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



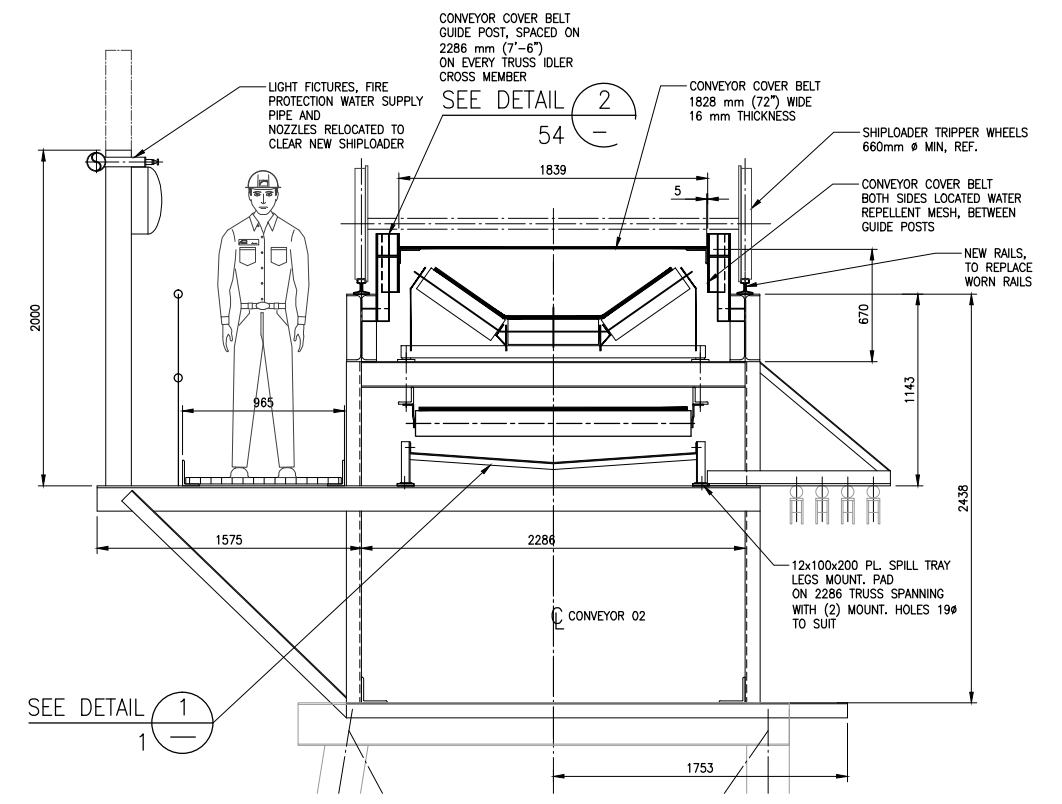
ELEVATION
DETAIL 2
SCALE : 1:5



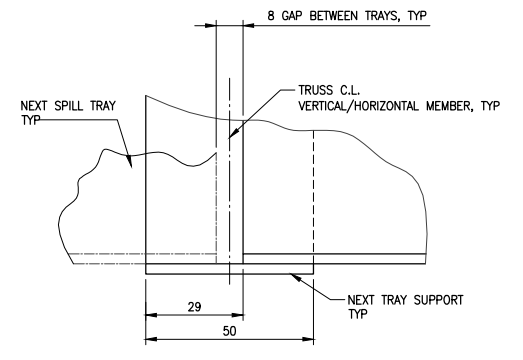
PLAN
1:10



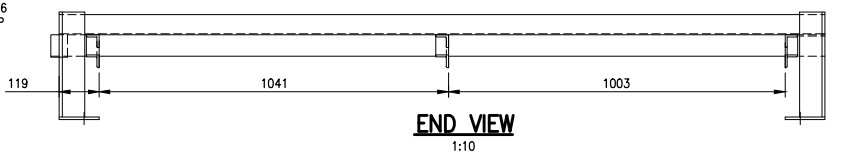
ELEVATION
1:10
DETAIL 1
SCALE : 1:10



SECTION B
SCALE : 1:20
010



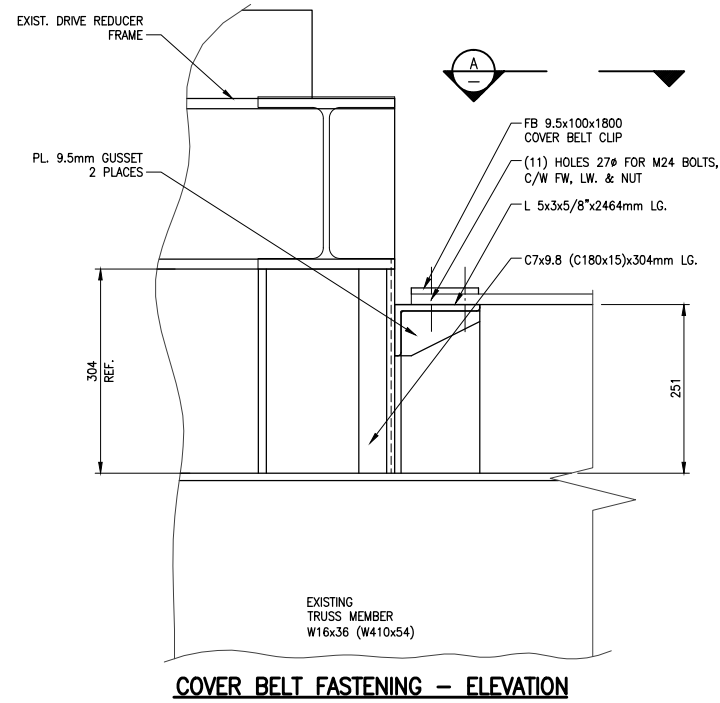
SECTION A
SCALE : 1:10



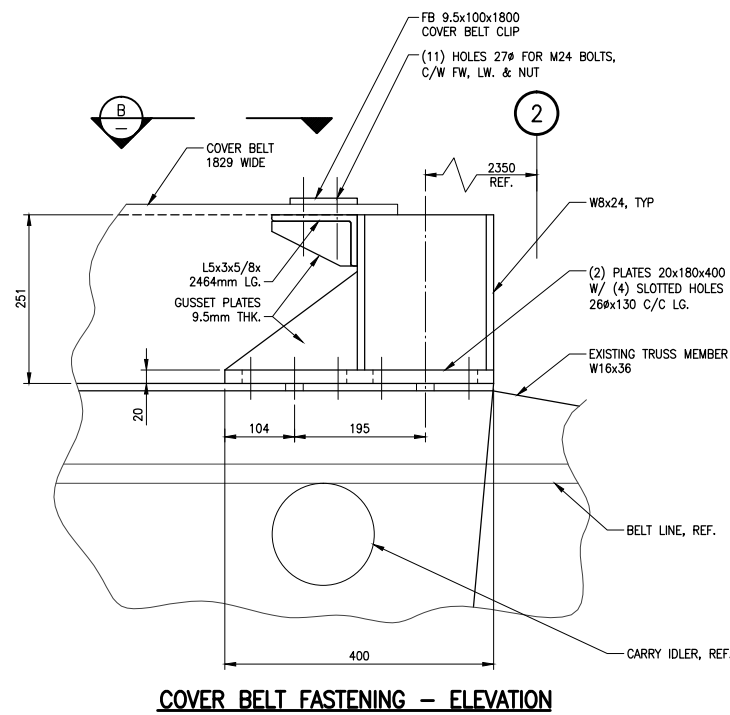
END VIEW
1:10

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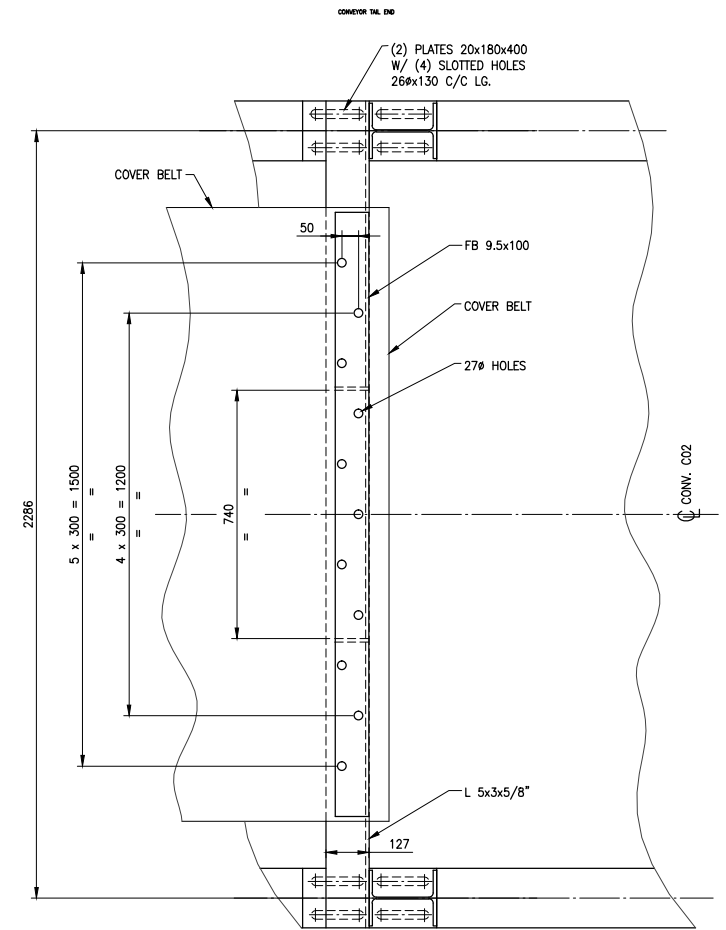
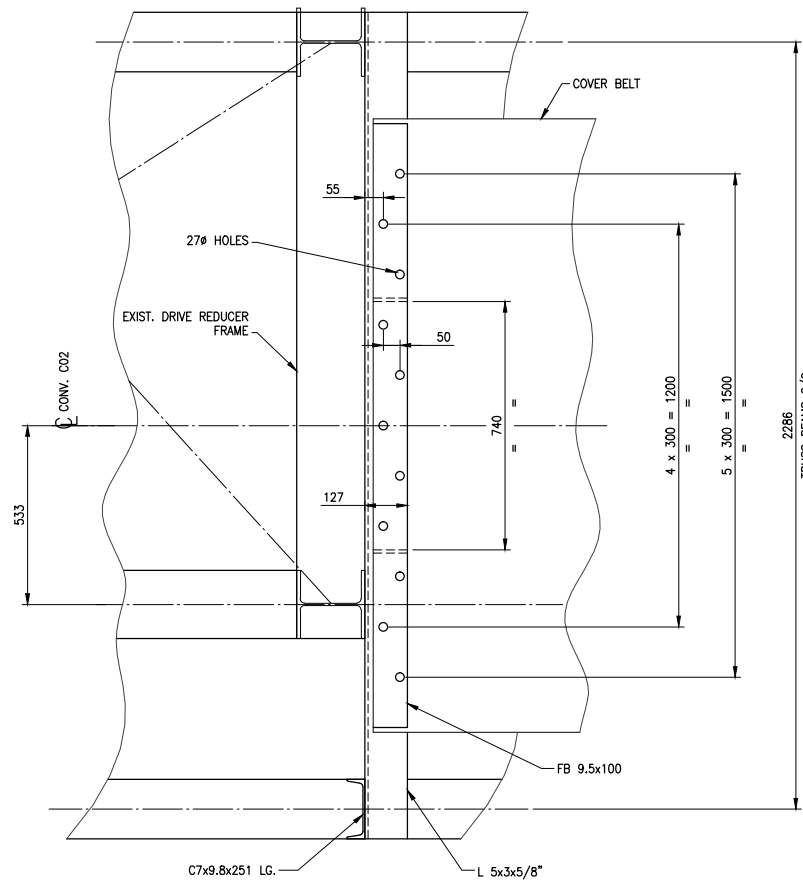
		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>							<p>www.cwaengineers.com</p> <p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>	<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p> <p>SHIPLOADING AREA TRIPPER CONVEYOR 02 CONVEYOR DETAILS, SHEET 1</p>							
REF.	DWG. NUMBER		DESCRIPTION	No.	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN		BTR	HSN	-	15006	500	ME	011	P1
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:	CWA ACAD FILE: 15006-500-ME-010-011-012.DWG		ISSUES / REVISIONS			* HAND INITIALS ON FILE			DRAWN BY: RLH	SCALE: NOTED	PROJECT No.	AREA	DEPT.	DWG. No.	REV.



DETAIL 1
SCALE 1:5
CONVEYOR HEAD END

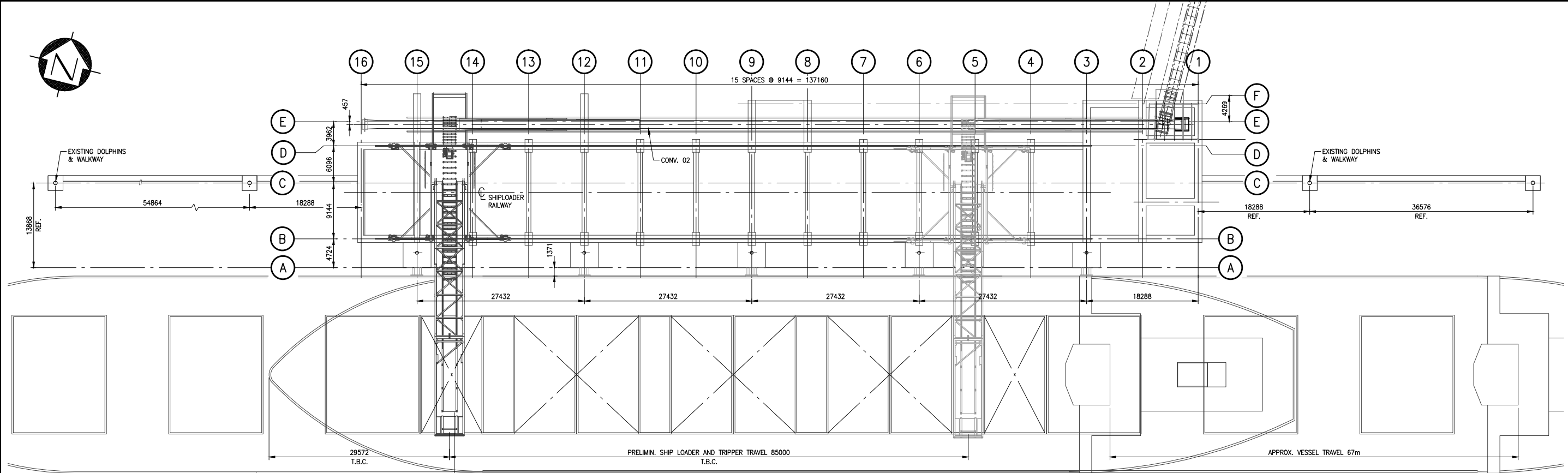


DETAIL 2
SCALE 1:5
CONVEYOR TAIL END

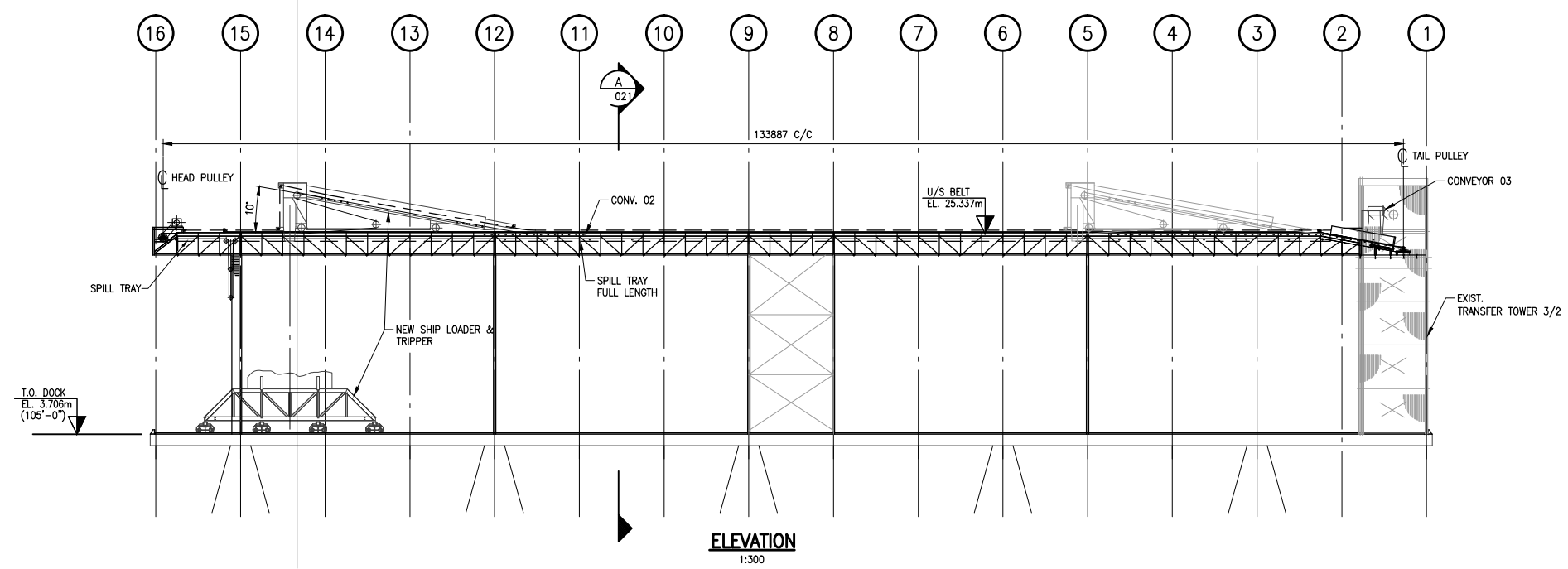


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				<p>SHIPLOADING AREA TRIPPER CONVEYOR 02 CONVEYOR DETAILS, SHEET 2</p>				<p>15006 500 ME 012 P1</p>						
REF.	DWG. NUMBER	DESCRIPTION	CLIENT PROJECT No:	CWA ACAD FILE: 15006-500-ME-010-011-012.DWG	No.	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-	-	
							DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED		
							ISSUES / REVISIONS				* HAND INITIALS ON FILE			
								DRAWN BY: RLH	SCALE: NOTED	PROJECT No.	AREA	DEPT.	DWG. No.	REV.



PLAN
1:300



ELEVATION
1:300

**PRELIMINARY
NOT FOR CONSTRUCTION**

REF.	DWG. NUMBER	DESCRIPTION

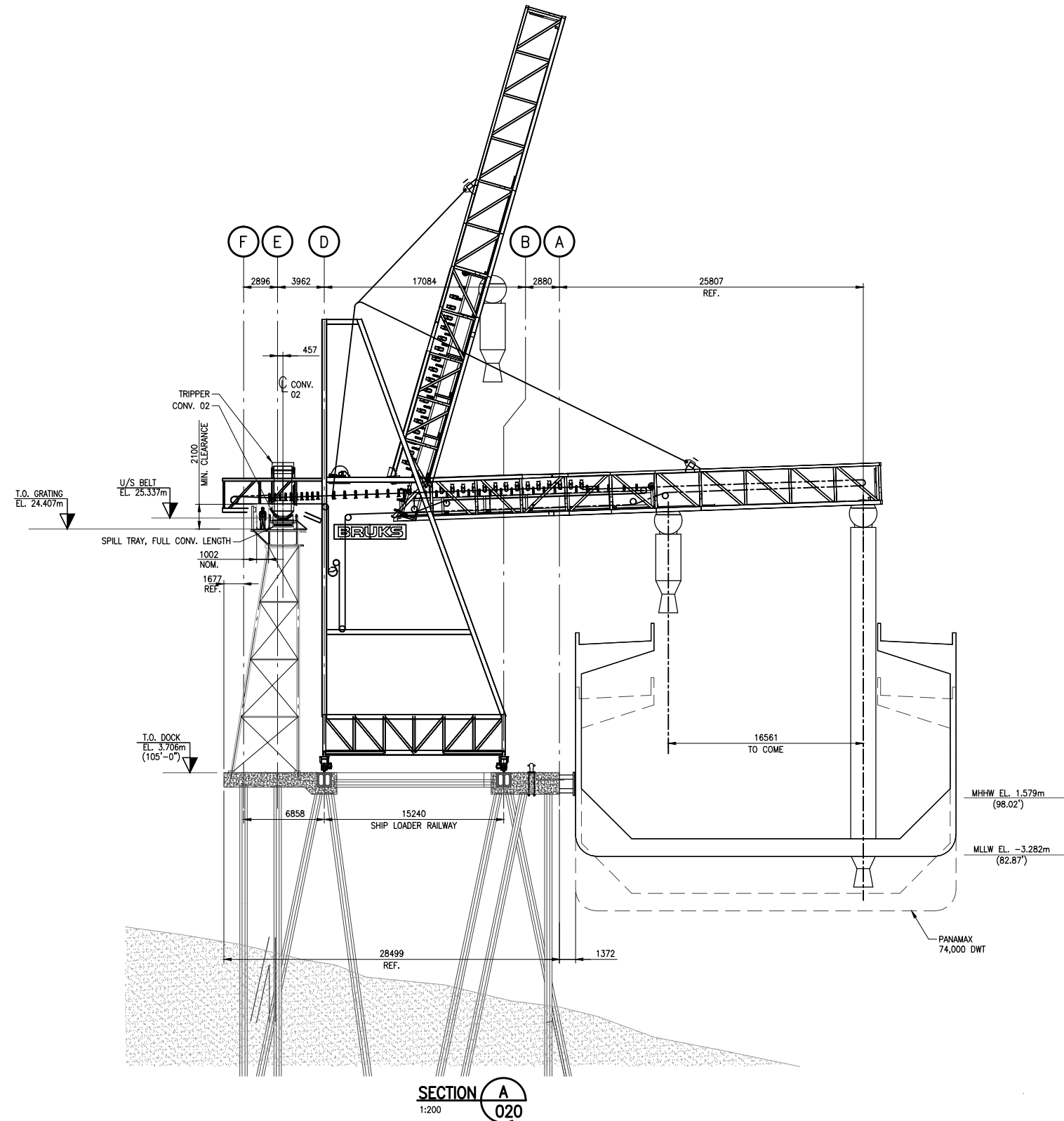
FIBRECO
FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P2	2015-12-18	ISSUED FOR CLIENT REVIEW (NBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
P1	2015-11-12	ISSUED FOR PRELIMINARY PERMIT APPLICATION	JHY	-	-	-	-
No.	YYYY-MM-DD	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED



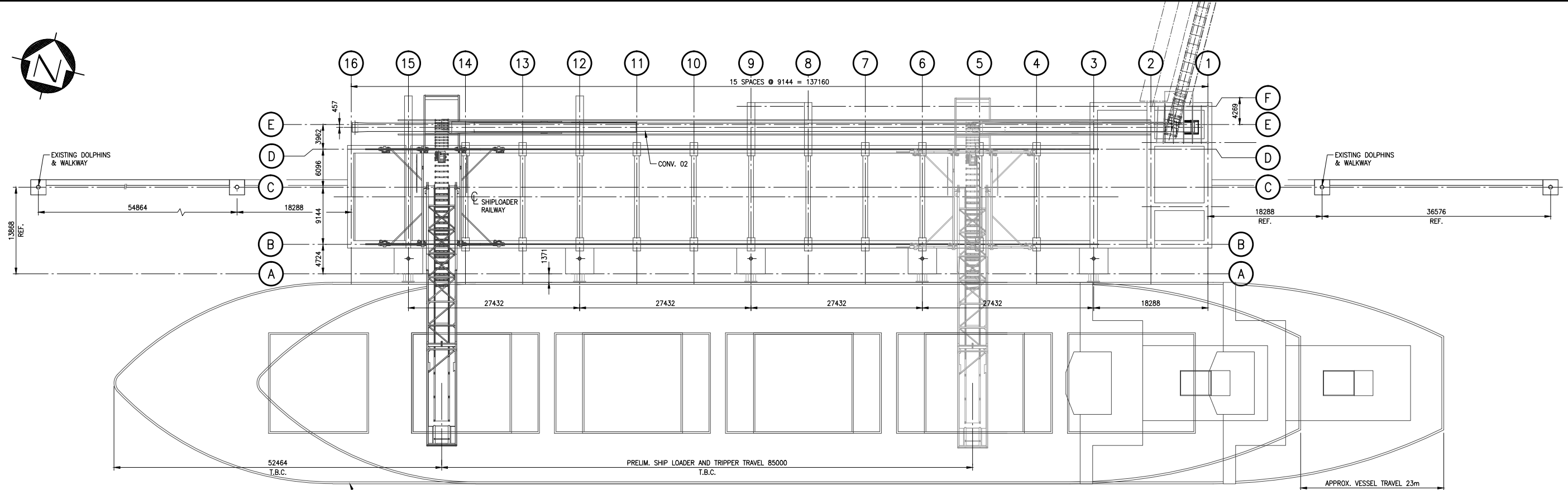
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FIBRECO EXPORT INC.				
NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
SHIPLOADING AREA SHIPLOADING SYSTEM GA - PANAMAX 74,000 DWT				
15006	500	ME	020	P2
PROJECT No.	AREA	DEPT.	DWG. No.	REV.

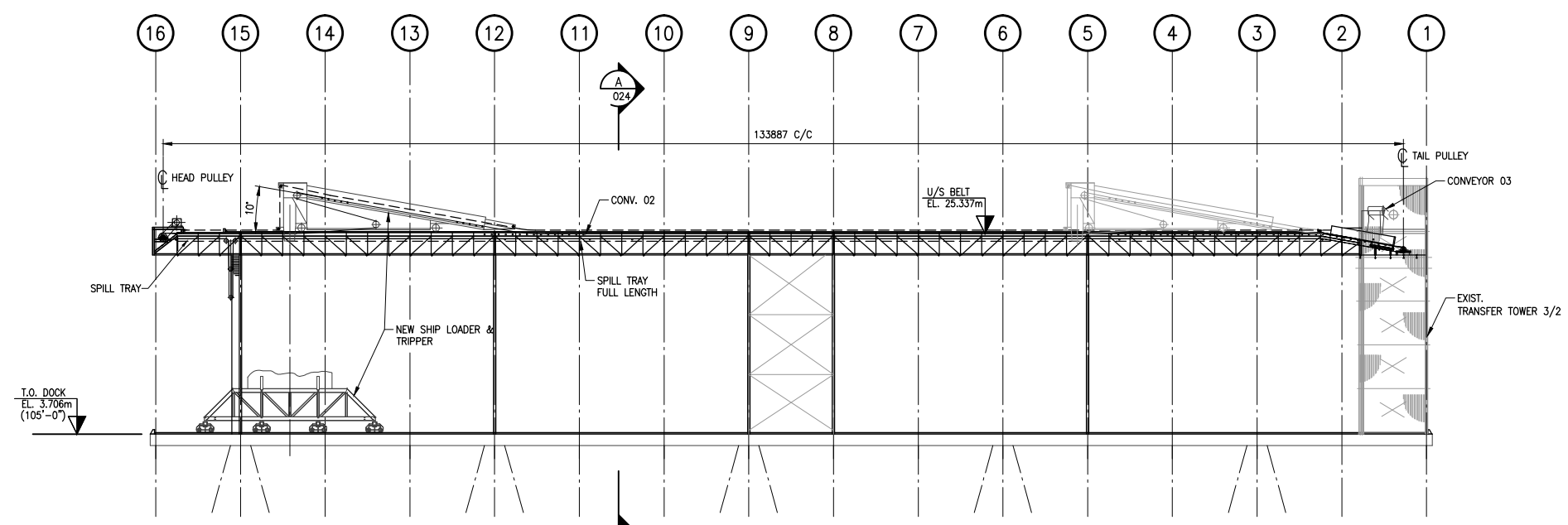


**PRELIMINARY
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		<p>FIBRECO EXPORT INC. 1209 McKeen Ave. North Vancouver, B.C. V7P 3H9 TEL: (604) 980-6543 FAX: (604) 984-2593</p>						<p>www.cwaengineers.com</p> <p>This drawing has been prepared by CWA Engineers Inc. as an Instrument of service and is the exclusive property of CWA. This drawing shall be used solely for the purpose of this project. The client agrees that this drawing shall not be used for purposes other than those intended, and shall hold the engineer harmless for any other such use.</p>	<p>FIBRECO EXPORT INC. NORTH VANCOUVER, B.C. FIBRECO TERMINAL ENHANCEMENT PROJECT</p> <p>SHIPLOADING AREA SHIPLOADING SYSTEM SECTION - PANAMAX 74,000 DWT</p>										
REF.	DWG. NUMBER		DESCRIPTION	No.	DATE	DESCRIPTION	DRAWN		DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED	15006	500	ME	021	P2		
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:	CWA ACAD FILE: 15006-500-ME-020-021.DWG		ISSUES / REVISIONS					* HAND INITIALS ON FILE		DRAWN BY: RLH	SCALE: NOTED		PROJECT No.	AREA	DEPT.	DWG. No.	REV.



PLAN
1:200



ELEVATION
1:200

**PRELIMINARY
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REF.	DWG. NUMBER	DESCRIPTION



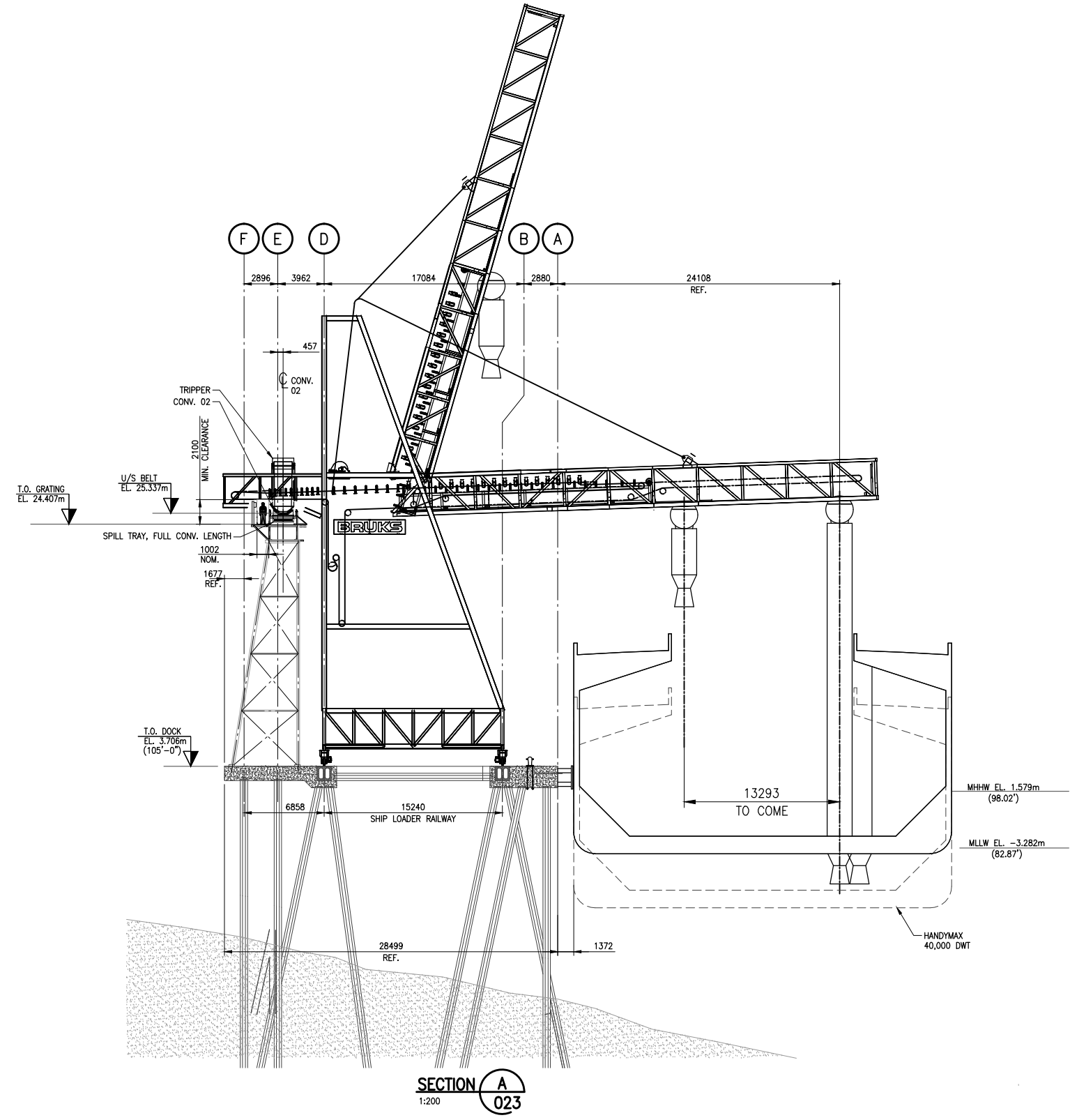
FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P1	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-
No.	YYYY-MM-DD	DESCRIPTION					



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FIBRECO EXPORT INC. NORTH VANCOUVER, B.C.				
FIBRECO TERMINAL ENHANCEMENT PROJECT				
SHIPLOADING AREA SHIPLOADING SYSTEM GA - HANDYMAX 40,000 DWT				
15006	500	ME	023	P1
PROJECT No.	AREA	DEPT.	DWG. No.	REV.



SECTION A
1:200
023

PRELIMINARY
NOT FOR CONSTRUCTION

REF.	DWG. NUMBER	DESCRIPTION

FIBRECO
FIBRECO EXPORT INC.
1209 McKeen Ave.
North Vancouver, B.C.
V7P 3H9
TEL: (604) 980-6543
FAX: (604) 984-2593

No.	DATE	DESCRIPTION	DRAWN	DWG. CHECK	DESIGN	DESIGN CHECK	APPROVED
P1	2015-12-18	ISSUED FOR CLIENT REVIEW (INBOUND WEIGHING)	JHY	HSN	BTR	HSN	-



FIBRECO EXPORT INC.
NORTH VANCOUVER, B.C.
FIBRECO TERMINAL ENHANCEMENT PROJECT
SHIPLOADING AREA
SHIPLOADING SYSTEM
SECTION - HANDYMAX 40,000 DWT
15006 500 ME 024 P1
PROJECT No. AREA DEPT. DWG. No. REV.

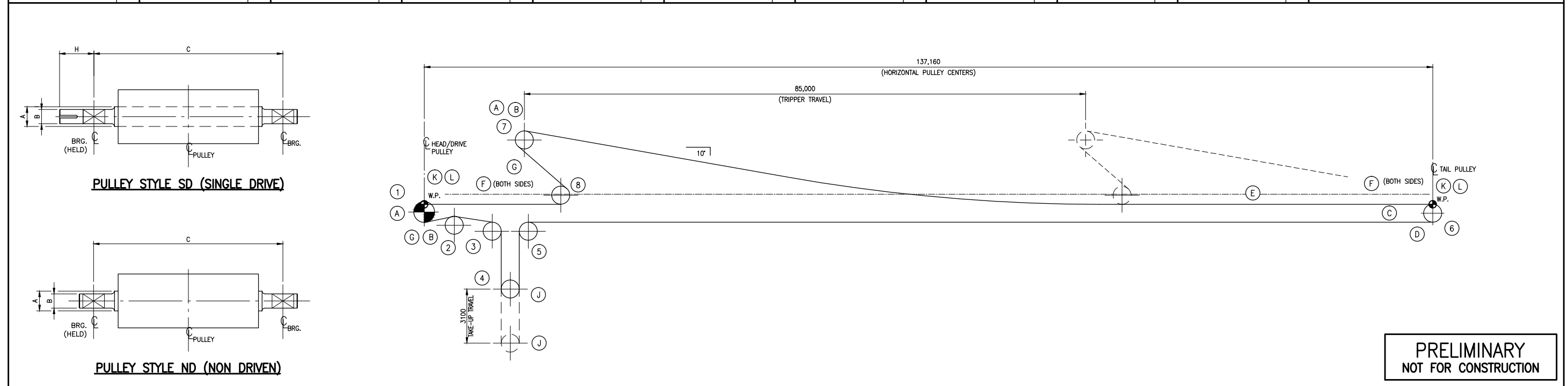
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GENERAL		BELT		TAKE-UP		IDLERS					REDUCERS		MOTORS		ACCESSORIES			
CONVEYOR NUMBER	C2	WIDTH	1524 mm (60")	TYPE	GRAVITY	MANUFACTURER					MANUFACTURER	MANUFACTURER	ITEM	LOCATION	QTY.	MANUFACTURER		
DRIVE NUMBER	-	MANUFACTURER		TRAVEL DISTANCE	3.08 m	ROLL DIA.	ANGLE	CEMA RATING	SPACING	QTY.	TYPE	SHAFT MOUNTED RIGHT ANGLE	POWER (INSTALLED)	1x111 kW (150 HP)	PRIMARY SCRAPER	A	1	
CONVEYED FROM	C3	TYPE		COUNTERWEIGHT	-	TRANSITION IDLER	152 mm	20-45	D6	-	4	MODEL No.		VFD	SECONDARY SCRAPER	B	1	
CONVEYING TO	SHIPLOADER	RATED TENSION	1050 N/mm	PULLEY WEIGHT	-	IMPACT IDLER (RETRACTABLE)	152 mm	35	D6	0.3 M	15	RATIO	25.83	RPM	1800	RETURN BELT PLOW	C	2
HOURS OF OPERATION/DAY	24 / 365	NUMBER OF PLYS	4	FRAME WEIGHT	-	TROUGH CARRYING	152 mm	35	D6	1.2 m	109	MECH SERVICE FACTOR	1.4	VOLTAGE	460/3/60	ZERO SPEED SWITCH	D	1
MATERIAL	GRAINS OR WOOD PELLETS	ELASTIC MODULUS		TOTAL WEIGHT REQ'D	4,354 kg	CARRYING TRAINING IDLER	152 mm	35	D6	1.2 m	3	THERMAL SERVICE FACTOR	1.0	FRAME SIZE		PULL CORD SWITCH	E	3
DESIGN CAPACITY	2000 MTPH	TOP COVER THICKNESS	6.35 mm	BELT LENGTH		FLAT RETURN IDLER	152 mm	0	D6	3.0 m	42	OUTPUT RPM	69.7	SERVICE FACTOR	1.15	MISALIGNMENT SWITCH	F	4
CEMA LOADING (MAX)	82.3%	BOTTOM COVER THICKNESS	3.175 mm			RETURN TRAINING IDLER	152 mm	0	D6	3.0 m	3	INTERNAL BACKSTOP	YES	V.F.D. REQ'D	YES	HIGH LEVEL SWITCH (PLUGGED CHUTE)	G	1
MATERIAL DEPTH ON BELT	302 mm	BELT THICKNESS (APPROX.)				CARRYING IDLER (RETRACTABLE)	152 mm	35	D6	0.5 M	-	BRAKE Ø HSS	N/A	CONV START TIME	30 S	TAKE-UP OVER TRAVEL LIMIT SWITCH	J	2
BULK DENSITY	720 - 769 kg/m ³	WEIGHT/UNIT LENGTH (±)	29.5 kg/m									COOLING TYPE	FAN	START-UP HORN	K	2		
LUMP SIZE (MAX)	75 mm	COVER MATERIAL	ARPM II, CSA-C FIRE RATED											START-UP STROBE	L	2		
SURCHARGE ANGLE	5-15 DEG	PERMANENT ELONGATION	0.8 %															
BELT SPEED (T RUN)	3.4 m/s (669 FPM)											HIGH SPEED COUPLINGS		LOW SPEED COUPLINGS				
POWER REQ'D (T RUN)	100 kW (134 HP)											MANUFACTURER		TBD	MANUFACTURER		TBD	
DRIVE ARRANGEMENT	SINGLE DRIVE ON HEAD PULLEY											TYPE/MODEL No.		FLEXIBLE JAW	TYPE/MODEL No.		RIGID	
DESIGN TEMPERATURE	-10°C TO +35°C											SERVICE FACTOR		1.5	SERVICE FACTOR		1.5	

PULLEYS										SHAFTS				BEARINGS				DESIGN LOADS						
No.	IDENTIFICATION	STYLE	QTY.	DIA.	FACE WIDTH	TYPE	CROWNED	LAGGING/THK./TYPE	MATERIAL	SHAFT MATERIAL	A (ø)	B (ø)	C	H	MFG.	HOUSING TYPE	SEAL	QTY.	BEARING TYPE	T MAX IN (kN)	T MAX OUT (kN)	T RUN IN (kN)	T RUN OUT (kN)	WRAP ANGLE
1	HEAD/DRIVE	SD	1	914 (36")	1680	DRUM	NO	YES/13/RUBBER	SBR 60±5	SAE4140	240	180	2390	-	-	-	TAC	2	-	86	21	43	17	204
2/3	SNUB/LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2	-	21/21	21/21	17/17	17/17	24/90
4	TAKE-UP	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2	-	21	21	17	17	180
5	LT BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2	-	21	21	17	17	90
6	LT TAIL	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2	-	21	21	17	17	180
7	TRIPPER HEAD	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2	-	65	65	43	17	170
8	TRIPPER BEND	ND	1	610 (24")	1680	DRUM	NO	YES/13/RUBBER	SBR 50±5	SAE4140	160	130	2290	-	-	-	TAC	2	-	65	65	43	43	180

GENERAL NOTES

- READ IN CONJUNCTION WITH GENERAL ARRANGEMENT (SEE REF. 1)
- DESIGN LOADS ARE BASED ON THE FOLLOWING:
T RUN OUT OR IN = EXPECTED RUNNING TENSIONS AT 10°C
DRIVE PULLEYS:
 $T_{MAX IN} = 2.5 \times T_{e1} + 1.25 \times T_u$
 $T_{MAX OUT} = 1.25 \times T_u$
HIGH TENSION PULLEYS:
 $T_{MAX IN} = T_{MAX OUT} = 2.5 \times T_{e1} + 1.25 \times T_u$
LOW TENSION PULLEYS:
 $T_{MAX IN} = T_{MAX OUT} = 1.5 \times (T_u, T_{RUN})$
- PULLEYS, SHAFTS AND BEARINGS SHALL BE DESIGNED FOR 80,000 HOURS AT "T RUN" WITH CONSIDERATION OF CAPACITY AND LOW CYCLE FATIGUE AT MAXIMUM TENSIONS



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1	15006-500-ME-010	CONVEYOR 02 - GENERAL ARRANGMENT			
REF.	DWG. NUMBER	DESCRIPTION			
REFERENCE DRAWINGS / DESIGN STANDARDS		CLIENT PROJECT No:	CWA ACAD FILE: 15006-400-DS-011.DWG		ISSUES / REVISIONS
					* HAND INITIALS ON FILE
					DRAWN BY: LGJ SCALE: NTS PROJECT No. AREA DEPT. DWG. No. REV.
					15006 400 DS 011 P2