VOLUME INDEX

FOR THE DIRECT TRANSFER COAL FACILITY ENVIRONMENTAL IMPACT ASSESSMENT

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VOLUME 2: APPENDICES I TO VII

Appendix I: Project Application to Port Metro Vancouver (PMV)
Appendix II: Binding and Suppression Agents
Appendix III: Dust Control and Anti-Idling
Appendix IV: Procedures for Small and Large-Scale Coal Spills
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VOLUME 3: APPENDICES VIII TO IX

Appendix VIII: Draft Air Quality Assessment and Draft Air Quality Management Plan
Appendix IX: Health Effects Associated with Exposure to PM
Appendix X: Metro Vancouver Wildlife List (HectaresBC 2013)
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Engineering Drawings

SNC·LAVALIN

ATTACHMENTS

ENGINEERING DRAWINGS PACKAGE

FSD DTB PMV Project Drawing Package Index

Number	FSD Number	Eng #	Title of Drawing	Description
1	FSD-DTB-181013-01	SK9	DTB Coal Facility	Overview of site and the DTB facility layout along with rail works
2	FSD-DTB-181013-02	SK19A	DTB Coal Facility Rail Works	West Section view of all rail works
3	FSD-DTB-181013-03	SK19B	DTB Coal Facility Rail Works	East Section view of all rail works
4	FSD-DTB-181013-04	SK16	DTB Coal Facility Main Gate Relocation	View of the main gate realignment and rail works with 1:500 inset
5	FSD-DTB-181013-05	SK17	DTB Coal Facility Elevator Road Realignment	View of the Elevator Road realignment and rail works with 1:500 inset
6	FSD-DTB-181013-06	SK18	DTB Coal Facility Bekaert Access Options	View of Bekaert Road realignment (options) and rail works with 1:500 inset
7	FSD-DTB-181013-07	SK08	DTB Coal Facility	Overview of site and the DTB facility layout along with lease boundaries along with railworks
8	FSD-DTB-181013-08	SK20	DTB Coal Facility Rail Car Storage 0-2M mt	General arrangement of the PARY with one unit train
9	FSD-DTB-181013-09	SK21	DTB Coal Facility Rail Car Storage 2-4M mt	General arrangement of the PARY with one unit train
10	FSD-DTB-181013-10	30A	Temporary Coal Barge Loading Facility	General arrangement of the DTB facility with components labeled
11	FSD-DTB-130513-11	30E	Temporary Coal Barge Loading General Arrangement	Overview of the DTB facility with all underground utilities identified
12	FSD-DTB-130513-12	30G	Temporary Coal Barge Loading General Arrangement	Overview of the DTB facility with grading identified
13	FSD-DTB-130513-13	Process Flow Generic	Fraser Surrey Docks DTB Project Process Flow April 2013	Process flow showing the connection of quad conveyors from the receiving pits, out to dual conveyors to hopper assembly, out to single conveyor to barge loader
14	FSD-DTB-130513-14	30B	Temporary Coal Barge Loading Facility Sections	specific segments of the DTB facility showing receiving area, connection of quad conveyors to dual conveyors, connection from hopper assembly to single to barge loader
15	FSD-DTB-130513-15	30C	Temporary Coal Barge Loading Facility Sections	specific segments of the DTB facility showing receiving area and indexer
16	FSD-DTB-130513-16	30D	Temporary Coal Barge Loading Facility Sections	specific segments of the DTB facility showing receiving area, overhead dual conveyor and settling ponds
17	FSD-DTB-130513-17	30F	Temporary Coal Barge Loading Facility Sections	specific segments of the DTB facility showing loader from stockpile and barge warping system
18	FSD-DTB-130513-18	Kreator GA 3/3	Facility Profile with Close up of CC1A, 100 MT Surge Bin and CC3	Details as to how the receiving conveyors (1648-CC3-GA) connect to the hopper assembly (1648-2020-01-HOPPER ASSY) which connect to the single conveyor (1648-CC1A-KMC-0830-60-Sh 01)
19	FSD-DTB-130513-19	CC3 GA	Conveyor CC3 GA	Detail of the dual receiving conveyors that go from each receiving pit to the Hopper Assembly
20	FSD-DTB-130513-20	01-Hopper-Assy	100MT Surge Bin GA	Detail of surge bin where the two outflow conveyors from quad conveyors get consolidated and merge into one conveyor that goes out to the barge loader
21	FSD-DTB-130513-21	0830-60 1/2	Conveyors CC1A and CC1B Configurations	Overview of the single conveyor system that goes out from the Hopper Assembly out to the barge loader
22	FSD-DTB-130513-22	0830-60 2/2	Conveyors CC1A and CC1B Configurations	Detail of the rise conveyor (middle segment) leading from the ground level single conveyor to the overhead level barge conveyor that goes out the barge loader
23	FSD-DTB-130513-23	0836-Chute	Transfer Points Chute Configuration at Transfer Points 3, 4, 5 and 7 as per Process Flow Diagram	Detail of the chute that connects one conveyor to the next conveyor at the end of the quad conveyors, two receiving conveyors and end of the conveyor going out to the barge loader
24	FSD-DTB-130513-24	3060-S13	Column Supports for Conveyors CC1A and CC1B	Detail of Stanchions that hold up the overhead conveyors
25	FSD-DTB-130513-25	3036-Final-ext	Barge Loader with 72"Belt's GA	Detail of Barge Loader
26	FSD-DTB-130513-26	1648-snorkle assy	Snorkel Assembly for Barge Loader	Detail of snorkel off end of barge loader
27	FSD-DTB-130513-27	1648-FSD-crossover-assy	1648-FSD-Crossover-Assy-GA	Details of the stairs that allow you to cross over from one side of the receiving pits to the other
28	FSD-DTB-130513-28	1648-Main Mcc	Main MCC GA	Detail of the control room by the receiving pits
29	FSD-DTB-130513-29	1648-Barge Mcc	1648 Barge MCC and Control Tower	Detail of the control room by the barge loader
30	FSD-DTB-130513-30	Loader Settling Pond 100	Secondary Settlement Pond with Transfer Sump	Detail of settling pond by the emergency stockpile
31	FSD-DTB-130513-31	Dumper area-water settling pond	Primary/Secondary Settlement Ponds	Detail of settling pond by the receiving pits
32	FSD-DTB-130513-32	SK002 P5	Water Sprays and Wastewater Management Schematic	Water Management Process Flow
33	FSD-DTB-130513-33	Boom (Fender) log Design	Boom (Fender) Log Design	Boom (Fender) Log Design

Date: October 18th, 2013
Project: FSD DTB

TITLE BLOCK: DL-TB.dwg

FRASER RIVER

DUST SUPPRESSANT AGENT PUMP SKID & HOLDING TANKS

BARGE CONTROL ROOM

WARPING SYSTEM

COAL BARGE

COAL BARGE

RECEIVING PITS (RECEIVING SHED NOT SHOWN FOR CLARITY)

PILINGS (x12)

SHED ONE

SHED TWO

CONVEYOR

DUMPER AREA SETTLEMENT POND

POSITIONER

LOADING AREA SETTLEMENT POND

RECEIVING SHED CONTROL ROOM

COAL RAIL LOOP (NEW TRACK 44)

EXISTING TRACK 45

AGRI-RAIL LOOP (REALIGNED TRACK 45)

TITAN STEEL

STORAGE

SHED FOUR

SHED FIVE

STEEL GATE

LUNCH ROOM

ACCOUNTING

REALIGNED INTERFOR LEAD

25 RAIL CARS, EXIT TRACK BETWEEN RECEIVING PITS AND TURNOUT

ALASKA WAY

BEKAERT CANADA

TIE-IN TO EXISTING

TIE-IN TO EXISTING

RELOCATED BEKAERT ACCESS

Gunderson Slough

CITY OF SURREY CORPORATION OF DELTA

ELEVATOR ROAD

TURNOUT TO TRACK 44 & TRACK 45

ROBSON ROAD

REMOVE TURNOUT & RECONNECT TRACK

REPAIR EXISTING TRACK

BNSF LEAD FROM BNSF MAIN LINE

REMOVE TRACK

REMOVE TURNOUT & RECONNECT TRACK

4 LOCOMOTIVES

RIVER ROAD

FSD DTB PROJECT PERMIT DRAWINGS NOT FOR CONSTRUCTION

LEGEND

- PROPOSED RAILWAY TRACK
- PROPOSED RAILWAY SWITCH
- FSD LEASE BOUNDARY
- RAIL YARD LEASE BOUNDARY
- 52' RAIL CAR

1:1500 0 30 90m

DATE: 2013/10/24 - 5:17pm
PATH: Q:\EB\3765 FSD DTB Coal Facility Engineering Design Services\EB\Dwgs\Report Figures & Sketch Plans\EB3765-SK-08 & SK-09.dwg

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H	2013/10/24	REVISED AS PER FSD COMMENTS	DCB	SH
G	2013/10/07	REVISED AS PER FSD COMMENTS	BD	SH
F	2013/09/13	REVISED COAL FACILITY LAYOUT, ROADS	BD	SH
E	2013/05/16	UPDATED LAYOUT	DCB	SH
D	2013/05/14	RAIL CARS ADDED	DCB	SH

FRASER SURREY DOCKS LP

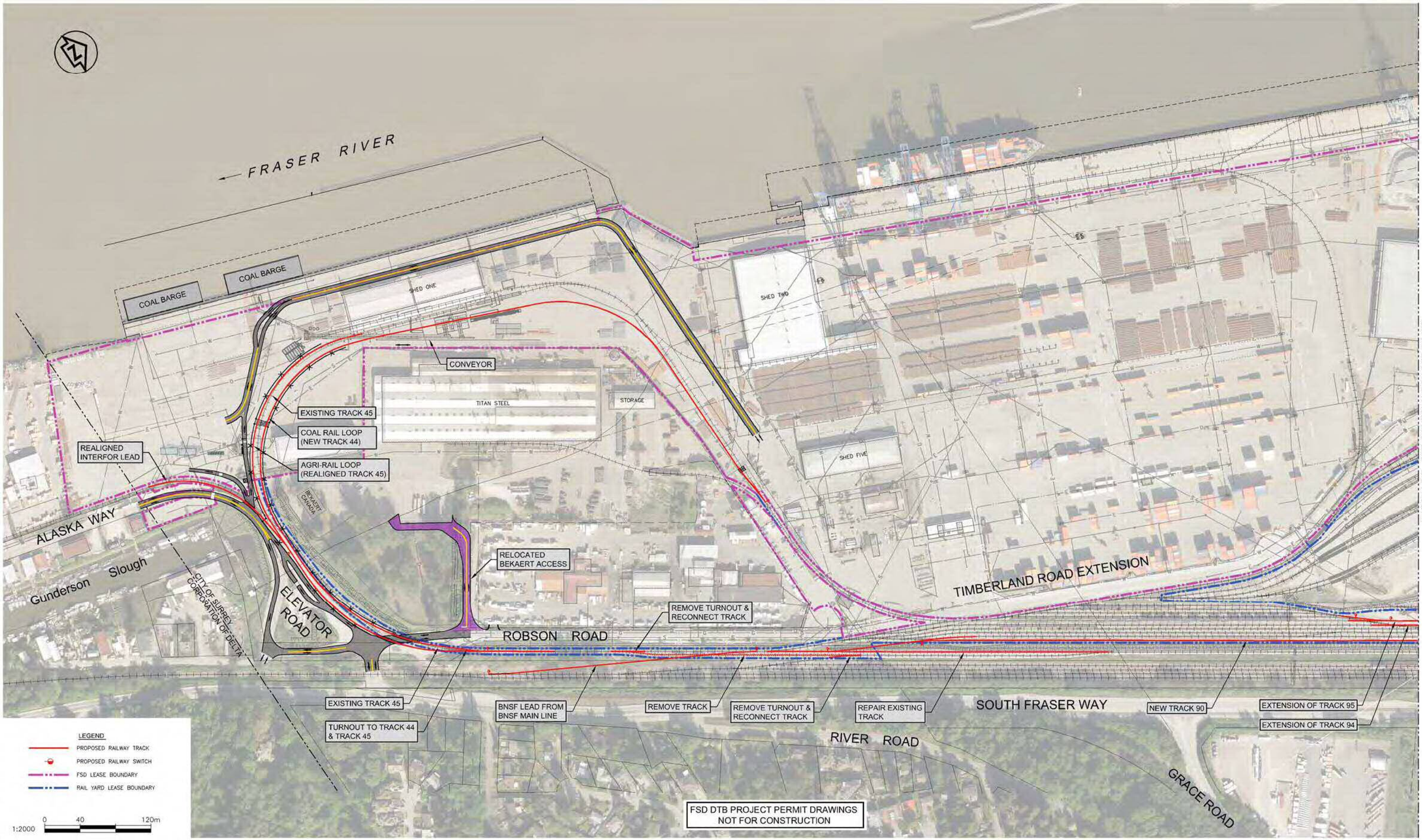
DESIGN BY	SH
DRAWN BY	DCD
APPROVED	SH
DATE	2013/03/08
SCALE	AS SHOWN
PMV SITE	

DTB COAL FACILITY

FSD-DTB-181013-01

SIZE	DWG.	SHEET	REV.
D	EB3785-SK-09	9 of 21	H

TITLE BLOCK: DL-TB.dwg



LEGEND
- PROPOSED RAILWAY TRACK
- PROPOSED RAILWAY SWITCH
- FSD LEASE BOUNDARY
- RAIL YARD LEASE BOUNDARY

1:2000 0 40 120m

FSD DTB PROJECT PERMIT DRAWINGS
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DATE: 2013/10/24 - 4:59pm
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F	2013/10/24	REVISED BEKAERT ACCESS	DCB	SH
E	2013/10/07	REVISED AS PER FSD COMMENTS	DCB	SH
D	2013/09/13	REVISED COAL FACILITY LAYOUT, ROADS	DCB	SH
C	2013/07/10	REVISED COAL FACILITY LAYOUT, ROADS	DCB	SH
B	2013/05/09	REVISED COAL FACILITY LAYOUT	DCB	SH

FRASER SURREY DOCKS LP

DESIGN BY	SH
DRAWN BY	DCB
APPROVED	SH
DATE	2013/05/06
SCALE	AS SHOWN
PMV SITE	

DTB COAL FACILITY
RAIL WORKS

FSD-DTB-181013-02

SIZE	DWG.	SHEET	REV.
D	EB3785-SK-19A	19A of 21	F

TITLE BLOCK: DL-18.dwg

MATCH LINE - FOR CONTINUATION SEE SK-19A

FRASER RIVER

SHED SIX

SYLVAN DISTRIBUTION LTD.

A1 TRUSSES LTD.

MANSON CANAL

PINE ROAD

TANNERY ROAD

TIMBERLAND ROAD

WESTRAN INTERMODAL LTD.

EXTENSION OF TRACK 95

EXTENSION OF TRACK 94

NEW TRACK 90

SOUTH FRASER WAY

CONNECTION FROM TRACK 90 & TRACK 91 TO CN LEAD

LEGEND

- PROPOSED RAILWAY TRACK
- PROPOSED RAILWAY SWITCH
- FSD LEASE BOUNDARY
- RAIL YARD LEASE BOUNDARY

1:2000 0 40 120m

FSD DTB PROJECT PERMIT DRAWINGS
NOT FOR CONSTRUCTION

DATE: 2013/09/12 - 12:31pm
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No.	Date	REVISION	Dr'n	Ch'd
D	2013/09/13	REVISED COAL FACILITY LADUT, ROADS	DCB	SH
C	2013/07/10	REVISED COAL FACILITY LADUT, ROADS	DCB	SH
B	2013/05/09	REVISED COAL FACILITY LAYOUT	DCB	SH
A	2013/05/08	PRELIMINARY ARRANGEMENT	DCB	SH

FRASER SURREY DOCKS LP

DESIGN BY	SH
DRAWN BY	DCD
APPROVED	SH
DATE	2013/05/06
SCALE	AS SHOWN
PMV SITE	

DTB COAL FACILITY
RAIL WORKS

FSD-DTB-181013-03

SIZE	DWG.	SHEET	REV.
D	EB3785-SK-19B	19B of 21	D

TITLE BLOCK: DL-TB.dwg

FRASER RIVER

COAL BARGE

COAL BARGE

SHED ONE

CONVEYOR

TITAN STEEL

SHED FOUR

EXISTING TRACK 45

PROPOSED COAL RAIL LOOP (NEW TRACK 44)

PROPOSED AGRI-RAIL LOOP (REALIGNED TRACK 45)

SEE INSET 1

TIE-IN TO EXISTING

STEEL GATE

LUNCH ROOM

ACCOUNTING

PROPOSED REALIGNED INTERFOR LEAD

TIE-IN TO EXISTING

EXISTING TRACK

TIE-IN TO EXISTING

BEKAERT DEPOT

TIE-IN TO EXISTING

TIE-IN TO EXISTING

ALASKA WAY

FENCE OFFSET 2.6m TO 3.7m AT RAILWAY SWITCH

Gunderson Slough

CITY OF SURREY CORPORATION OF DELTA

ELEVATOR ROAD

TIE-IN TO EXISTING

ROBSON ROAD

TIE-IN TO EXISTING

TIE-IN TO EXISTING

EXISTING ROAD WIDTH 6.5m± TO 7.5m±

PROPOSED RAILWAY LEVEL CROSSING - LENGTH = 55.5m

PROPOSED RAILWAY LEVEL CROSSING - WIDTH = 31m

RIVER ROAD

FSD DTB PROJECT PERMIT DRAWINGS NOT FOR CONSTRUCTION

LEGEND

- PROPOSED RAILWAY TRACK
- PROPOSED RAILWAY SWITCH
- PROPOSED CHAINLINK FENCE
- VEHICLE TRAFFIC FLOW
- RELOCATED BEKAERT ACCESS
- FSD LEASE BOUNDARY
- PMV PARY LEASE BOUNDARY

1:1500 0 30 90m

EXISTING MAIN GATE (IN/OUT - WIDTH = 10m)
PROPOSED MAIN GATE - INBOUND ONLY ALONG EXISTING OUTBOUND ALIGNMENT (WIDTH = 5.0m)

EXISTING MAIN GATE CARD READER

PROPOSED MAIN GATE CARD READER RELOCATED 6.2m WEST

STEEL GATE

ACCOUNTING

LUNCH ROOM

EXISTING MAIN GATE KIOSK

PROPOSED MAIN GATE KIOSK RELOCATED 7m WEST

EXISTING STEEL GATE TO REMAIN

PROPOSED REALIGNED INTERFOR LEAD

EXISTING TRACK

PROPOSED RAILWAY TIMBER CROSSING - LENGTH = 15.7m

2.6 (TYP.)

2.6 (TYP.)

PROPOSED FENCE (TYP.)

PROPOSED COAL RAIL LOOP (NEW TRACK 44)

PROPOSED AGRI-RAIL LOOP (REALIGNED TRACK 45)

4.5

4.5

4.5

5.7

2.6 (℄ TRACK TO FENCE)

2.6 (℄ TRACK TO FENCE)

4.0

4.0

PROPOSED GATE

1:500 0 10 30m

INSET 1
1:500

DATE: 2013/10/24 - 5:15pm
PATH: Q:\EB\3785 FSD DTB Coal Facility Engineering Design Services\EB\Dwgs\Report Figures & Sketch Plans\EB3765-SK-16 TO 18.dwg

Ref.No.	REFERENCE

NOTES:

1. TURNING MOVEMENTS DESIGNED FOR SEMI-TRAILER WB20 & DOUBLE TRAILER BTD VEHICLES.
2. MINIMUM 3.5m LANE WIDTHS WITH 0.5m SHOULDERS EXCEPT AS SHOWN.
3. PROPOSED FENCES ARE OFFSET 2.6m FROM CENTRELINE OF RAILWAY TRACK EXCEPT AS SHOWN.
4. EXISTING AND PROPOSED EXPANDED LEASE BOUNDARIES ARE DEFINED AT 3.05m (10') FROM RAIL CENTRELINES.

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G	2013/10/24	REVISED BEKAERT ACCESS	DCB	SH
F	2013/10/07	REVISED AS PER FSD COMMENTS	DCB	SH
E	2013/09/13	REVISED COAL FACILITY LAYOUT, ROADS	DCB	SH
D	2013/07/10	REVISED COAL FACILITY LAYOUT, ROADS	DCB	SH
C	2013/05/09	REVISED COAL FACILITY LAYOUT	DCB	SH

FRASER SURREY DOCKS LP

DESIGN BY	SH
DRAWN BY	DCB
APPROVED	SH
DATE	2013/04/25
SCALE	AS SHOWN
PMV SITE	

DTB COAL FACILITY
MAIN GATE RELOCATION

FSD-DTB-181013-04

SIZE	DWG.	SHEET	REV.
D	EB3785-SK-16	16 of 21	C

TITLE BLOCK: DL-TB.dwg
DATE: 2013/10/24 - 5:13pm
PATH: Q:\EB\3785 FSD DTB Coal Facility Engineering Design Services\EB\Dwgs\Report Figures & Sketch Plans\EB3765-SK-16 TO 18.dwg

FRASER RIVER

COAL BARGE

COAL BARGE

SHED ONE

CONVEYOR

TITAN STEEL

SHED FOUR

EXISTING TRACK 45

PROPOSED COAL RAIL LOOP (NEW TRACK 44)

PROPOSED AGRI-RAIL LOOP (REALIGNED TRACK 45)

TIE-IN TO EXISTING

PROPOSED REALIGNED INTERFOR LEAD

EXISTING TRACK

ALASKA WAY

BEKAERT DAMON

SEE INSET 2

FENCE OFFSET 2.6m TO 3.7m AT RAILWAY SWITCH

2.6 ℄ TRACK TO FENCE (TYP.)

Gunderson Slough

CITY OF SURREY CORPORATION OF DELTA

ELEVATOR ROAD

ROBSON ROAD

RIVER ROAD

EXISTING ROAD WIDTH 6.5m± TO 7.5m±

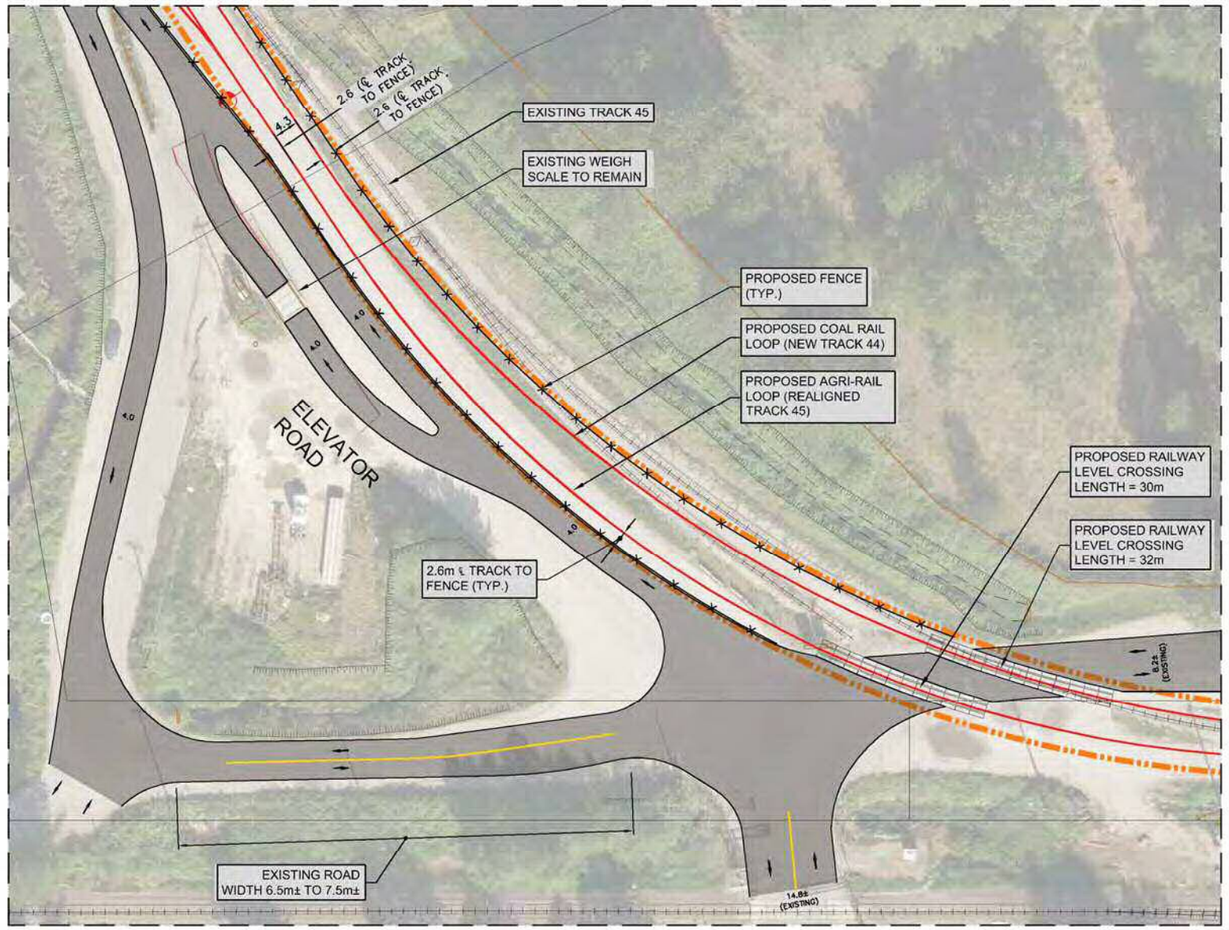
PROPOSED RAILWAY LEVEL CROSSING - LENGTH = 55.5m

PROPOSED RAILWAY LEVEL CROSSING - WIDTH = 31m

LEGEND

- PROPOSED RAILWAY TRACK
- PROPOSED RAILWAY SWITCH
- PROPOSED CHAINLINK FENCE
- VEHICLE TRAFFIC FLOW
- RELOCATED BEKAERT ACCESS
- FSD LEASE BOUNDARY
- PROPOSED EXPANDED LEASE BOUNDARY (RAIL)

1:1500 0 30 90m



INSET 2
1:500

FSD DTB PROJECT PERMIT DRAWINGS NOT FOR CONSTRUCTION

NOTES:

1. TURNING MOVEMENTS DESIGNED FOR SEMI-TRAILER WB20 & DOUBLE TRAILER BTD VEHICLES.
2. MINIMUM 3.5m LANE WIDTHS WITH 0.5m SHOULDERS EXCEPT AS SHOWN.
3. PROPOSED FENCES ARE OFFSET 2.6m FROM CENTRELINE OF RAILWAY TRACK EXCEPT AS SHOWN.
4. EXISTING AND PROPOSED EXPANDED LEASE BOUNDARIES ARE DEFINED AT 3.05m (10') FROM RAIL CENTRELINES.

Ref.No. REFERENCE

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G	2013/10/24	REVISED BEKAERT ACCESS	DCB	SH
F	2013/10/07	REVISED AS PER FSD COMMENTS	DCB	SH
E	2013/09/13	REVISED COAL FACILITY LAYOUT, ROADS	DCB	SH
D	2013/07/10	REVISED COAL FACILITY LAYOUT, ROADS	DCB	SH
C	2013/05/09	REVISED COAL FACILITY LAYOUT	DCB	SH

FRASER SURREY DOCKS LP

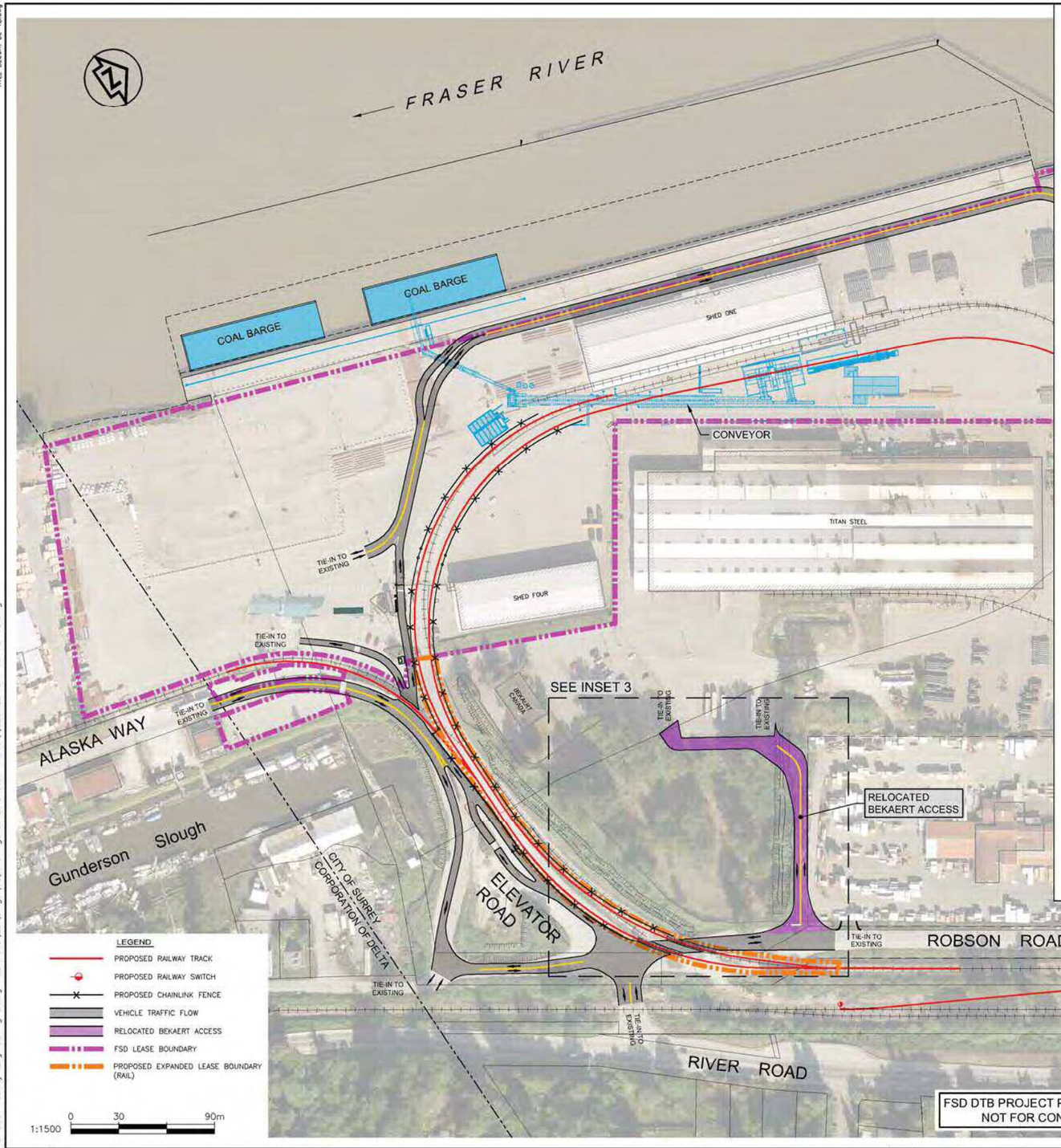
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APPROVED	SH
DATE	2013/04/25
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PMV SITE	

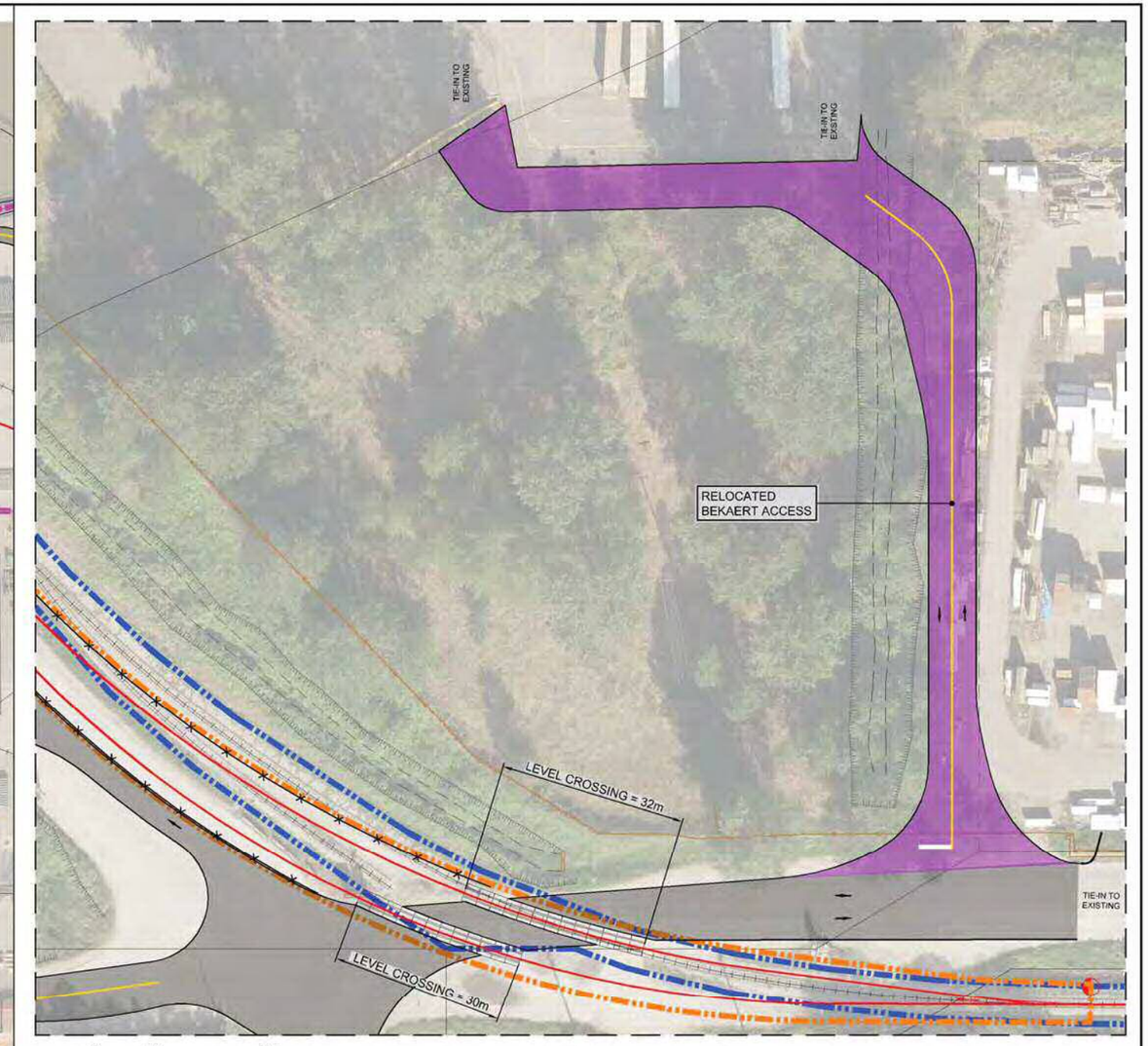
DTB COAL FACILITY
ELEVATOR ROAD ALIGNMENT

FSD-DTB-181013-05

SIZE	DWG.	SHEET	REV.
D	EB3785-SK-17	17 of 21	G

TITLE BLOCK: DL-78.dwg





INSET 3
1:500

FSD DTB PROJECT PERMIT DRAWINGS
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Ref.No.	REFERENCE

NOTES:

1. TURNING MOVEMENTS DESIGNED FOR SEMI-TRAILER WB20 & DOUBLE TRAILER BTD VEHICLES.
2. MINIMUM 3.5m LANE WIDTHS WITH 0.5m SHOULDERS EXCEPT AS SHOWN.
3. PROPOSED FENCES ARE OFFSET 2.6m FROM CENTRELINE OF RAILWAY TRACK EXCEPT AS SHOWN.
4. EXISTING AND PROPOSED EXPANDED LEASE BOUNDARIES ARE DEFINED AT 3.05m (10') FROM RAIL CENTRELINES.

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G	2013/10/24	REVISED BEKAERT ACCESS	DCB	SH
F	2013/10/07	REVISED AS PER FSD COMMENTS	DCB	SH
E	2013/09/13	REVISED COAL FACILITY LAYOUT, ROADS	BD	SH
D	2013/07/10	REVISED COAL FACILITY LAYOUT, ROADS	DCB	SH
C	2013/06/19	REVISED OPTION 2 TO BEKAERTS	DCB	SH

FRASER SURREY DOCKS LP

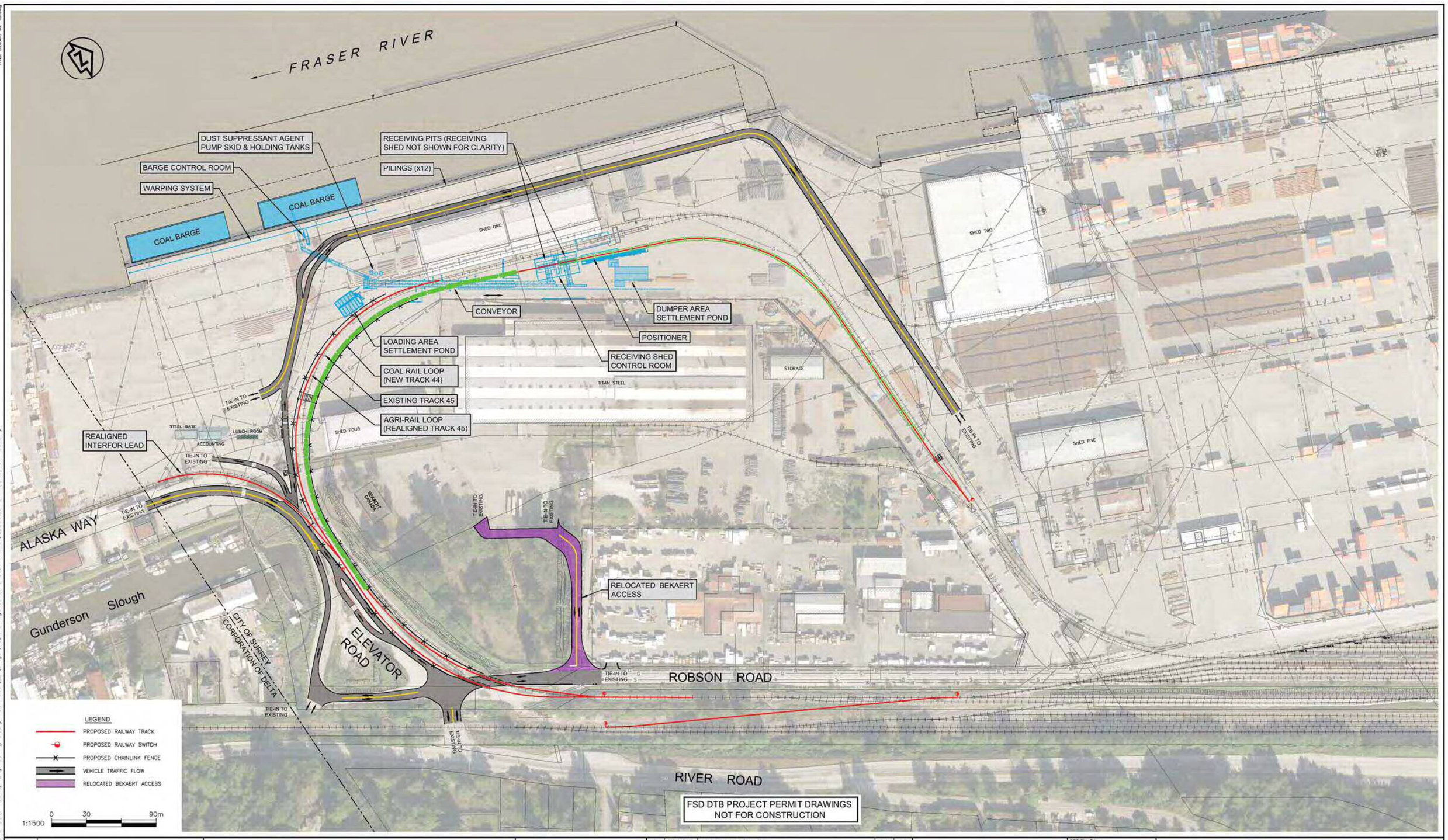
DESIGN BY	SH
DRAWN BY	DCD
APPROVED	SH
DATE	2013/05/06
SCALE	AS SHOWN
PMV SITE	

DTB COAL FACILITY
BEKAERT ACCESS RELOCATION

FSD-DTB-181013-06

SIZE	DWG.	SHEET	REV.
D	EB3785-SK-18	18 of 21	G

DATE: 2013/10/24 - 5:12pm
PATH: Q:\EB\3785 FSD DTB Coal Facility Engineering Design Services\EB\Dwgs\Report Figures & Sketch Plans\EB3785-SK-16 TO 18.dwg



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F	2013/10/07	REVISED AS PER FSD COMMENTS	DCB	SH
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C	2013/05/09	REVISED COAL FACILITY LAYOUT	DCB	SH

FRASER SURREY DOCKS LP

DESIGN BY	SH
DRAWN BY	DCD
APPROVED	SH
DATE	2013/03/08
SCALE	AS SHOWN
PMV SITE	

DTB COAL FACILITY

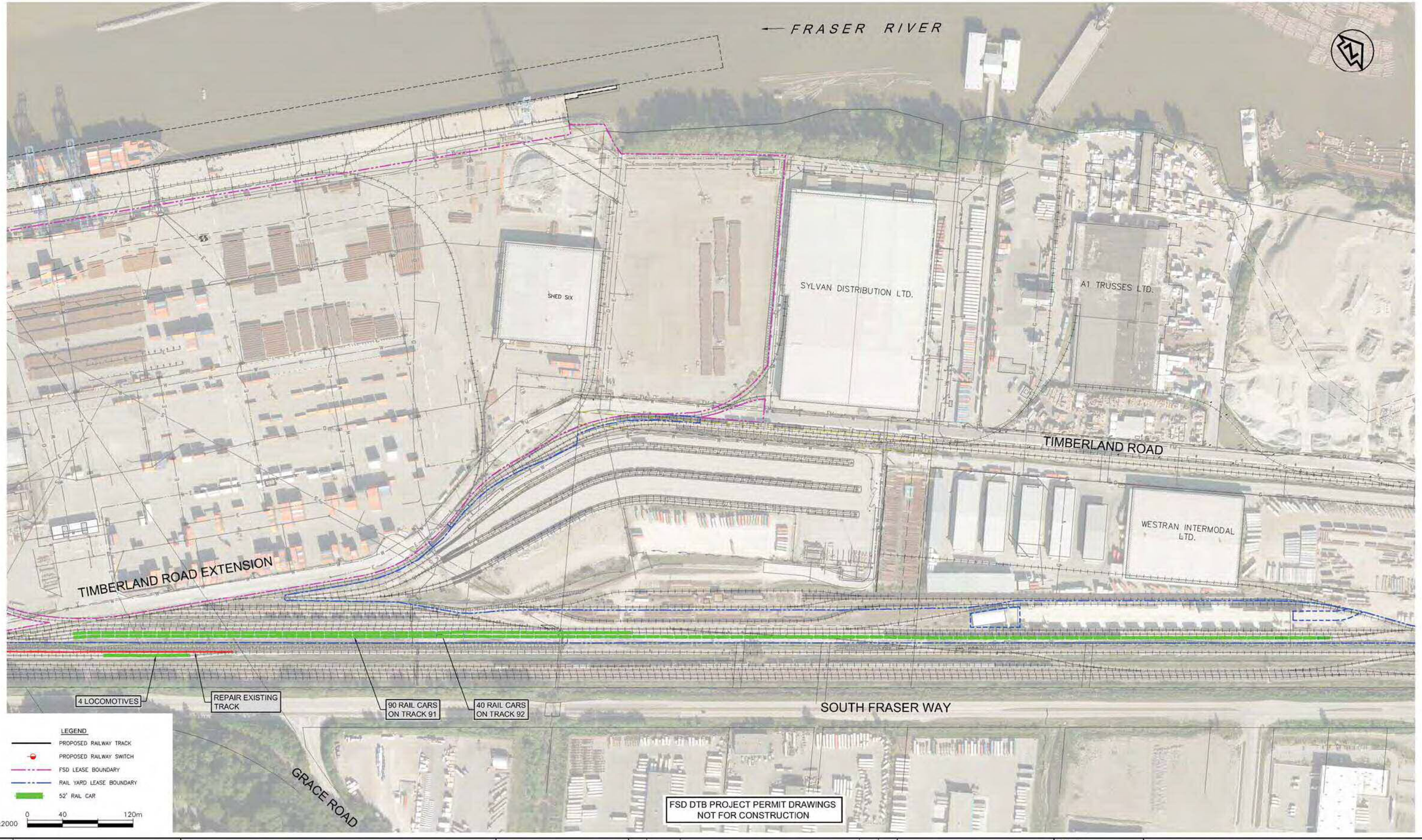
FSD-DTB-181013-07

SIZE	DWG.	SHEET	REV.
D	EB3785-SK-08	8 of 21	G

DATE: 2013/10/24 - 5:18pm
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METROTOWER I, SUITE 1200, 4710 KINGSWAY,
BURNABY, BRITISH COLUMBIA, CANADA V5H 4M2
TEL: 604-438-3000 FAX: 604-438-3300
www.delcan.com

No.	Date	REVISION	Dr'n	Ch'd
B	2013/05/16	UPDATED LAYOUT	BD	SH
A	2013/05/14	RAIL CAR STORAGE	BD	SH

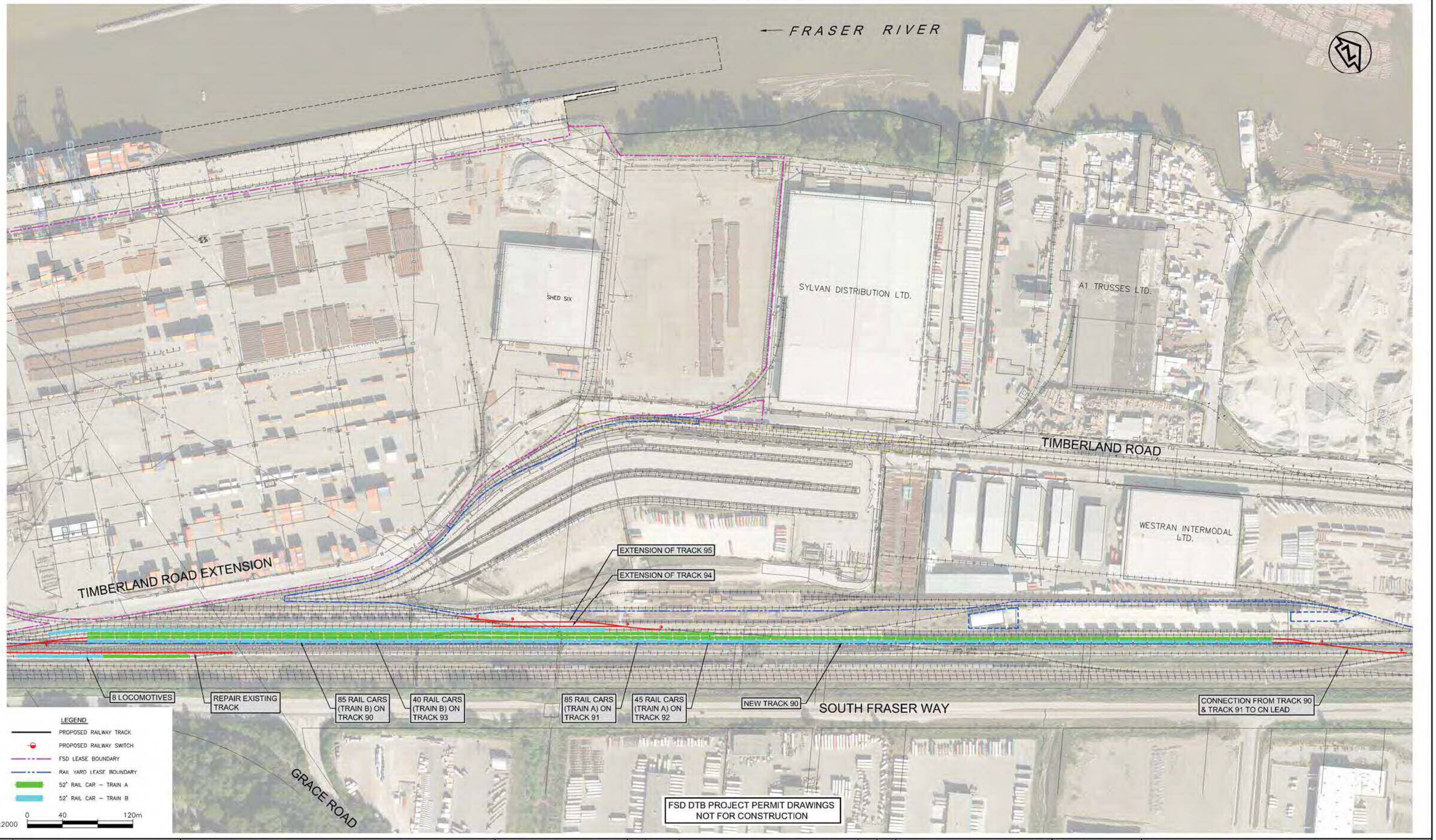
FRASER SURREY DOCKS LP

DESIGN BY	SH
DRAWN BY	BD
APPROVED	SH
DATE	2013/05/14
SCALE	AS SHOWN
PMV SITE	

DTB COAL FACILITY
RAIL CAR STORAGE
0 – 2 MILLION TONNES

FSD-DTB-181013-08

SIZE	DWG.	SHEET	REV.
D	EB3785-SK-20	20 of 21	B



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TEL: 604-438-5000 FAX: 604-438-5350
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No.	Date	REVISION	Dr'n	Ch'd
A	2013/05/16	RAIL CAR STORAGE	BD	SH

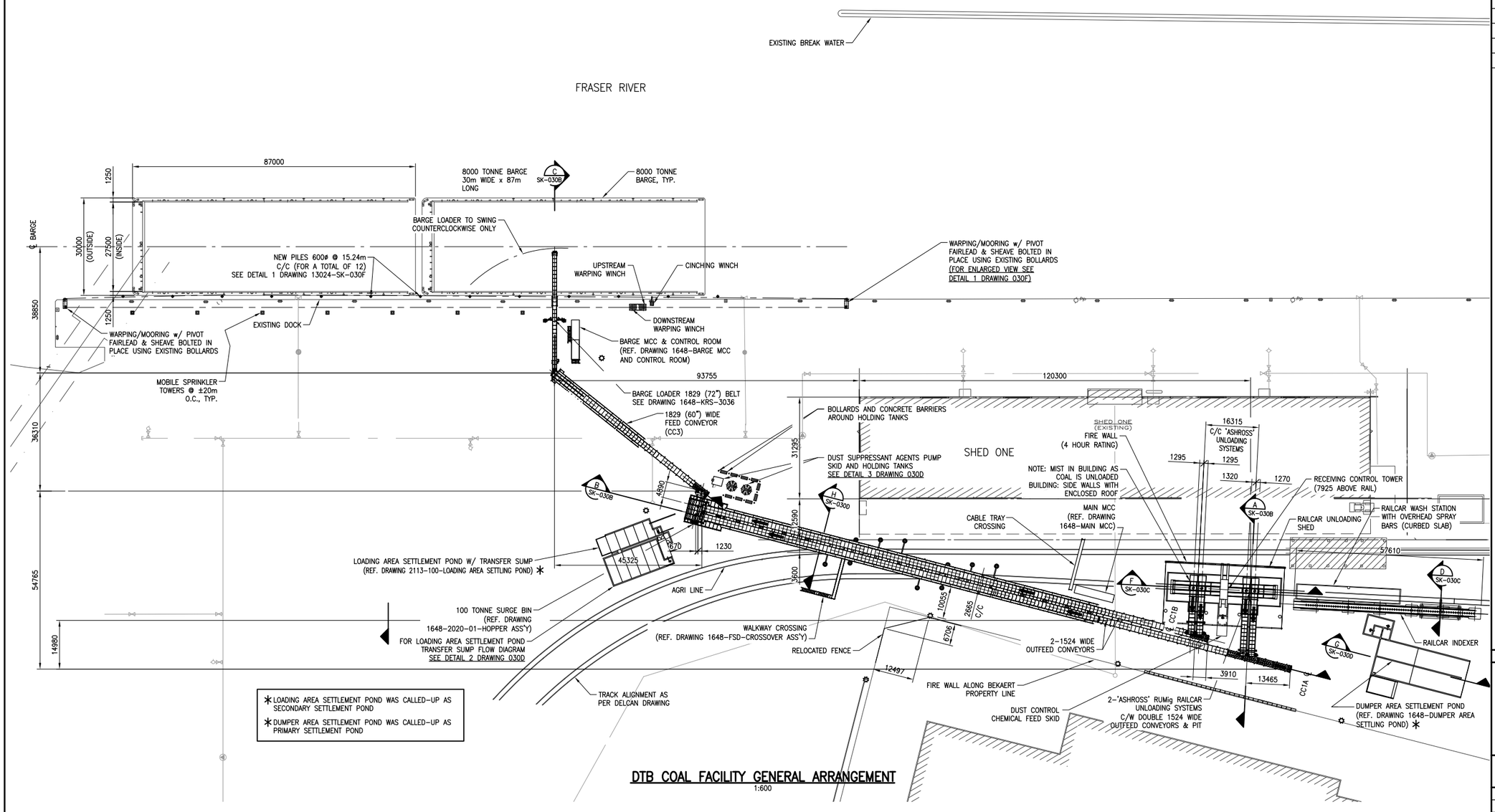
FRASER SURREY DOCKS LP

DESIGN BY	SH
DRAWN BY	BD
APPROVED	SH
DATE	2013/05/16
SCALE	AS SHOWN
PMV SITE	

DTB COAL FACILITY
RAIL CAR STORAGE
2 – 4 MILLION TONNES
FSD-DTB-181013-09

SIZE	DWG.	SHEET	REV.
D	EB3785-SK-21	21 of 21	A

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DATE: 2013/09/12 – 12:50pm
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DTB COAL FACILITY GENERAL ARRANGEMENT
1:600

FSD-DTB-181013-10

10 M 50 M

Issue	D/M/Y	By	Issued For:	Rev.
H	12/11/13	JRM	PERMIT APPLICATION	P8
G	07/10/13	JRM	PERMIT APPLICATION	P7
F	30/08/13	JRM	PERMIT APPLICATION	P6
E	10/07/13	JRM	PERMIT APPLICATION	P5
D	24/05/13	CAP	PERMIT APPLICATION	P4
C	10/05/13	CPL	PERMIT APPLICATION	P3
B	08/05/13	CPL	PERMIT APPLICATION	P2
A	30/04/13	CPL	PERMIT APPLICATION	P1

REFERENCE DRAWINGS / DESIGN STANDARDS

NUMBER	DESCRIPTION

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No.	Revision	By	D/M/Y

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V5M 4X5
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Fax: (604) 637-2276

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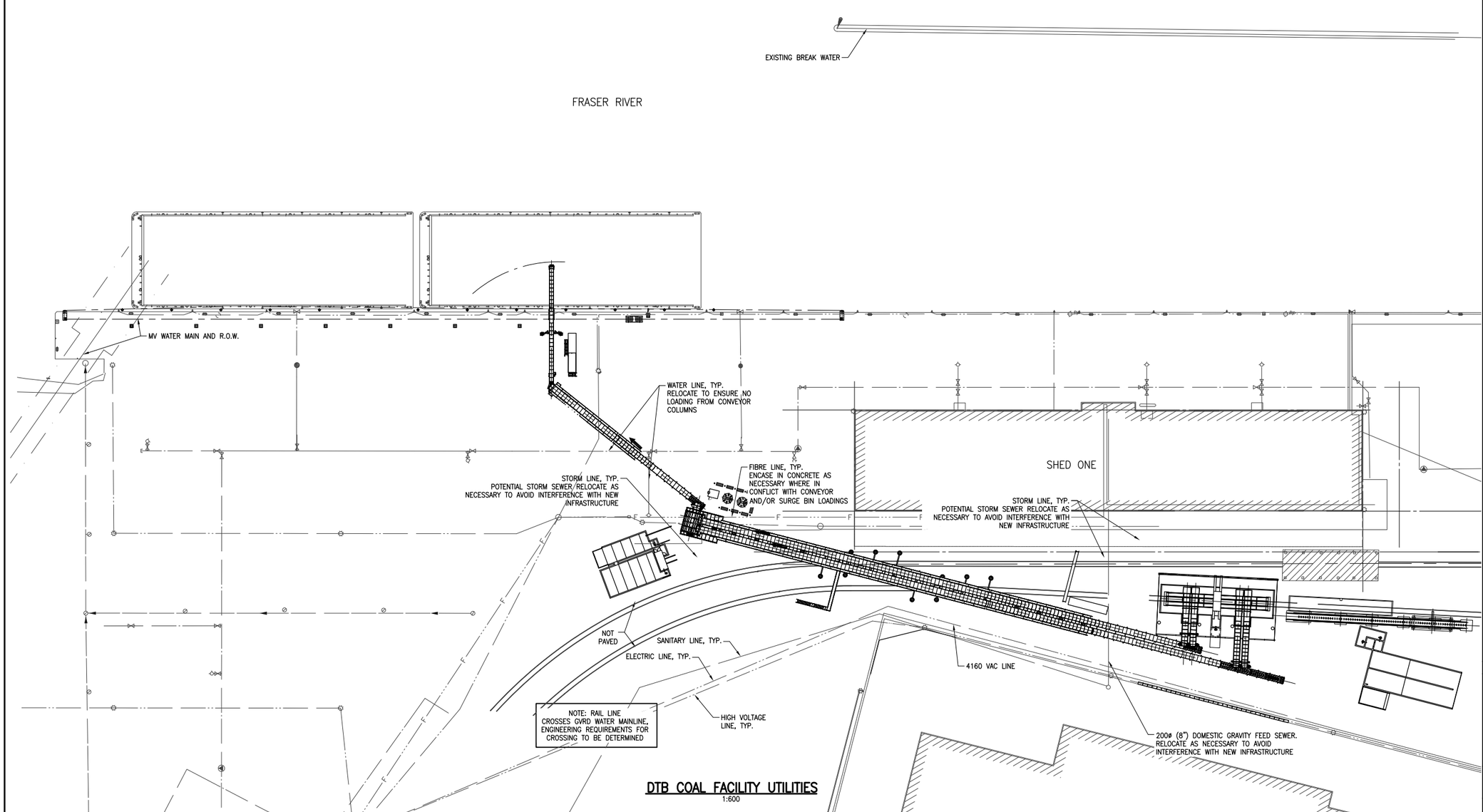
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Drawn By	JRM/CPL	–	–	–
Design By				
Dwg Check By				
Design Check By				
Approved By				

Scale: 1:600 | Acad File: 13024-SK-030A

FRASER SURREY DOCKS LP
PACIFIC RIM STEVEDORING
SURREY, B.C.

TEMPORARY COAL BARGE LOADING FACILITY GENERAL ARRANGEMENT

Drawing No. 13024-SK-030A | Rev. P8



DTB COAL FACILITY UTILITIES
1:600

FSD-DTB-181013-11

10 M 50 M

Issue	D/M/Y	By	Issued For:	Rev.
G	12/11/13	JRM	PERMIT APPLICATION	P7
F	30/08/13	JRM	PERMIT APPLICATION	P6
E	10/07/13	JRM	PERMIT APPLICATION	P5
D	14/06/13	CPL	PERMIT APPLICATION	P4
C	05/06/13	JRM	PERMIT APPLICATION	P3
B	24/05/13	CAP	PERMIT APPLICATION	P2
A	08/05/13	CPL	PERMIT APPLICATION	P1

REFERENCE DRAWINGS / DESIGN STANDARDS

NUMBER	DESCRIPTION

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PROJECT PERMIT DRAWINGS
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No.	Revision	By	D/M/Y

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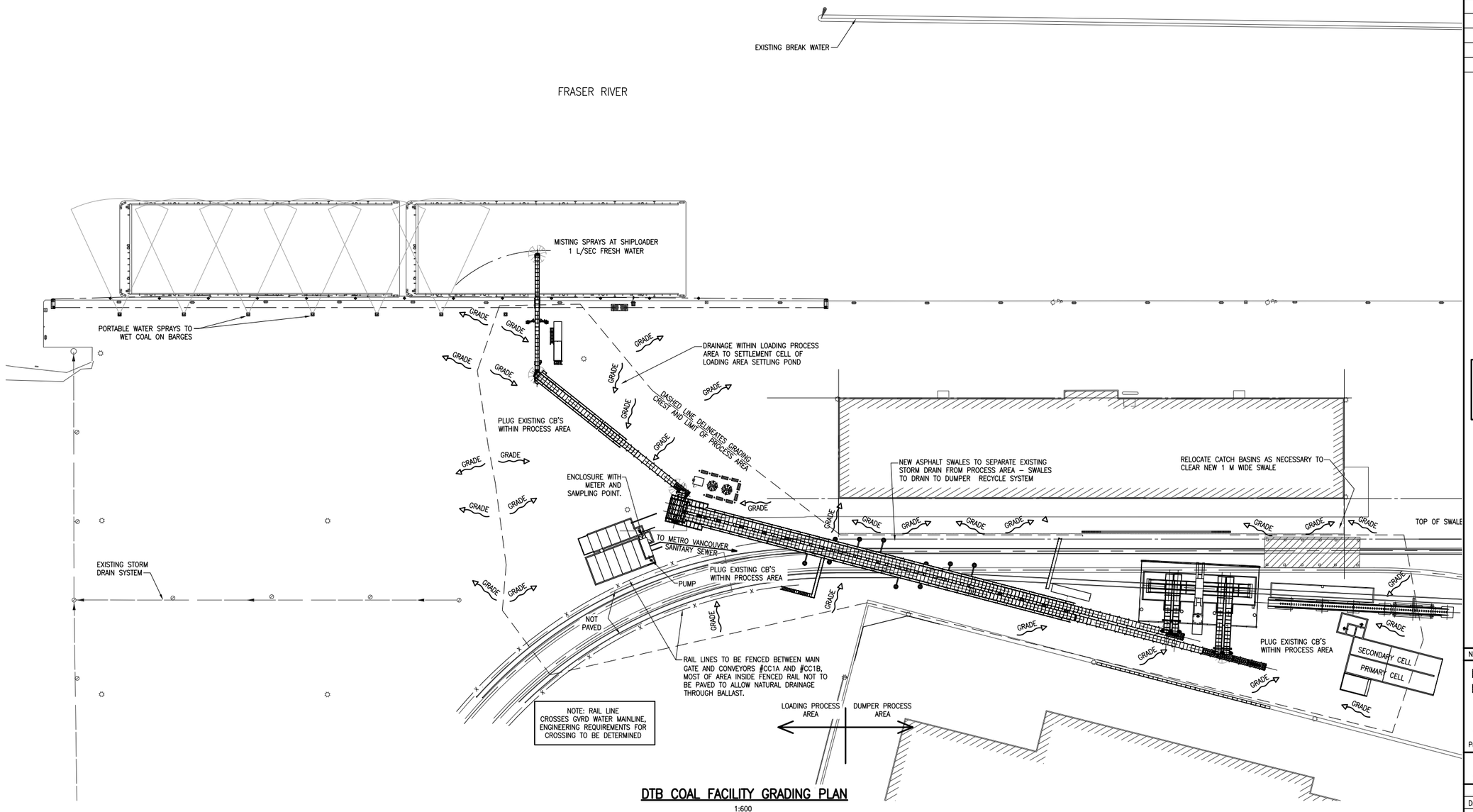
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Drawn By	JRM/CPL	–	–	–
Design By				
Dwg Check By				
Design Check By				
Approved By				

Scale: 1:600 | Acad File: 13024–SK–030A

FRASER SURREY DOCKS LP
PACIFIC RIM STEVEDORING
SURREY, B.C.

TEMPORARY COAL BARGE LOADING FACILITY GENERAL ARRANGEMENT

Drawing No. 13024–SK–030E | Rev. P7



DTB COAL FACILITY GRADING PLAN

1:600

FSD-DTB-181013-12

10 M 50 M

REFERENCE DRAWINGS / DESIGN STANDARDS	
NUMBER	DESCRIPTION

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No.	Revision	By	D/M/Y

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V5M 4X5
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	Name	Day	Month	Year
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Design By				
Dwg Check By				
Design Check By				
Approved By				

Scale: 1:600 | Acad File: 13024–SK–030A

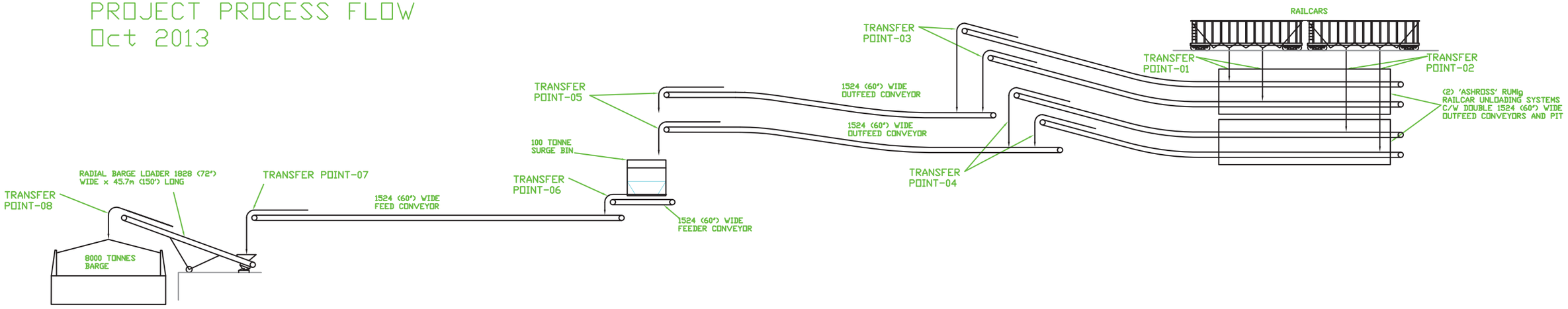
FRASER SURREY DOCKS LP
PACIFIC RIM STEVEDORING
SURREY, B.C.

TEMPORARY COAL BARGE LOADING FACILITY GENERAL ARRANGEMENT

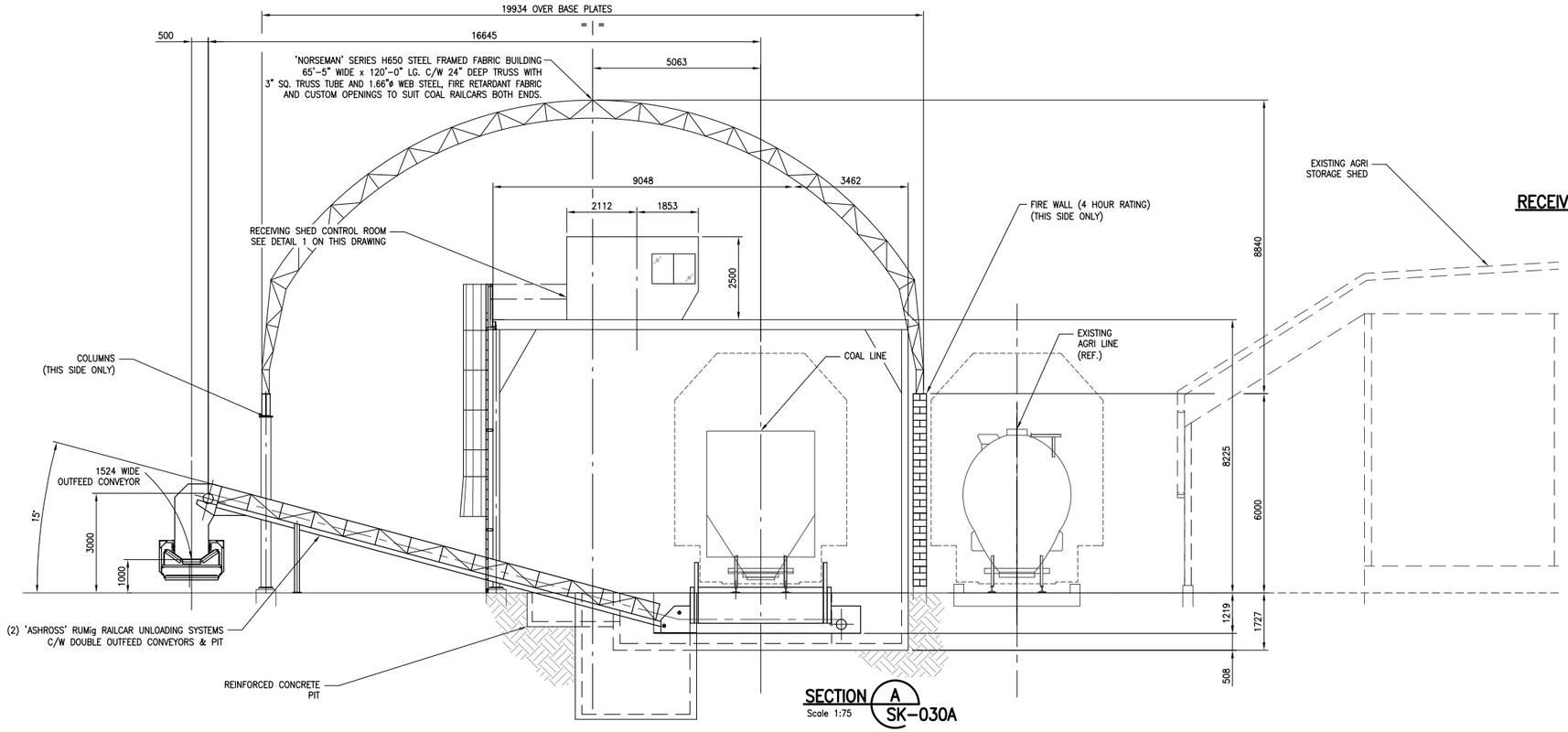
Drawing No. 13024–SK–030G | Rev. P5

Issue	D/M/Y	By	Issued For:	Rev.
E	12/11/13	JRM	PERMIT APPLICATION	P5
D	07/10/13	JRM	PERMIT APPLICATION	P4
C	30/08/13	JRM	PERMIT APPLICATION	P3
B	10/07/13	JRM	PERMIT APPLICATION	P2
A	24/05/13	CAP	PERMIT APPLICATION	P1

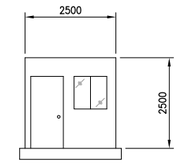
FRASER SURREY DOCKS DTB
PROJECT PROCESS FLOW
Oct 2013



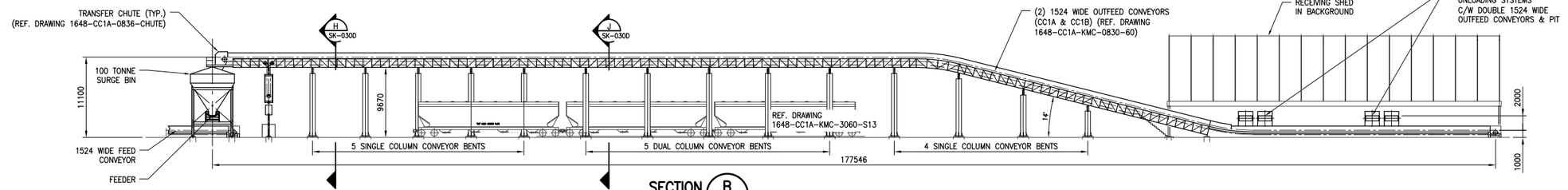
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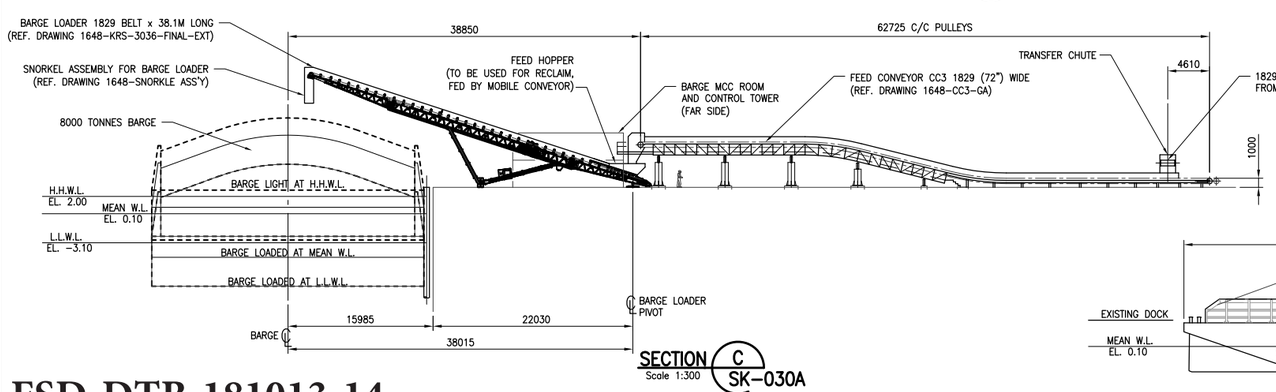
SECTION A
Scale 1:75
SK-030A



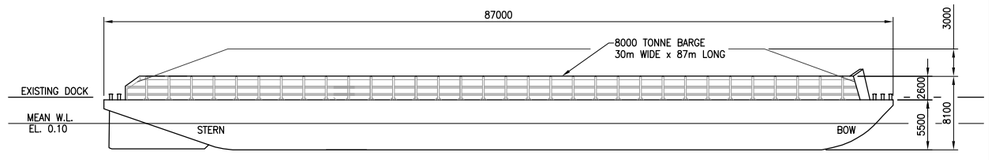
RECEIVING SHED CONTROL ROOM DETAIL 1
Scale 1:75



SECTION B
Scale 1:250
SK-030A



SECTION C
Scale 1:300
SK-030A



VIEW OF FULLY LOADED BARGE
Scale 1:300

FSD-DTB-181013-14

Issue	D/M/Y	By	Issued For:	Rev.
F	12/11/13	JRM	PERMIT APPLICATION	Rev. P6
E	30/08/13	JRM	PERMIT APPLICATION	Rev. P5
D	10/07/13	JRM	PERMIT APPLICATION	Rev. P4
C	10/05/13	CPL	PERMIT APPLICATION	Rev. P3
B	08/05/13	CPL	PERMIT APPLICATION	Rev. P2
A	30/04/13	CPL	PERMIT APPLICATION	Rev. P1

REFERENCE DRAWINGS / DESIGN STANDARDS

NUMBER	DESCRIPTION

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No.	Revision	By	D/M/Y

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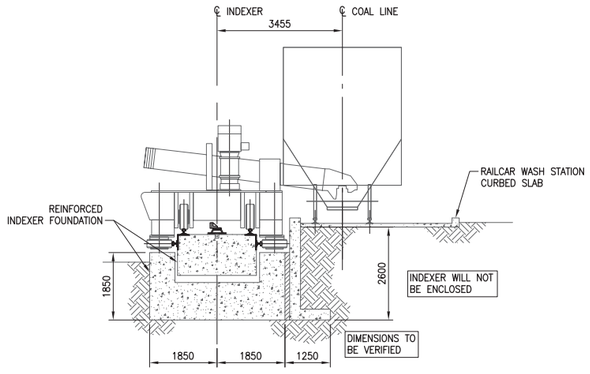
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Drawn By	JRM/CPL	–	–	–
Design By				
Dwg Check By				
Design Check By				
Approved By				

Scale: 1:500 | Acad File: 13024-SK-030A

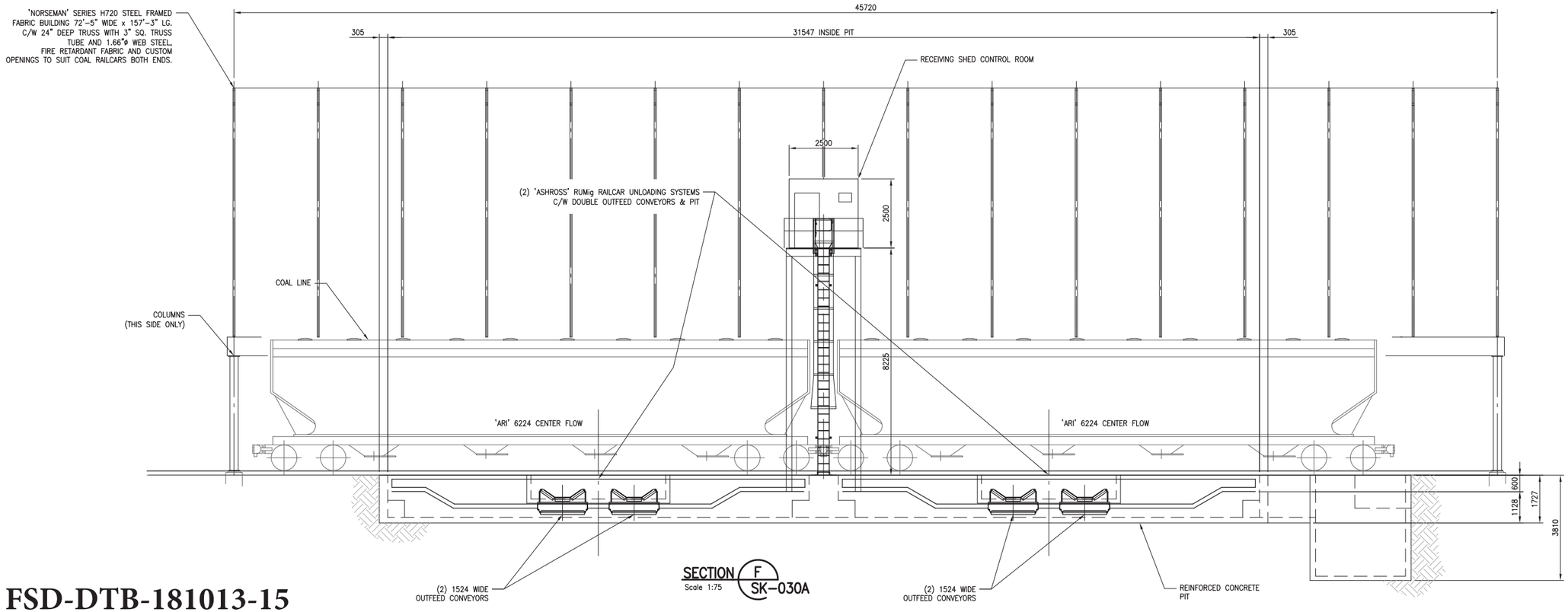
FRASER SURREY DOCKS LP
PACIFIC RIM STEVEDORING
SURREY, B.C.

TEMPORARY COAL BARGE LOADING FACILITY SECTIONS

Drawing No. 13024-SK-030B | Rev. P6



SECTION D
Scale 1:75
SK-030A



SECTION F
Scale 1:75
SK-030A

FSD-DTB-181013-15

Issue	D/M/Y	By	Issued For:	Rev.
E	30/08/13	JRM	PERMIT APPLICATION	Rev. P5
D	10/07/13	JRM	PERMIT APPLICATION	Rev. P4
C	24/05/13	CAP	PERMIT APPLICATION	Rev. P3
B	08/05/13	CPL	PERMIT APPLICATION	Rev. P2
A	30/04/13	CPL	PERMIT APPLICATION	Rev. P1

REFERENCE DRAWINGS / DESIGN STANDARDS

NUMBER	DESCRIPTION

FSD DTB
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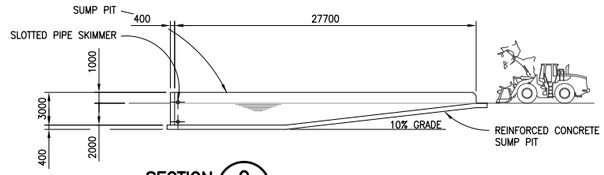
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Drawn By	JRM/CPL	–	–	–
Design By				
Dwg Check By				
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Approved By				

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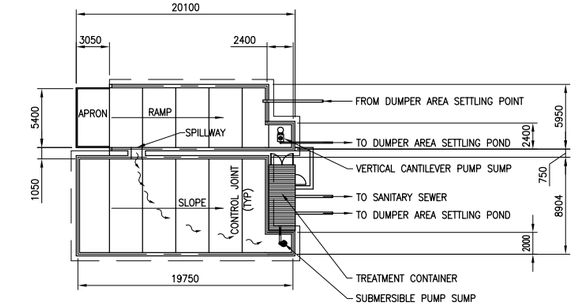
FRASER SURREY DOCKS LP
PACIFIC RIM STEVEDORING
SURREY, B.C.

TEMPORARY COAL BARGE LOADING FACILITY SECTIONS

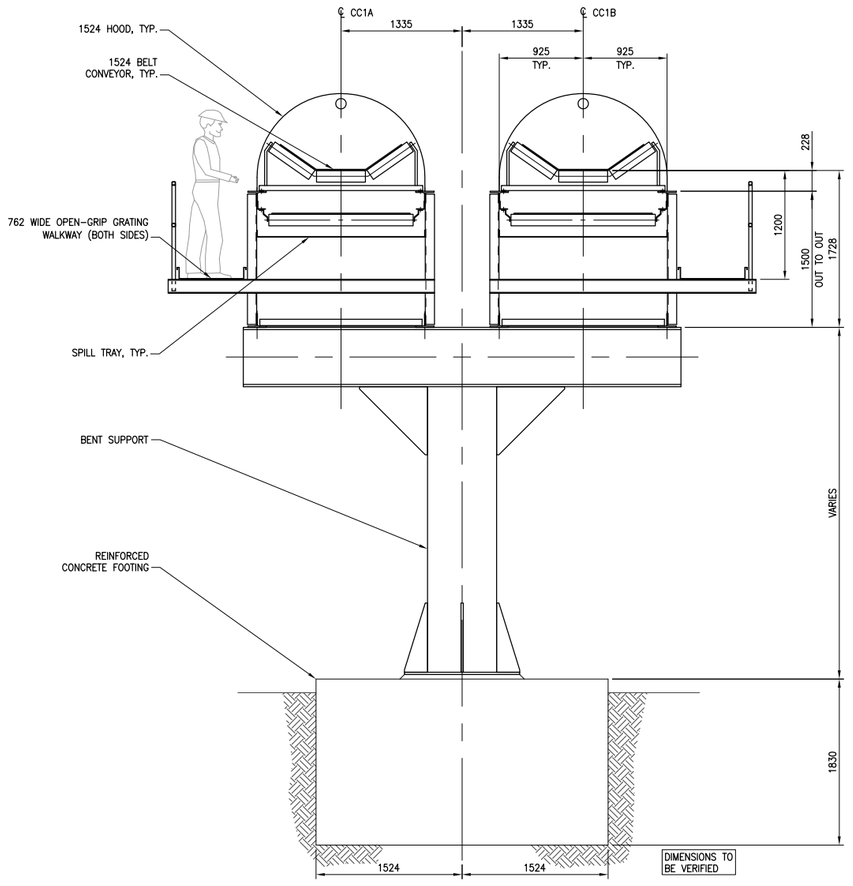
Drawing No. 13024–SK–030C
Rev. P5



SECTION G
Scale 1:250
SK-030A

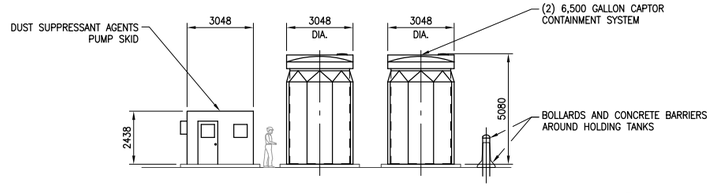


LOADING AREA SETTLEMENT POND DETAIL
Scale N.T.S.
2
SK-030A



TYP. BENT SECTION
Scale 1:30
H
SK-030A

SINGLE COLUMN CONVEYOR BENT.
TYPICAL BENT SUPPORT STRUCTURE OUTSIDE RAIL CROSSING AREA.
SEE KREATOR DRAWING 1648-CC1A-KMC-3060-S1 TO S5 FOR REFERENCE



DUST SUPPRESSANT AGENTS PUMP SKID AND HOLDING TANKS DETAIL
Scale 1:125
3
SK-030A

FSD-DTB-181013-16

REFERENCE DRAWINGS / DESIGN STANDARDS	
NUMBER	DESCRIPTION

FSD DTB
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Drawn By	JRM/CPL	-	-	-
Design By				
Dwg Check By				
Design Check By				
Approved By				

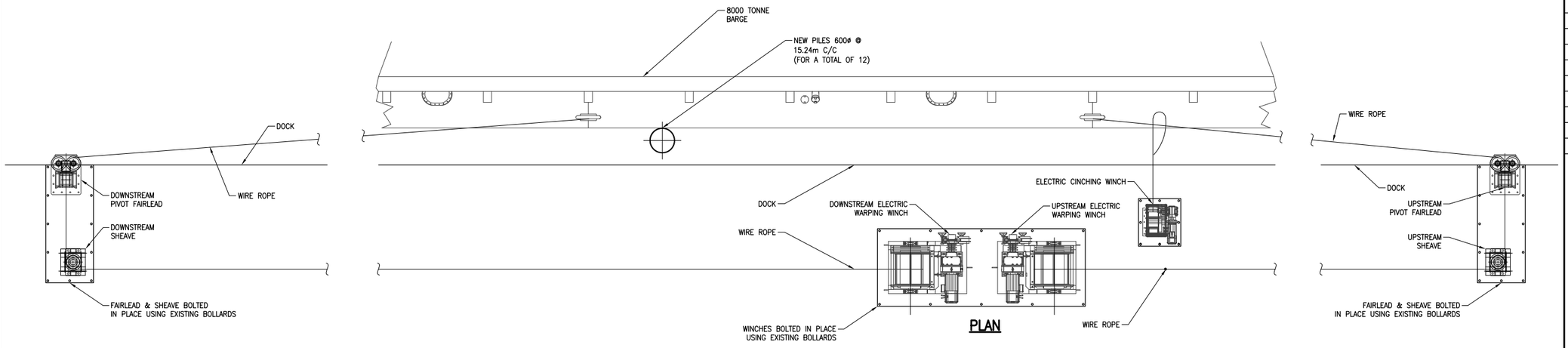
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FRASER SURREY DOCKS LP
PACIFIC RIM STEVEDORING
SURREY, B.C.

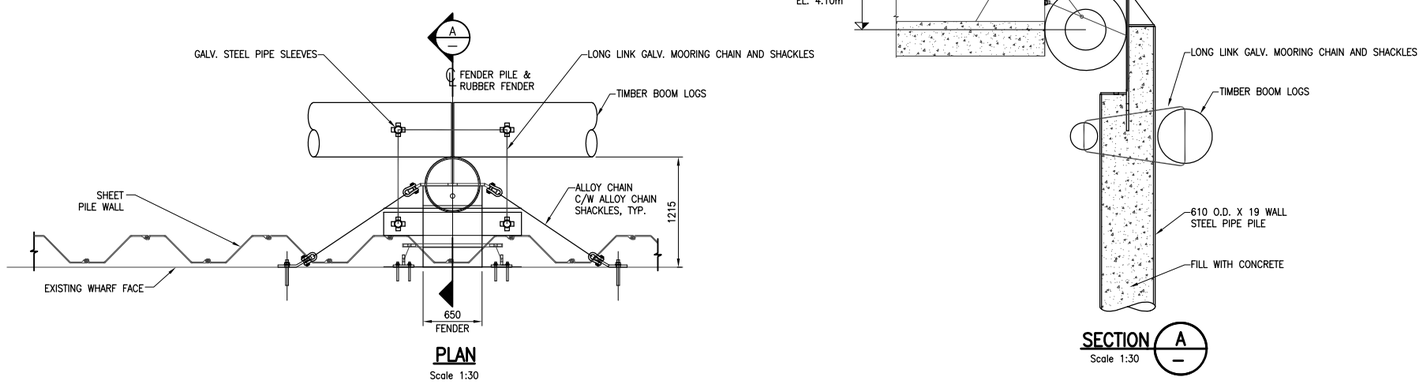
TEMPORARY COAL BARGE LOADING FACILITY SECTIONS

Drawing No. 13024-SK-030D | Rev. P6

Issue	D/M/Y	By	Issued For:	Rev.
F	12/11/13	JRM	PERMIT APPLICATION	P6
E	07/10/13	JRM	PERMIT APPLICATION	P5
D	30/08/13	JRM	PERMIT APPLICATION	P4
C	10/07/13	JRM	PERMIT APPLICATION	P3
B	08/05/13	CPL	PERMIT APPLICATION	P2
A	30/04/13	CPL	PERMIT APPLICATION	P1



ENLARGED BARGE WARPING SYSTEM (1 / SK-030A)
Scale 1:50



PLAN (A)
Scale 1:30

SECTION (A)
Scale 1:30

TYP. PILE DETAIL (2 / SK-030A) TYP. 12 LOCATIONS
Scale 1:30

FSD-DTB-181013-17

REFERENCE DRAWINGS / DESIGN STANDARDS	
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Drawn By	JRM/CPL	08	05	13
Design By				
Dwg Check By				
Design Check By				
Approved By				

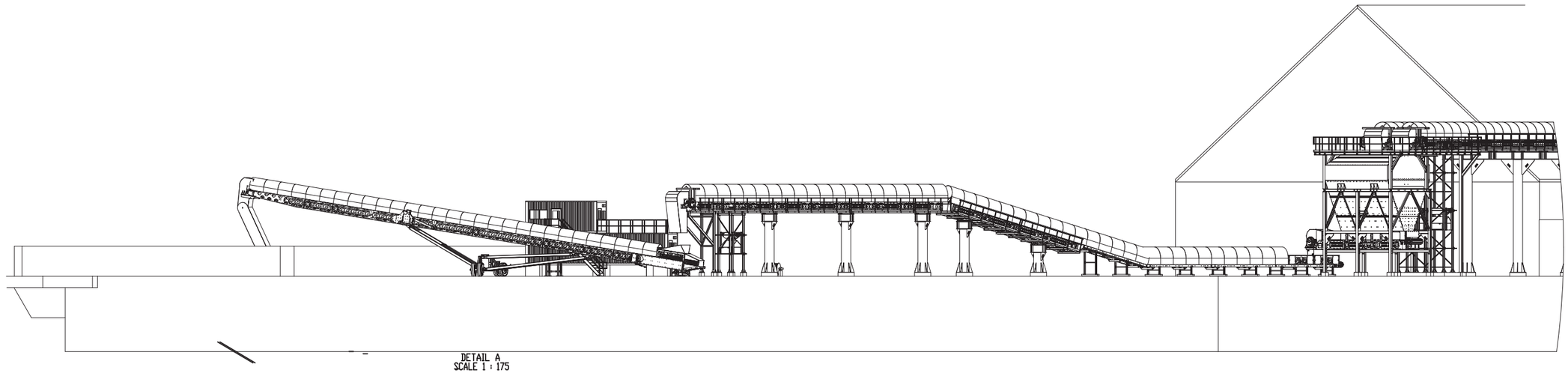
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FRASER SURREY DOCKS LP
PACIFIC RIM STEVEDORING
SURREY, B.C.

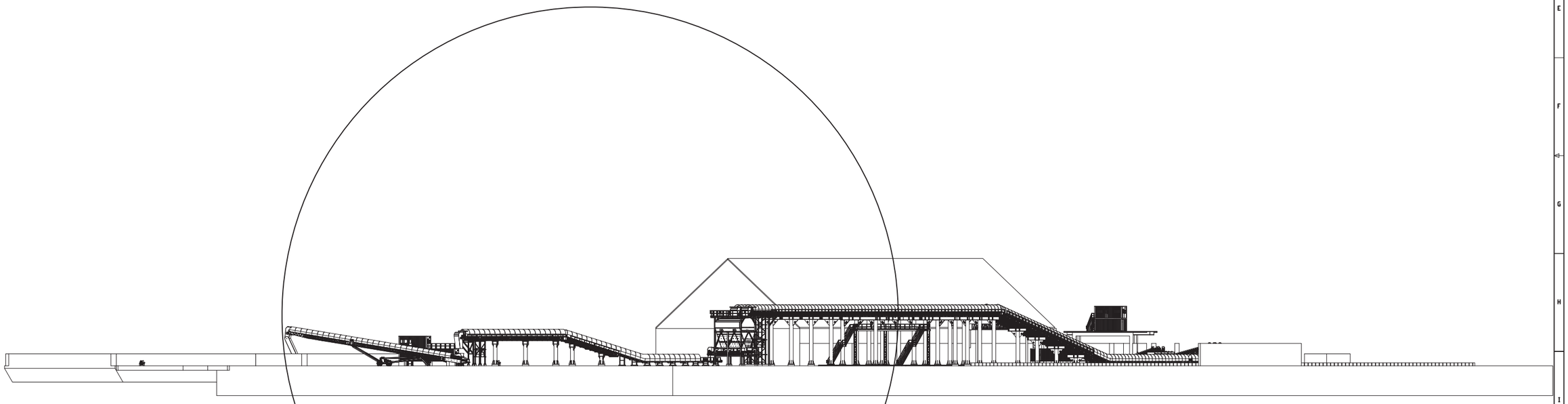
TEMPORARY COAL BARGE LOADING FACILITY SECTIONS

Drawing No. 13024–SK–030F | Rev. P4

Issue	D/M/Y	By	Issued For:	Rev.
D	12/11/13	JRM	PERMIT APPLICATION	Rev. P4
C	30/08/13	JRM	PERMIT APPLICATION	Rev. P3
B	10/07/13	JRM	PERMIT APPLICATION	Rev. P2
A	08/05/13	CPL	PERMIT APPLICATION	Rev. P1



DETAIL A
SCALE 1 : 175



(- REQ'D) 1648-FSD-GA-06 May 2013
MARK MK# ON THE PART

FSD-DTB-181013-18

-	See Sheet1	-	-	-
REV.	DESCRIPTION	DATE	REVISED BY	APPROVED BY

REVISIONS

PAINTING PROCEDURE AND SPECIFICATIONS:

THIRD ANGLE PROJECTION

GENERAL NOTES:
1) KREATOR EQUIPMENT ENGINEERING DEPARTMENT MUST BE NOTIFIED IN WRITING OF ANY CHANGES OR DISCREPANCIES IN DIMENSIONS OR MATERIALS AS DESCRIBED IN THIS DOCUMENT
2) ALL WELDING PROCEDURES WILL CONFORM TO CWB 47.1 DIVISION 1 AND 2
3) ALL WELDS TO BE 3/16" CONTINUOUS FILLET OR BUTT WELDS U.O.S.
4) DIMENSION TOLERANCES UNLESS NOTED: ± 1/16" ON CONNECTION POINTS AND 1/8" ON FABRICATED COMPONENTS.
5) DECIMAL DIMENSION TOLERANCES UNLESS NOTED:
(2) PLACE DECIMAL (.00) USE ± 0.025"
(3) PLACE DECIMAL (.000) USE ± 0.0125"

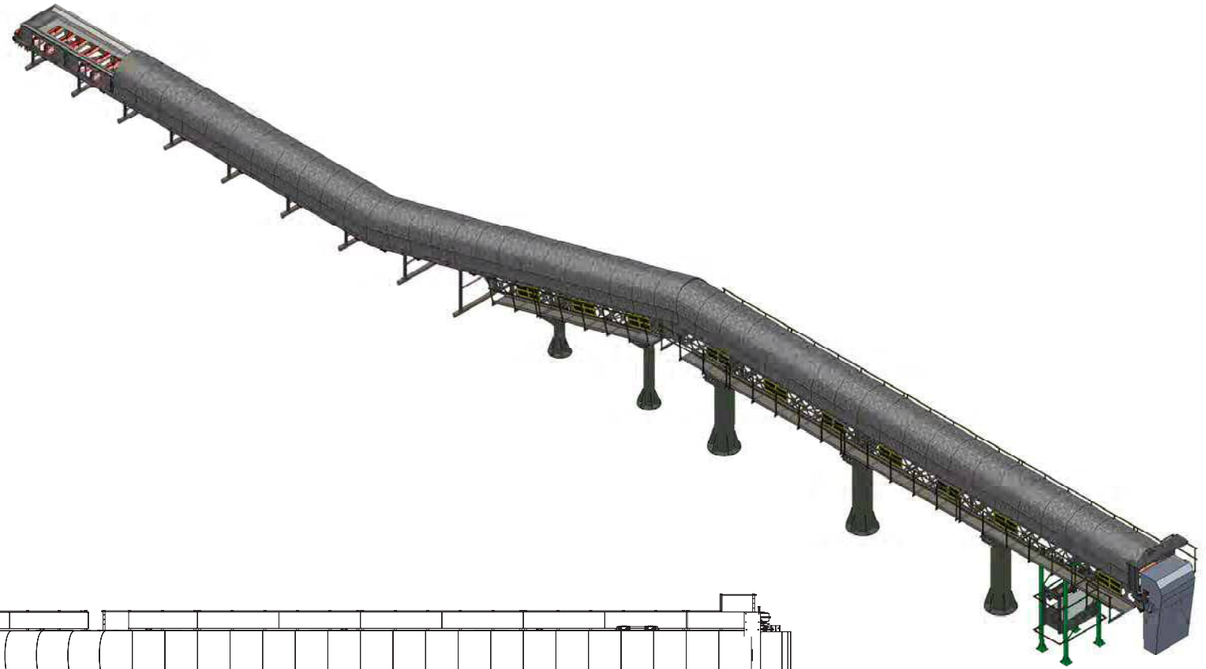
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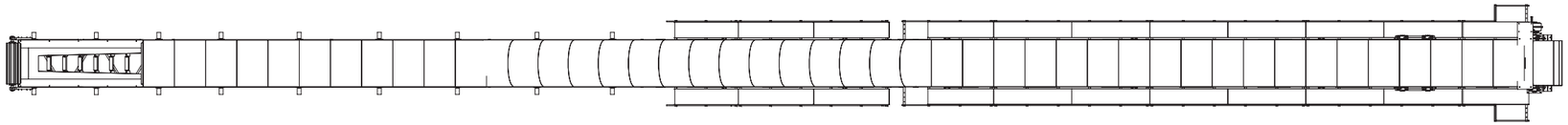
KREATOR EQUIPMENT & SERVICES INC.

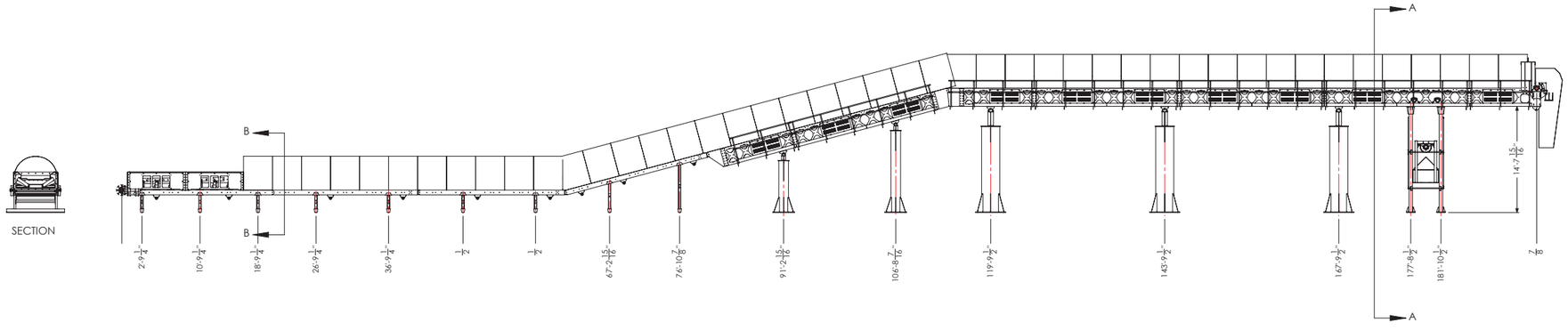
EQUIPMENT: FSD-GA | DO NOT SCALE DRAWING
PROJECT: FSD-COAL LOADING SYSTEM
CLIENT: LAFARGE-FSD-BC
TITLE: 1648-FSD-GA-06 May 2013

WO#: 1648	DWN: K.G.	CHK'D:	DWG No.	REV.	SHEET	SIZE
VERS#: 6322156185.25	SCALE: 1:400	APP'D:	1648-FSD-GA-06 May 2013	C	3 OF 3	A1
	DATE: 03/06/2013	REV'D: K.G.				

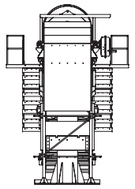
ISSUED TO:	ISSUED DATE:	COMPLETION DATE:

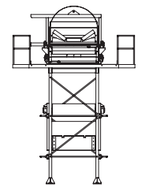






SECTION





SECTION

REV.	DESCRIPTION	DATE	
A.		04/23/2013	J.G.

REVISIONS

PROJECTION

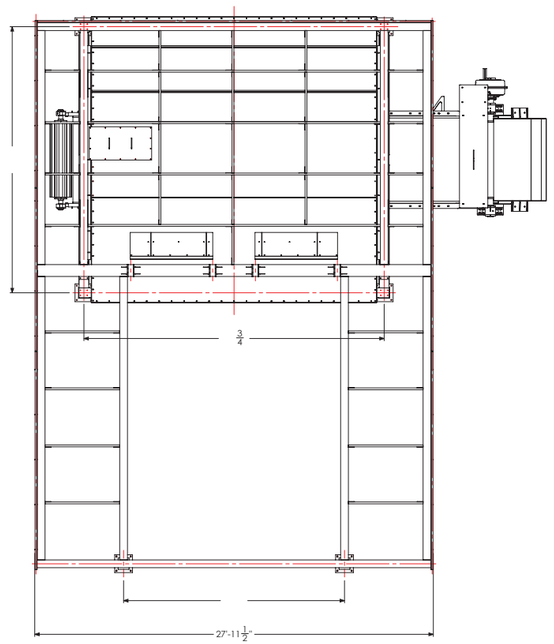
DOCUMENT

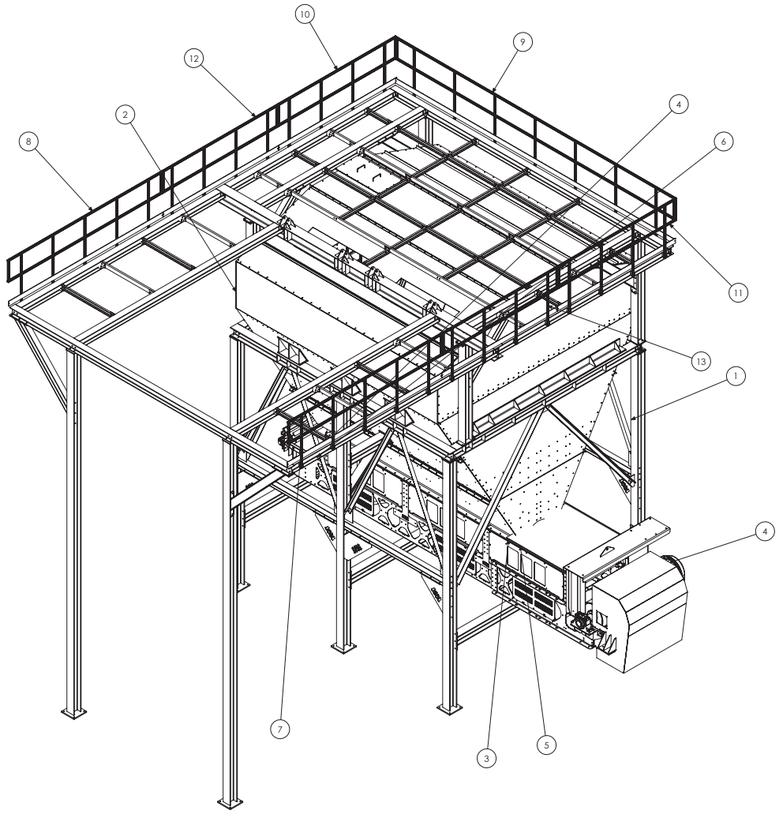
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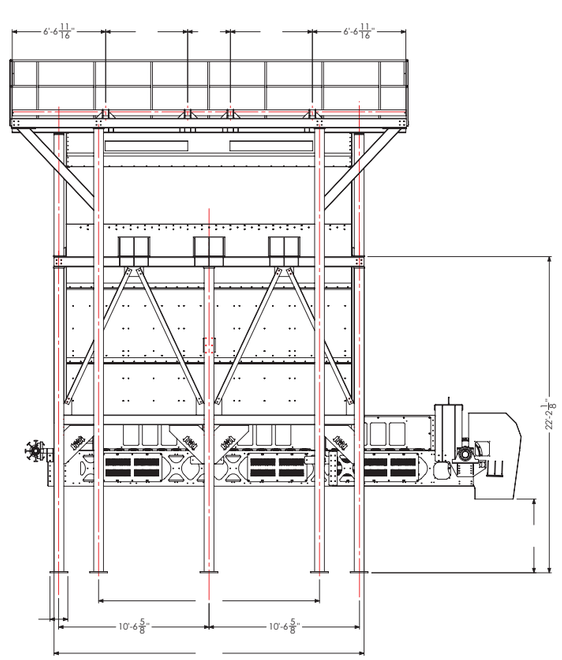
FSD-DTB-181013-19

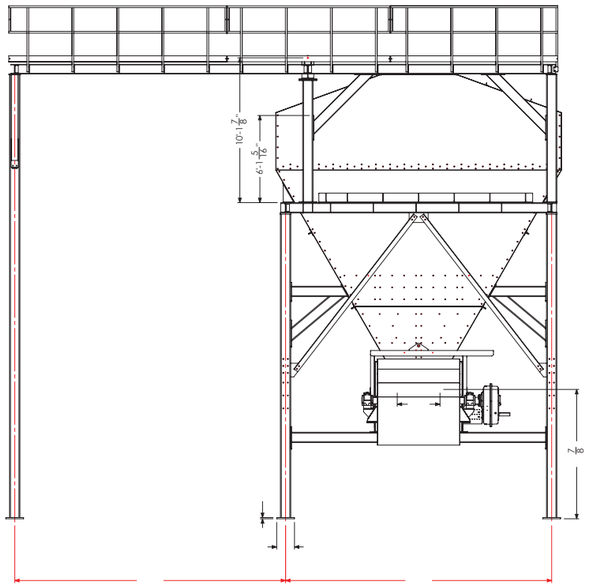
CLIENT: LAFARGE-FSD-BC		EQUIPMENT: CC2	
		PROJECT:	
		TITLE: 1648-CC3-GA	
WO#: 1648	DWN: K.G.	CHK'D:	REV: A
WEIGHT: 67553.21Lb	SCALE: 1:105	APP'D:	SHEET
	DATE: 12/02/2013	DES'D: K.G.	SIZE A1

	DESCRIPTION	QTY.	WEIGHT	
1		1	37230.83	37231
2	1648-2020-01-01-HOPPER	1	28364.85	28365
3	1648-KH-2020-03-G1	20	9.27	185
4	1648-CC2-KMC-0830-60-CC	1	15115.64	15116
5	1648-CC2-KMC-0860-KH-03	1	145.23	145
6	1648-CC2-KMC-0860-KH-04	1	132.78	133
7	1616-C1-KMC-0830-36-MCR-LH	1	191.962	192
8	1616-C1-KMC-0830-36-MCR-LH	1	191.989	192
9	1616-C1-KMC-0830-36-MCR-LH	1	319.156	319
10	1616-C1-KMC-0830-36-MCR-LH	1	150.548	151
11	1616-C1-KMC-0830-36-MCR-LH	1	150.549	151
12	1616-C1-KMC-0830-36-MCR-LH	1	147.991	148
13	1616-C1-KMC-0830-36-MCR-LH	1	147.993	148









REV.	DESCRIPTION	DATE		
A		26/06/2013	K.G.	

REVISIONS

DOCUMENT

PROJECTION

RESERVED.

KREATOR EQUIPMENT & SERVICES INC.

CLIENT: LAFARGE-FSD-BC

EQUIPMENT#

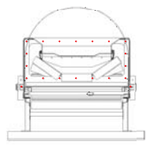
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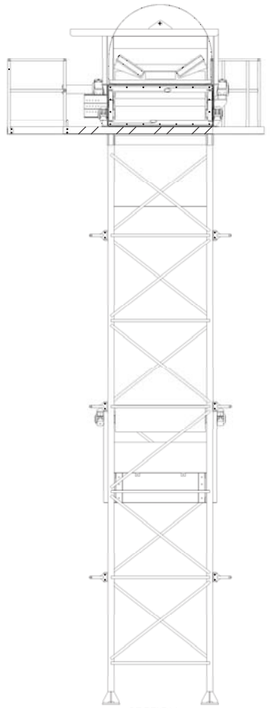
TITLE:

FSD-DTB-181013-20

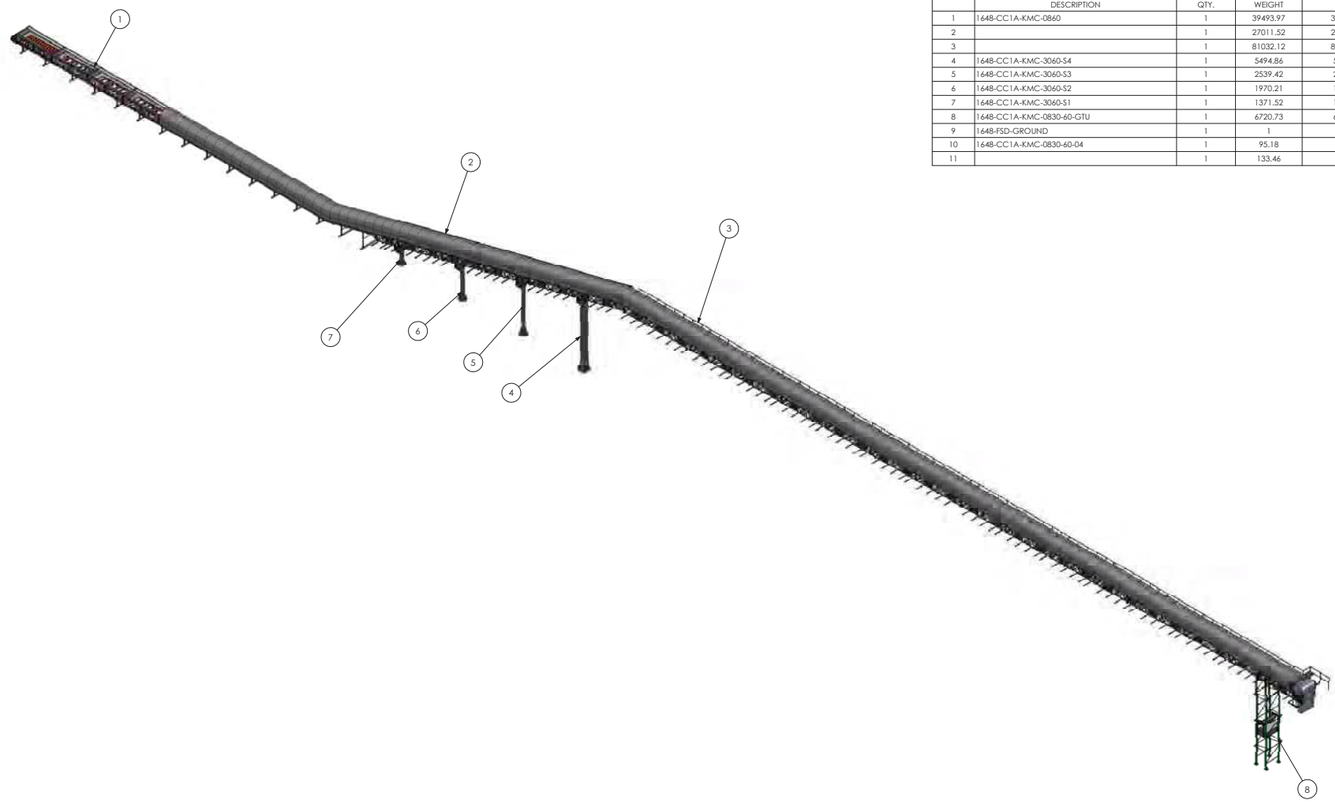
WO#: 1648	Dwn: K.G.	Chk'd:	REV: A	SHEET	SIZE: A1
WEIGHT: 82474.89Lb	SCALE: 1:60	APP'D:			
	DATE: 13/12/2012	DES'r: K.G.			

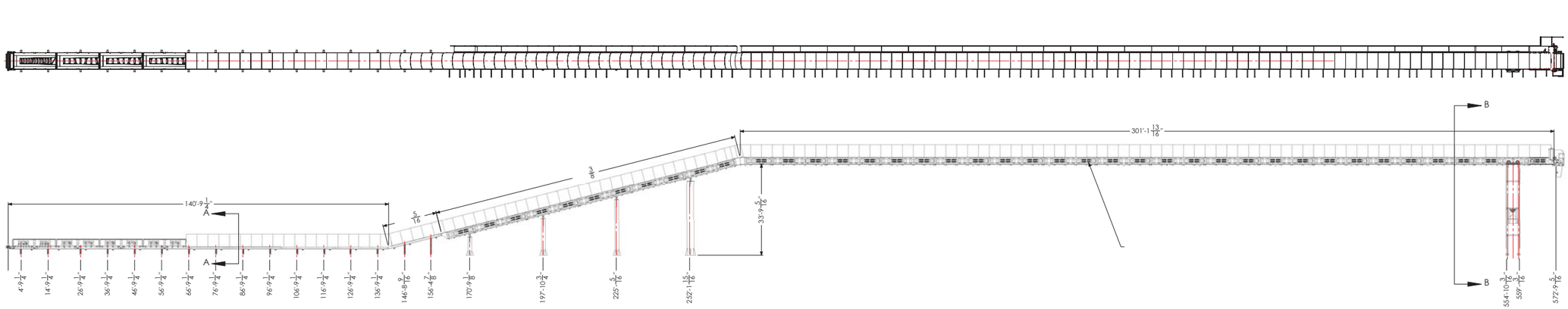
	DESCRIPTION	QTY.	WEIGHT	
1	1648-CC1A-KMC-0860	1	39493.97	39494
2		1	27011.52	27012
3		1	81032.12	81032
4	1648-CC1A-KMC-3060-S4	1	5494.86	5495
5	1648-CC1A-KMC-3060-S3	1	2539.42	2539
6	1648-CC1A-KMC-3060-S2	1	1970.21	1970
7	1648-CC1A-KMC-3060-S1	1	1371.52	1372
8	1648-CC1A-KMC-0830-60-GTU	1	6720.73	6721
9	1648-FSD-GROUND	1	1	1
10	1648-CC1A-KMC-0830-60-04	1	95.18	95
11		1	133.46	133





SECTION
SCALE





B		22/04/2013	J.G.	
A		15/01/2013	K.G.	
REV.	DESCRIPTION	DATE		

REVISIONS

PROJECTION

DOCUMENT

RESERVED.

KREATOR EQUIPMENT & SERVICES INC.

EQUIPMENT: CC1-KMC-0830-60

PROJECT:

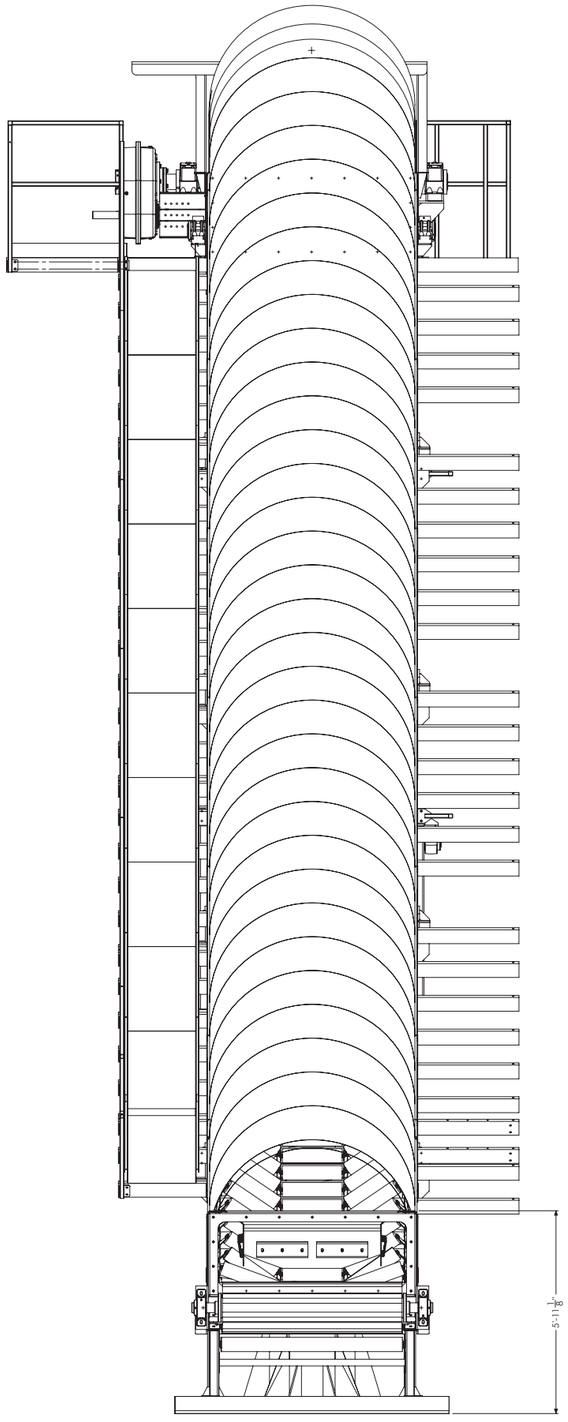
CLIENT: LAFARGE-FSD-BC

TITLE: 1648-CC1A-KMC-0830-60

WO#: 1648 | DWN: K.G. | CHK'D: | REV: B | SHEET: | SIZE: A1

WEIGHT: 89924759.40LBS | SCALE: 1:240 | APP'D: | DATE: 15/01/2013 | DES'D: K.G.

FSD-DTB-181013-21



FSD-DTB-181013-22

REV.	DESCRIPTION	DATE		
-		-	-	-

REVISIONS

PROJECTION

DOCUMENT

RESERVED.

KREATOR EQUIPMENT & SERVICES INC.

EQUIPMENT: CC1-KMC-0830-60

PROJECT:

CLIENT: LAFARGE-FSD-BC

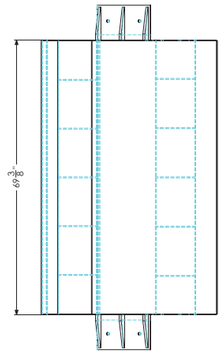
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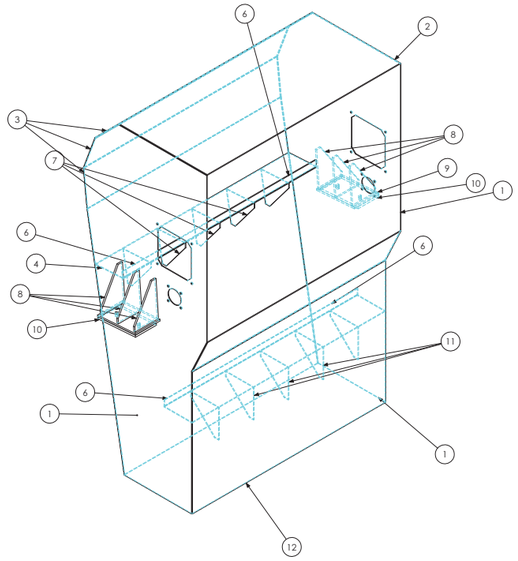
WO#: 1648 DWN: K.G. CHK'D:

WEIGHT: 89924759.40LB SCALE: 1:25 APP'D:

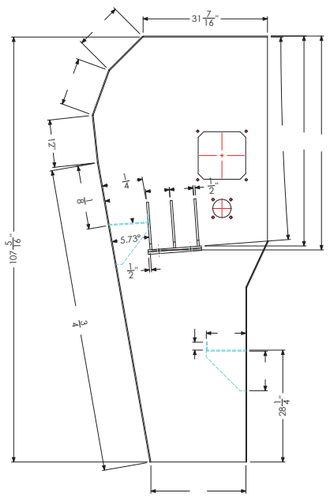
DATE: 15/01/2013 DES'D: K.G.

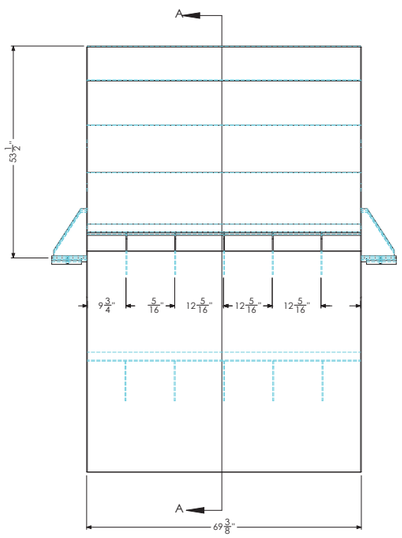
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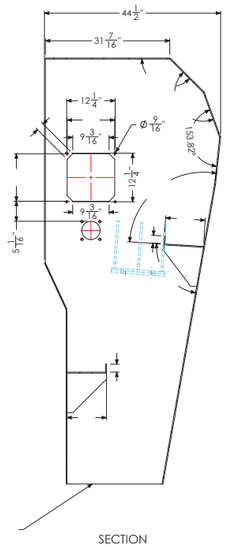




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2		1	152.68
3		3	58.33
4		2	48.61
5		1	373.20
6		2	9.72
7		5	4.42
8		6	9.02
9		2	16.66
10		2	17.70
11		5	4.50
12		1	207.80







SECTION

REV.	DESCRIPTION	DATE		
B		3/12/2012	K.G.	
A		3/12/2012	K.G.	

REVISIONS

PROJECTION

DOCUMENT

RESERVED.

FSD-DTB-181013-23

KREATOR EQUIPMENT & SERVICES INC.

EQUIPMENT#

PROJECT: FONTHILL-CHUTES

CLIENT: LAFARGE-FONTHILL-ON

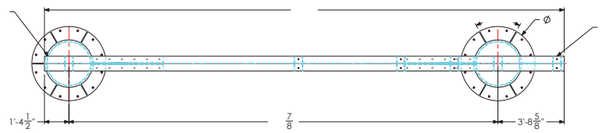
DRG.: 1648-CC1A-0836-CHUTE

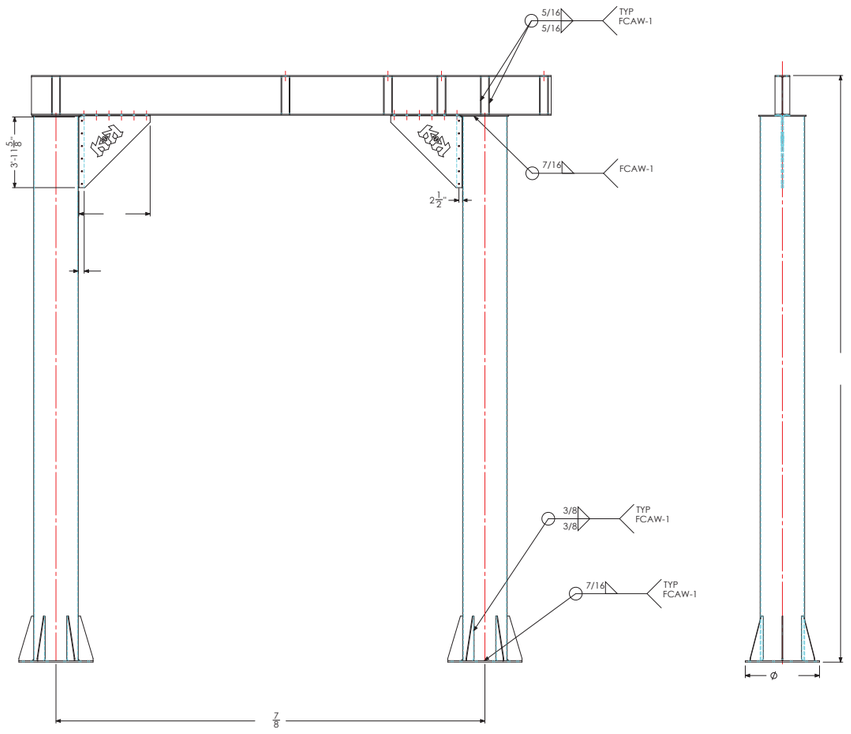
WO#: 1616 | DWN: K.G. | CHK'D: | REV.: B | SHEET: | SIZE: A1

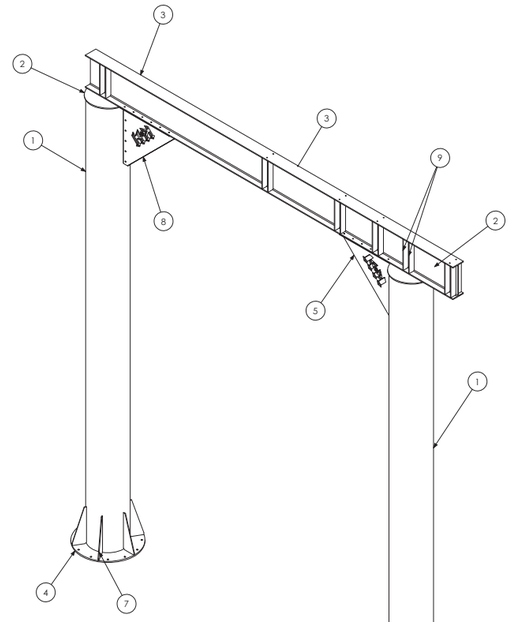
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DATE: 05/04/2013 | DES'D: K.G.

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2				2		169.97
3	W27x84	0.00	0.00	1	29'-2"	2438.81
4				2		549.94
5				2		149.31
6				2		39.58
7				12		25.13
8				2		149.31
9				24		16.97







FSD-DTB-181013-24

REV.	DESCRIPTION	DATE		
B		16/04/2013	K.G.	
A		16/04/2013	K.G.	

REVISIONS

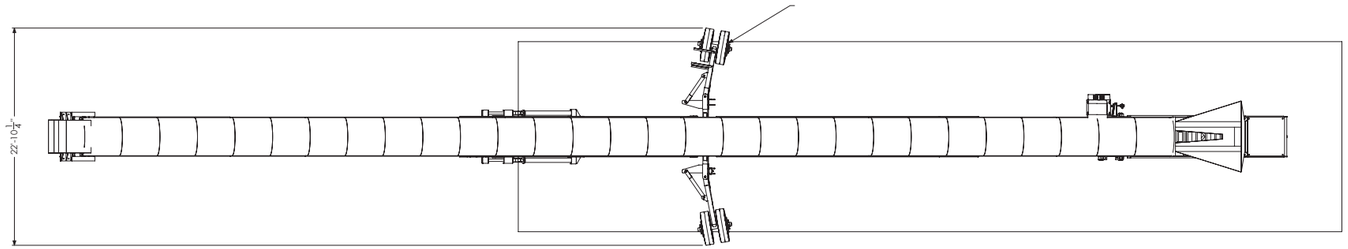
PROJECTION

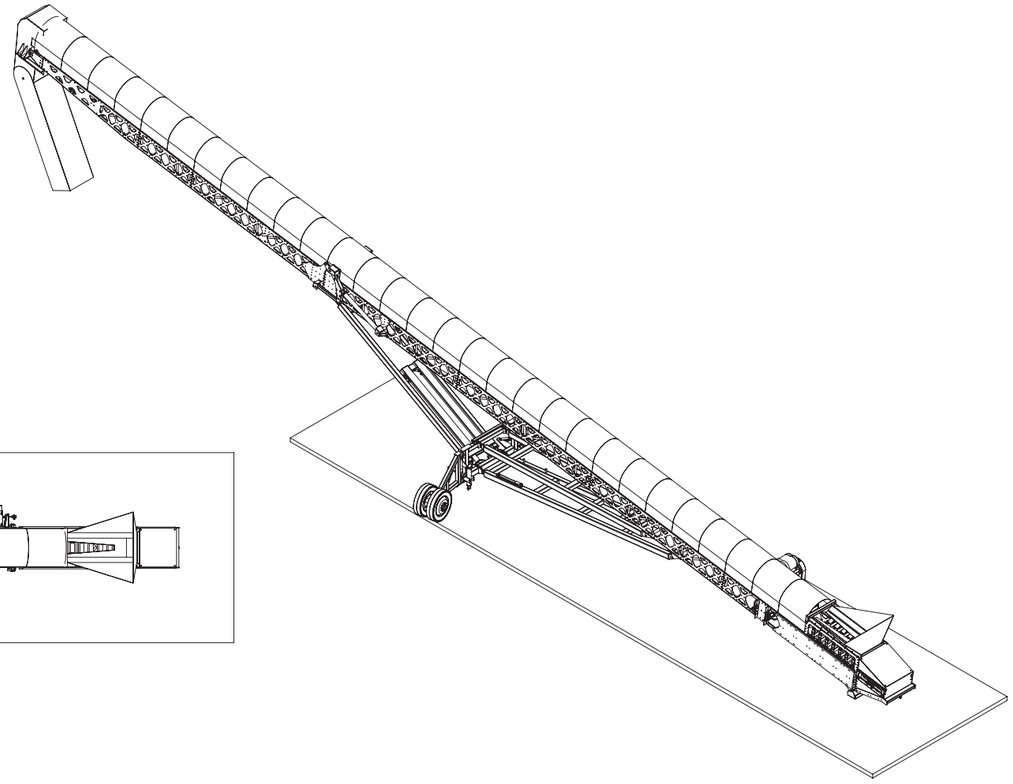
DOCUMENT

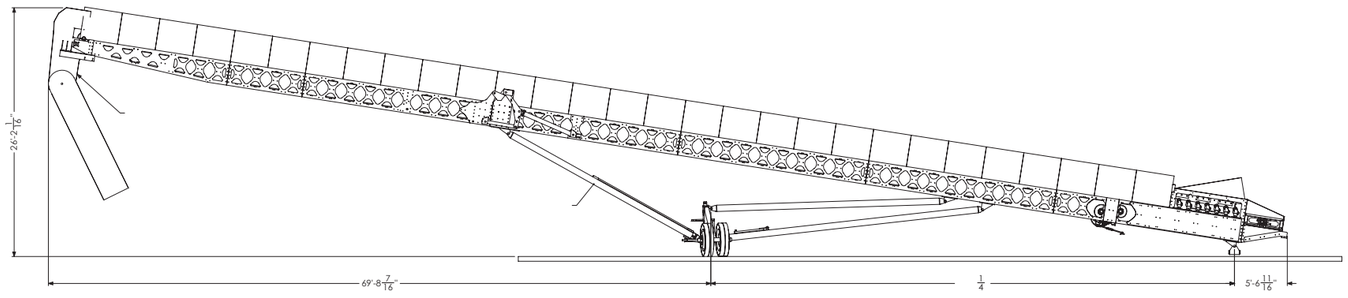
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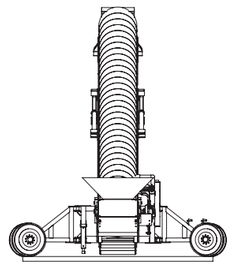
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PROJECT:
CLIENT:
TITLE: 1648-CC1A-KMC-3060-S13

WO#: 1648
WEIGHT: 14836.89Lb
DWN: K.G.
SCALE: 1:48
DATE: 16/04/2013
CHK'D:
APP'D:
DES'D: K.G.
REV: B
SHEET:
SIZE: A1









REV.	DESCRIPTION	DATE		
A		04/24/2013	J.G.	

REVISIONS

PROJECTION

DOCUMENT

RESERVED.

CLIENT: LAFARGE-FSD-BC

EQUIPMENT#

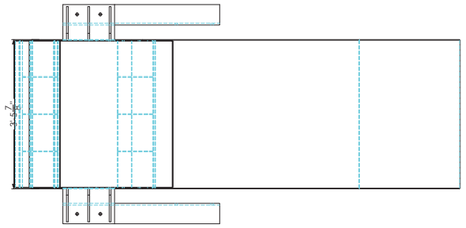
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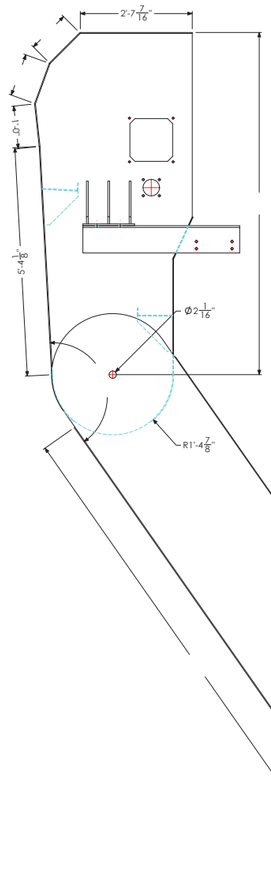
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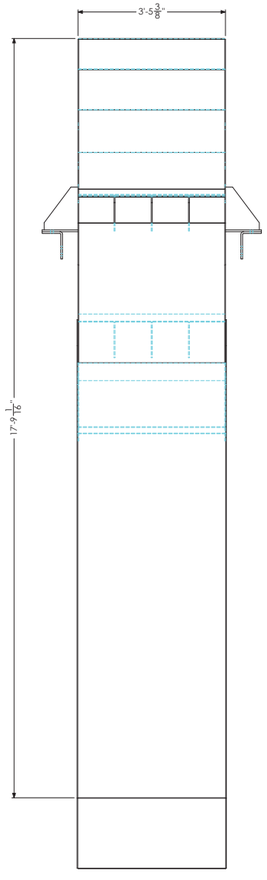
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	DATE: 04/24/2013	DES'D: K.G.			

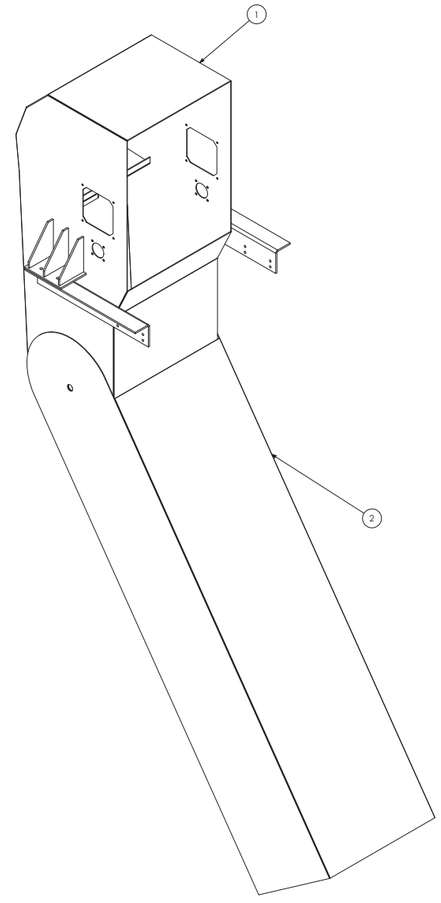
FSD-DTB-181013-25

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A		02-05-2013	K.G.	
REV.	DESCRIPTION	DATE		

REVISIONS

PROJECTION

DOCUMENT

RESERVED.

KREATOR EQUIPMENT & SERVICES INC.

EQUIPMENT#:

PROJECT:

CLIENT: LAFARGE-FSD-GA

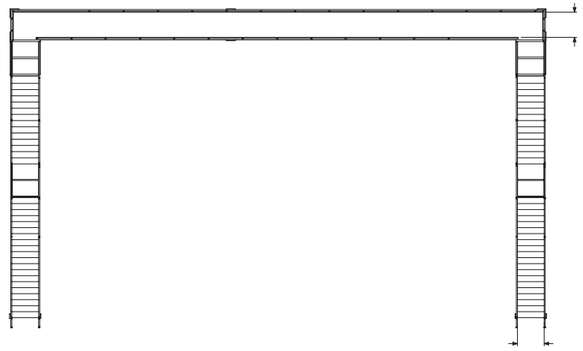
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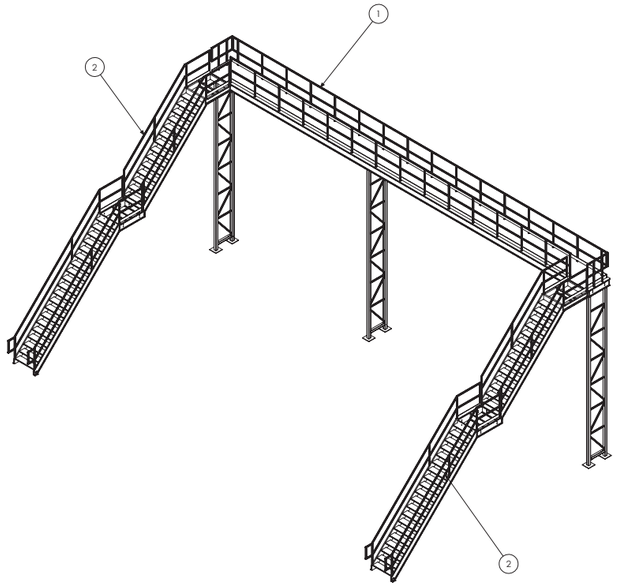
WO# 1648 | DWN: K.G. | CHK'D: | REV: A | SHEET | SIZE A1

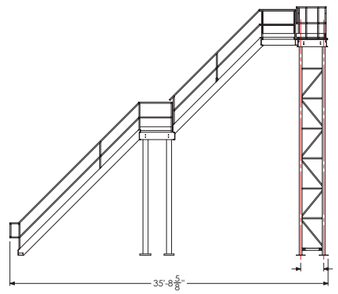
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FSD-DTB-181013-26

	DESCRIPTION	QTY.	WEIGHT	
1		1	15172.76	15173
2		2	2154.12	4308







FSD-DTB-181013-27

REV.	DESCRIPTION	DATE		
A		07-05-2013	K.G.	

REVISIONS

PROJECTION

DOCUMENT

RESERVED.

KREATOR EQUIPMENT & SERVICES INC.

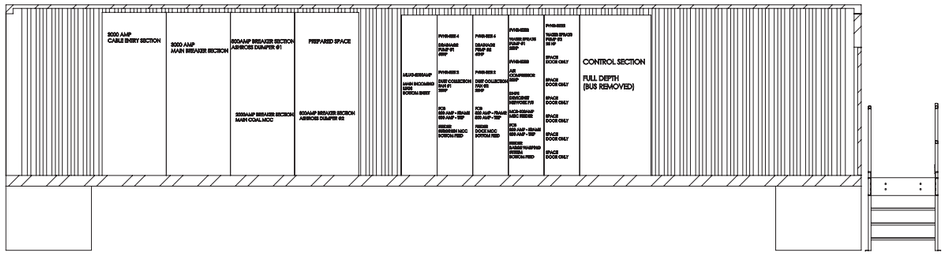
EQUIPMENT: CROSSOVER

PROJECT:

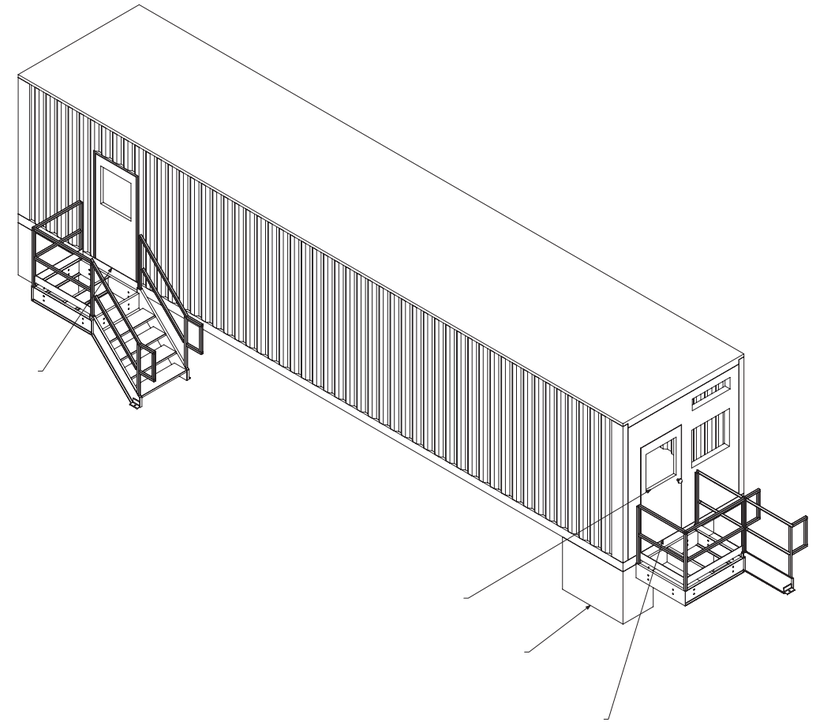
CLIENT: LAFARGE-FSD-BC

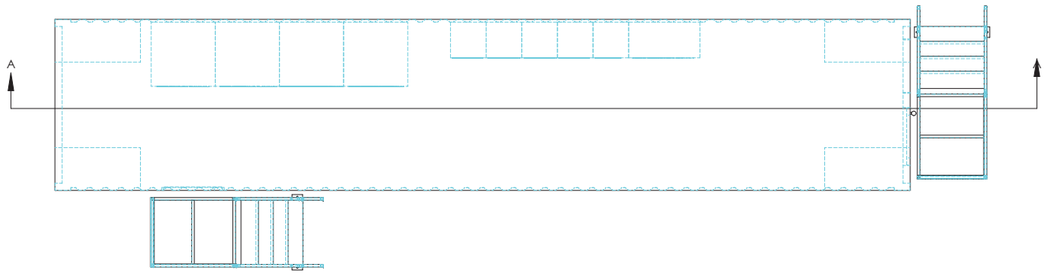
TITLE: 1648-FSD-Crossover-Assy

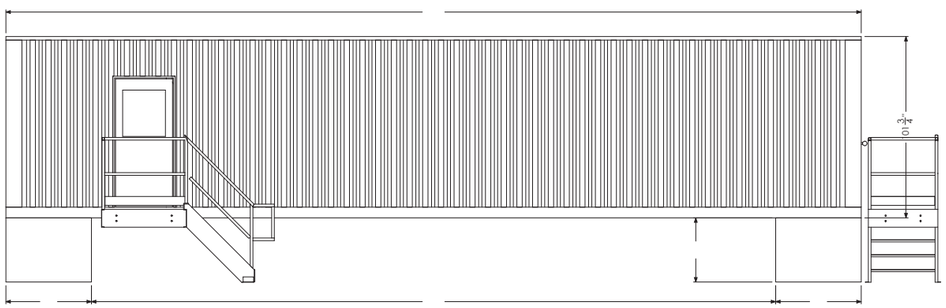
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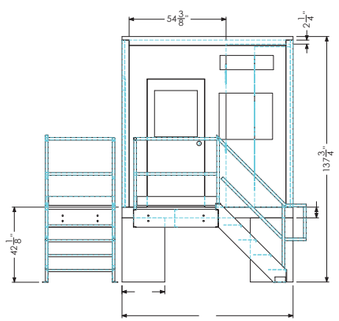


SECTION









C		29/01/2013	J.G.	
B		21/01/2013	J.G.	
A		12/12	J.G.	
REV.	DESCRIPTION	DATE		

REVISIONS

PROJECTION

DOCUMENT

RESERVED.

FSD-DTB-181013-28

CLIENT: LAFARGE-FSD-BC

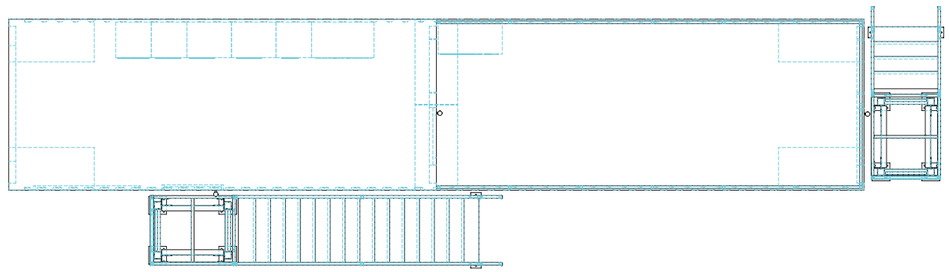
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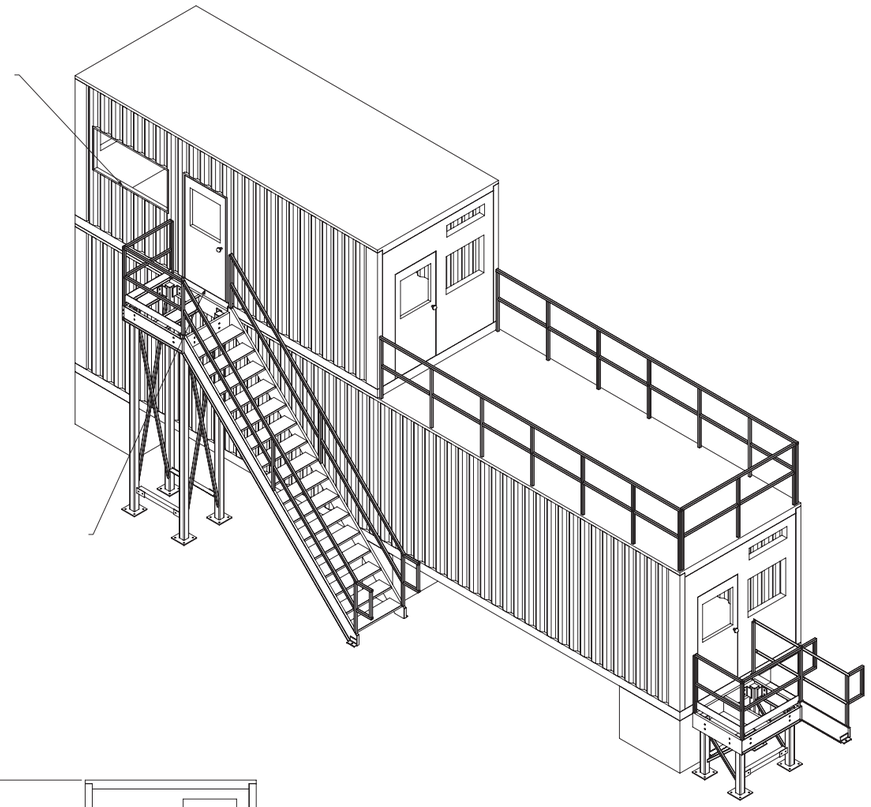
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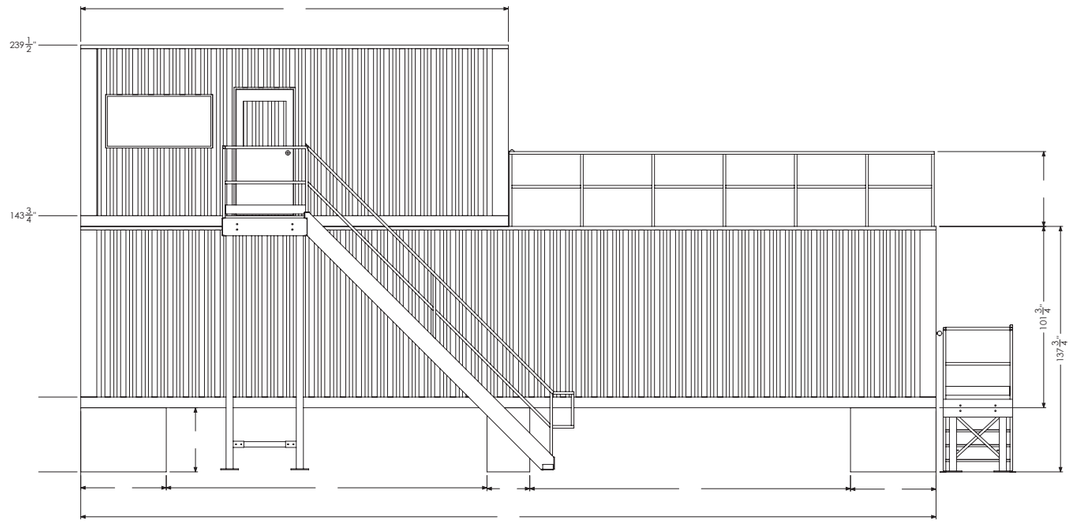
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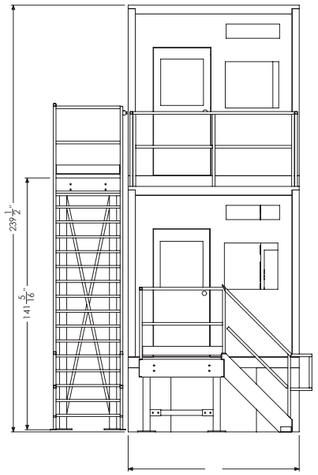
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DWN: J.G.
SCALE: 1:40
DATE: 12/12/2012
CHK'D:
APP'D:
DES'D: J.G.

REV: C
SHEET:
SIZE: A1









FSD-DTB-181013-29

REV.	DESCRIPTION	DATE		
A		12/17/2012	J.G.	

REVISIONS

PROJECTION

DOCUMENT

RESERVED.

CLIENT: LAFARGE-FSD-BC

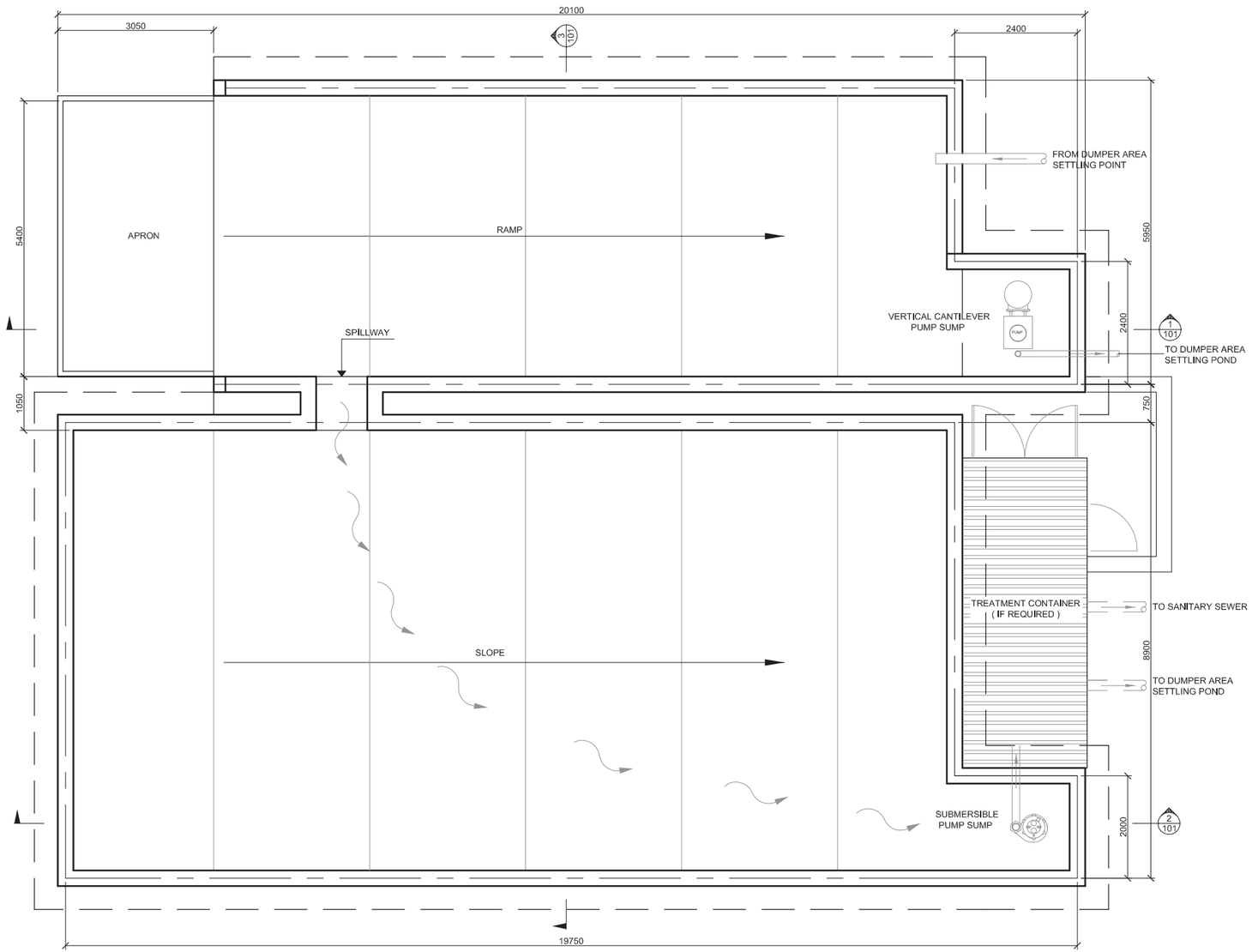
EQUIPMENT# 1648

PROJECT:

TITLE:

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	DATE: 12/17/2012	DES'D:

REV.	SHEET	SIZE
A		A1



PLAN
SCALE 1:50

FSD-DTB-181013-30

Filename: Z:\Omni Projects\2113 Fraser Surrey Docks – Dust Suppression\Omni Drawings\2113_Loader Area Settling Pond.dwg – 100
Last Saved: Sep. 05/13 9:13am Plotted: Sep. 10/13

REFERENCE DRAWINGS

DRAWING NUMBER	REV.

NO.	BY	DATE	DESCRIPTION
P1	JW	JUJ015/13	ISSUED FOR CLIENT REVIEW

REVISION

SEAL:

DATE:

CONSULTANT:

Omni ENGINEERING INC.
#206 E. HASTINGS STREET
VANCOUVER, BC V5K 2A9
PH: 604 - 298 - 0508
FAX: 604 - 298 - 0536

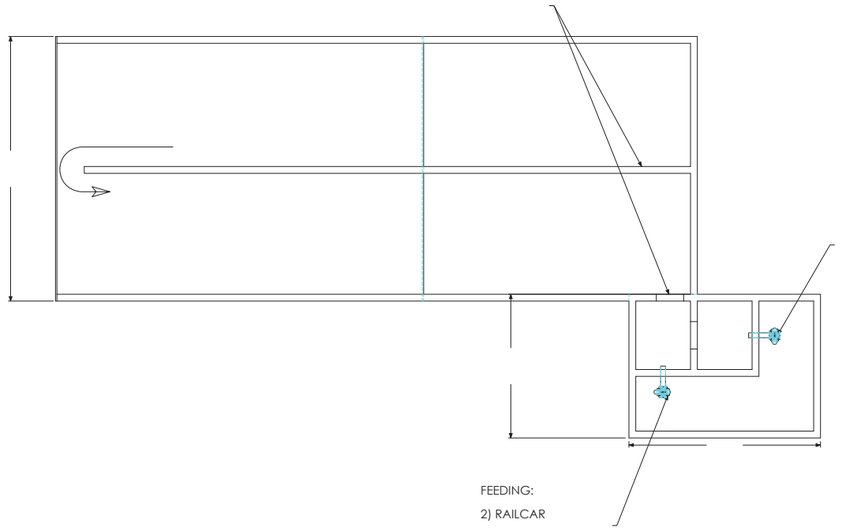
CLIENT:

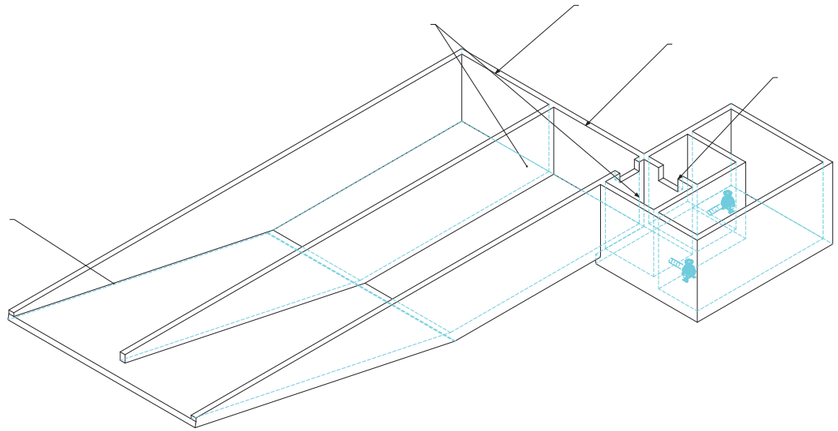
FRASER SURREY DOCKS LP
Pacific Rim Stevedoring Ltd.

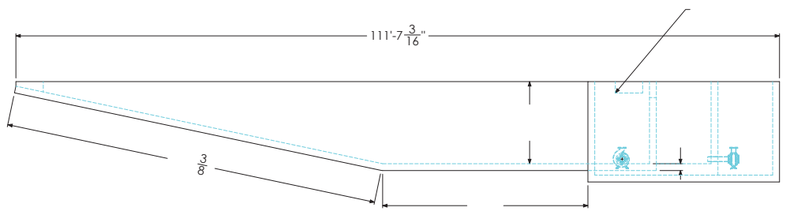
PROJECT:
FRASER SURREY DOCKS LP
PROPOSED COAL LOADOUT FACILITY
WATER MANAGEMENT SYSTEM

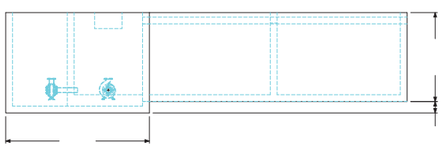
DRAWING TITLE:
LOADER AREA SETTLING POND
GENERAL ARRANGEMENT

ENGINEER: DS	DATE: JUL16/13
DESIGN BY: DS	SCALE: AS SHOWN
DRAWN BY: JW	ACAD FILE NO: 2113
DRAWING NUMBER: 2113–100	REVISION NUMBER: P1









REV.	DESCRIPTION	DATE		
A.		26/06/2013	K.G.	

REVISIONS

PROJECTION

DOCUMENT

RESERVED.

KREATOR EQUIPMENT & SERVICES INC.

EQUIPMENT#:
PROJECT:
CLIENT:
TITLE:

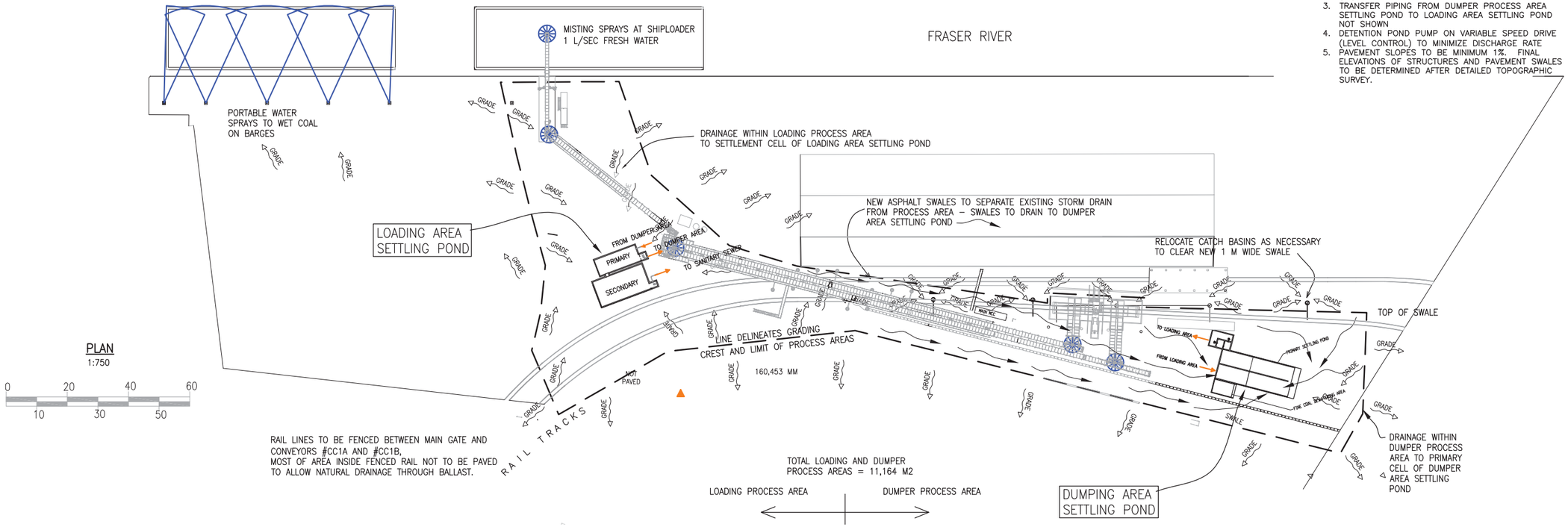
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APP'D:
DES'D:
REV.: A
SHEET:
SIZE: A1

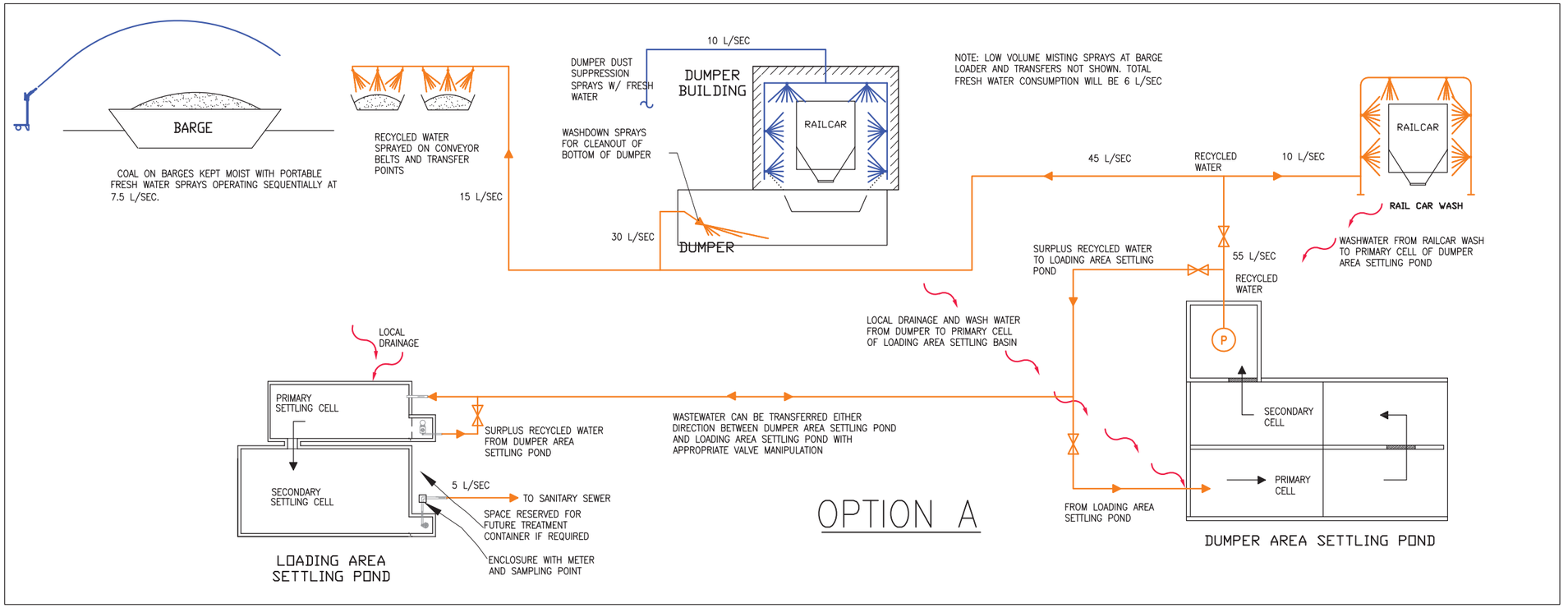
FSD-DTB-181013-31

drawn in inches

NOTES

1. DRAWING IS FOR CONCEPTUAL DESIGN ONLY
2. RECYCLE PIPING AT DUMPER PROCESS AREA NOT SHOWN
3. TRANSFER PIPING FROM DUMPER PROCESS AREA SETTLING POND TO LOADING AREA SETTLING POND NOT SHOWN
4. DETENTION POND PUMP ON VARIABLE SPEED DRIVE (LEVEL CONTROL) TO MINIMIZE DISCHARGE RATE
5. PAVEMENT SLOPES TO BE MINIMUM 1%. FINAL ELEVATIONS OF STRUCTURES AND PAVEMENT SWALES TO BE DETERMINED AFTER DETAILED TOPOGRAPHIC SURVEY.





FSD-DTB-181013-32

Filename: Z:\Omni Projects\2113 Fraser Surrey Docks – Dust Suppression\Omni Drawings\2113 Water Management Schematics.dwg – SK002
Last Saved: Oct. 15/13 8:37am Plotted: Oct. 15/13

REFERENCE DRAWINGS

DRAWING NUMBER	REV.

NO.	BY	DATE	DESCRIPTION
P5	DS	OCT14/13	DISCHARGE RATE REDUCED
P4	DS	SEP03/13	STOCKPILE DELETED
P3	DS	JUN19/13	RIVER WATER DELETED
P2	DS	JUN05/13	SCHEMATIC ADDED
P1	CV	MAY06/13	ISSUED FOR REVIEW

REVISION

SEAL:

DATE:

CONSULTANT:

Omni ENGINEERING INC.
#206 E. HASTINGS STREET
VANCOUVER, BC V5K 2A9
PH: 604 · 298 · 0508
FAX: 604 · 298 · 0536

CLIENT:

FRASER SURREY DOCKS LP
Pacific Rim Stevedoring Ltd.

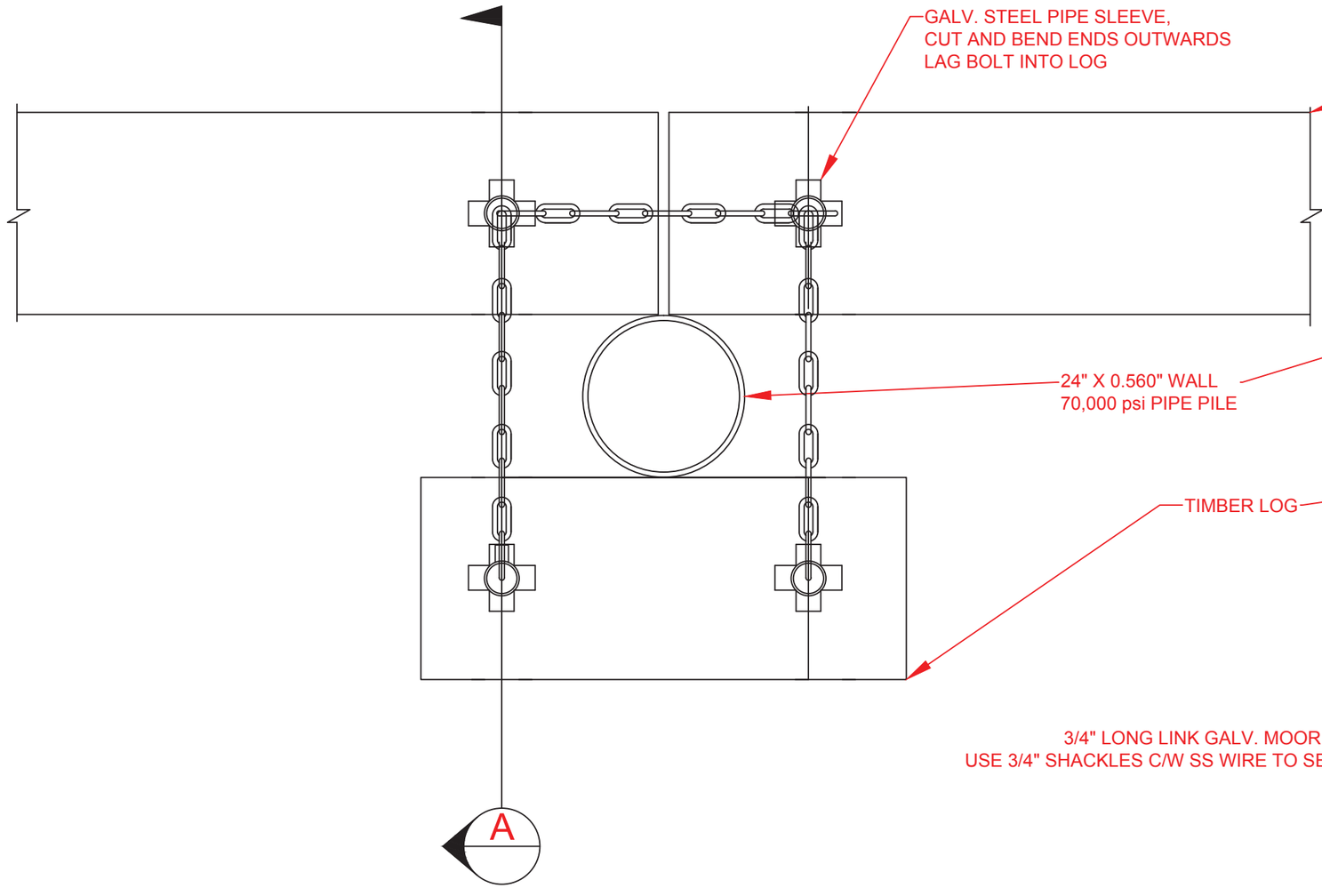
PROJECT:

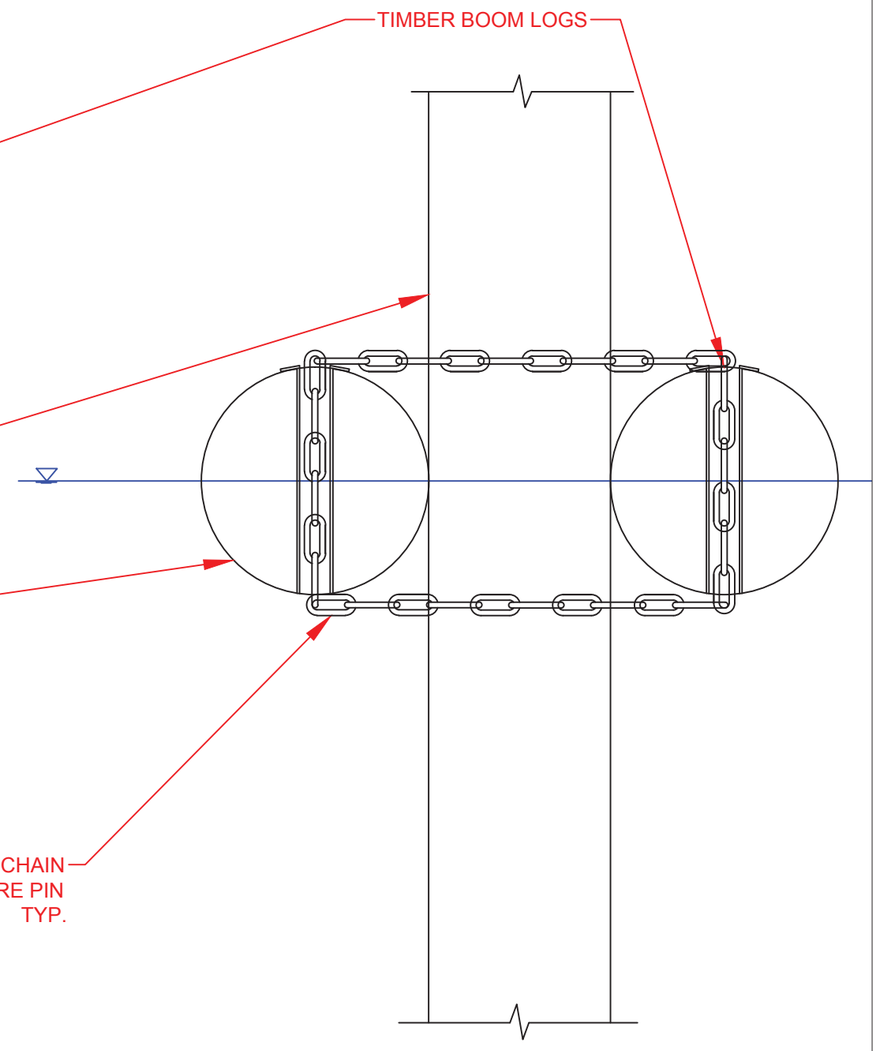
FRASER SURREY DOCKS LP
PROPOSED COAL LOADOUT FACILITY
WATER MANAGEMENT SYSTEM

DRAWING TITLE:

GENERAL ARRANGEMENT – OPTION A
DISCHARGE TO SANITARY SEWER

ENGINEER:	DS	DATE:	JUN13/13
DESIGN BY:	DS	SCALE:	AS SHOWN
DRAWN BY:	DS	ACAD FILE NO:	2113
DRAWING NUMBER:	2113–SK002	REVISION NUMBER:	P5





BOOM (FENDER) LOG DESIGN: PLAN VIEW

BOOM (FENDER) LOG DESIGN: SECTION A

FSD-DTB-181013-33

	DRAWING DESCRIPTION: BOOM (FENDER) LOG DESIGN	NOTES: – NOT TO SCALE	CLIENT: PORT METRO VANCOUVER	REV.	DESCRIPTION	DATE	SURVEYED BY:	SURVEY DATE:	FRPD FRASER RIVER PILE & DREDGE (GP) INC.
							DRAWN BY: NL	DATE DRAWN: MAY 22 2013	
							PROCESSED BY:	DRAWING NO.: 002	
							SCALE: NTS	JOB NO.:	