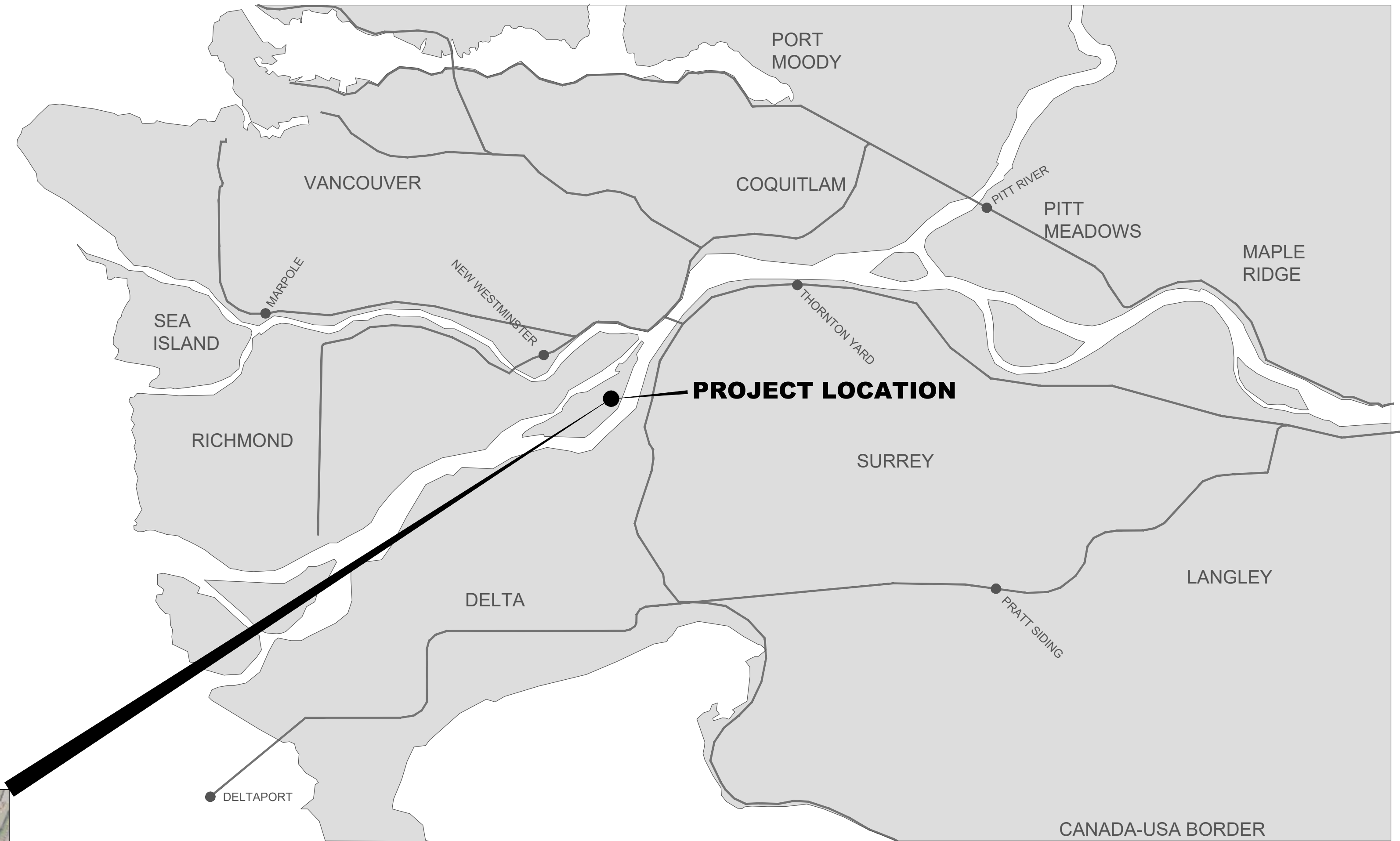


M M

MOTT MACDONALD

MOTT MACDONALD
Suite 1888, Bentall 5
550 Burrard Street
Vancouver, BC, V6C 2B5

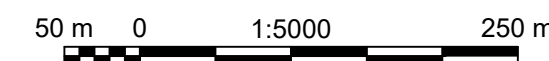
VFPA PROJECT NO. 21-098
MMD PROJECT NO. 514100592
ISSUED FOR PERMIT
DATE: 2023-JUNE-30



SITE LOCATION PLAN
NOT TO SCALE

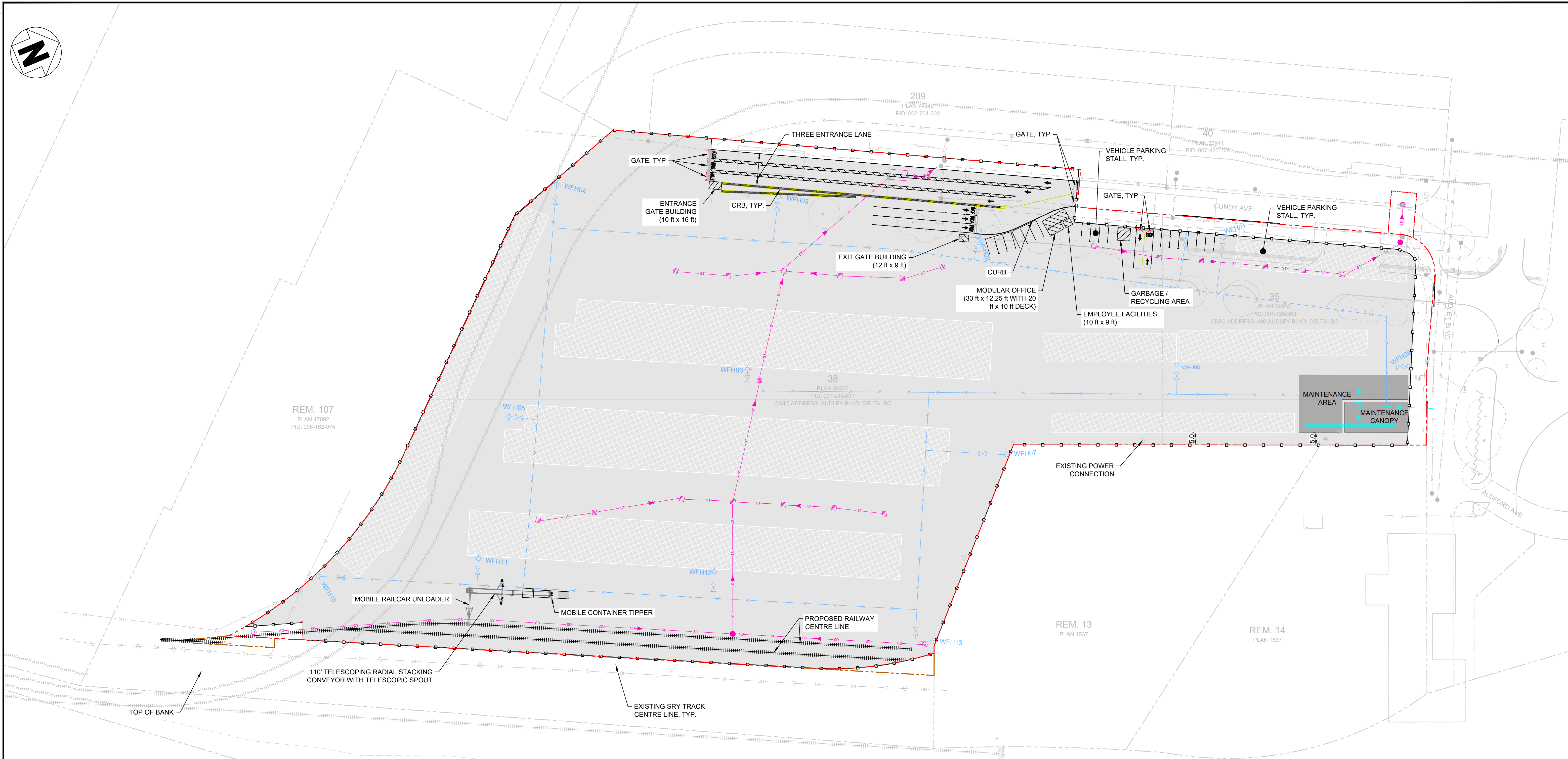
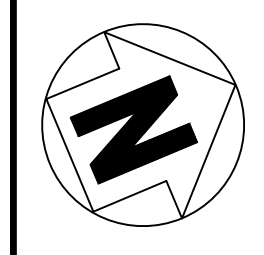


SATELLITE VIEW
SCALE 1:5000



VANCOUVER FRASER PORT AUTHORITY
300 LOW LEVEL ROAD,
NORTH VANCOUVER

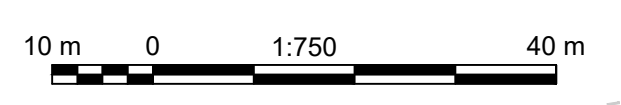
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FOR PERMITTING
NOT FOR CONSTRUCTION

LEGEND:

- PROPOSED WORK LIMIT/ LIMIT OF VFPA JURISDICTION
- PROPOSED WORK LIMIT/ LIMIT OF DELTA JURISDICTION
- PROPOSED WORK LIMIT/ LIMIT OF SRY LAND JURISDICTION
- PROPOSED FENCE
- PROPOSED RAILWAY CENTRE LINE
- PROPOSED STORM PIPE
- PROPOSED SANITARY
- PROPERTY LINE
- PROPOSED WATER LINE
- EX. FENCE
- EX. RAILWAY CENTRE LINE
- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED WATER VALVE
- EX. MONITORING WELL
- PROPOSED SEWER OIL WATER SEPARATOR
- PROPOSED STORM OIL WATER SEPARATOR
- PROPOSED FIRE HYDRANT
- PROPOSED CONTAINER AREA
- PROPOSED PAVING AREA
- EX. BUILDING
- EX. TREE



DATE: 2023/06/30 - 2:15pm
PATH: C:\pwworking\mottmac_at025\10\01\53238\1514\100592\MMD-00-PO-DR-GA-0002.dwg

Ref. No.	REFERENCE

M MOTT MACDONALD
ENGINEERS AND GEOSCIENTISTS BRITISH COLUMBIA
PERMIT TO PRACTICE NUMBER: 1001591

Suite 1888, Bentall 5
550 Burrard Street
Vancouver, BC, V6C 2B5
Canada
T 604.681.4400
W www.mottmac.com

514100592-MMD-00-PO-DR-GA-0002

No.	Date	REVISION	Dr'n	Ch'd
C	2023/06/30	ISSUED FOR PERMIT	CA	AL
B	2023/03/10	ISSUED FOR PERMIT	KW	AL
A	2023/01/31	ISSUED FOR PERMIT	KW	AL

PORT of vancouver
Vancouver Fraser Port Authority
ENGINEERING DEPARTMENT

DESIGN BY	A. L.
DRAWN BY	K. W.
APPROVED	A. K.
DATE	2023-JAN-31
SCALE	AS SHOWN
VFPA SITE	CNVXXX

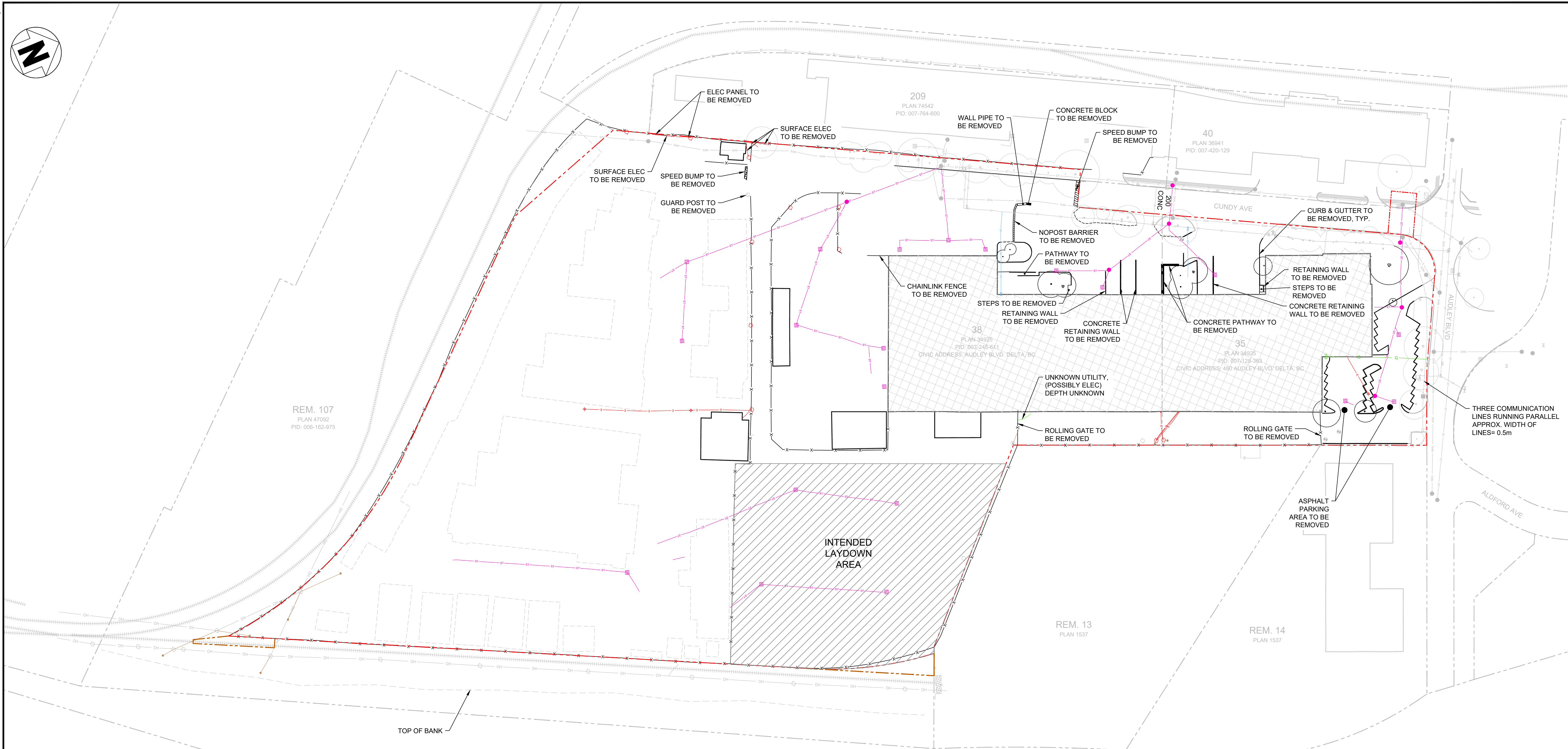
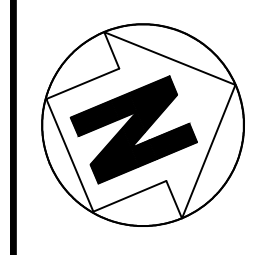
VANCOUVER FRASER PORT AUTHORITY
TDK METRO TERMINALS EXPANSION

PROPOSED SITE PLAN

21-098-GA-002

SHEET 1 of 1 REV C

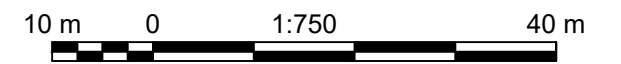
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FOR PERMITTING
NOT FOR CONSTRUCTION

LEGEND:

- PROPOSED WORK LIMIT/ LIMIT OF VFPA JURISDICTION
- - - - PROPOSED WORK LIMIT/ LIMIT OF DELTA JURISDICTION
- PROPOSED WORK LIMIT/ LIMIT OF SRY LAND JURISDICTION
- EX. STORM PIPE TO BE REMOVED
- EX. GAS LINE TO BE REMOVED
- EX. WATER LINE TO BE REMOVED
- UNKNOWN UTILITY TO BE REMOVED
- EX. FENCE TO BE REMOVED
- EX. RAILWAY CENTRE LINE
- EX. ELECTRICAL LINE TO BE REMOVED
- EX. STORM MANHOLE TO BE REMOVED
- ⊗ EX. WATER VALVE TO BE REMOVED
- ⊗ EX. GAS VALVE TO BE REMOVED
- EX. MONITORING WELL
- EX. CATCH BASIN TO BE REMOVED
- EX. GUARD POST TO BE REMOVED
- EX. GUY WIRE TO BE REMOVED
- EX. POWER POLE TO BE REMOVED
- ⊗ EX. LAMP STANDARD TO BE REMOVED
- EX. BUILDING TO BE REMOVED
- INTENDED LAYDOWN AREA
- EX. SHIPPING CONTAINERS TO BE REMOVED
- ⊗ EX. TREE TO BE REMOVED



DATE: 2023/01/27 - 9:20am
PATH: C:\users\w91920\appdata\local\projectwise\work\mottmac\use-pw-15401523281514\100592-MMD-00-PO-DR-GA-0003.dwg

Ref. No.	REFERENCE

M MOTT MACDONALD
 Suite 1888, Bentall 5
 550 Burrard Street
 Vancouver, BC, V6C 2B5
 Canada
 T 604.681.4400
 W www.mottmac.com

ENGINEERS AND GEOSCIENTISTS BRITISH COLUMBIA
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No.	Date	REVISION	Dr'n	Ch'd

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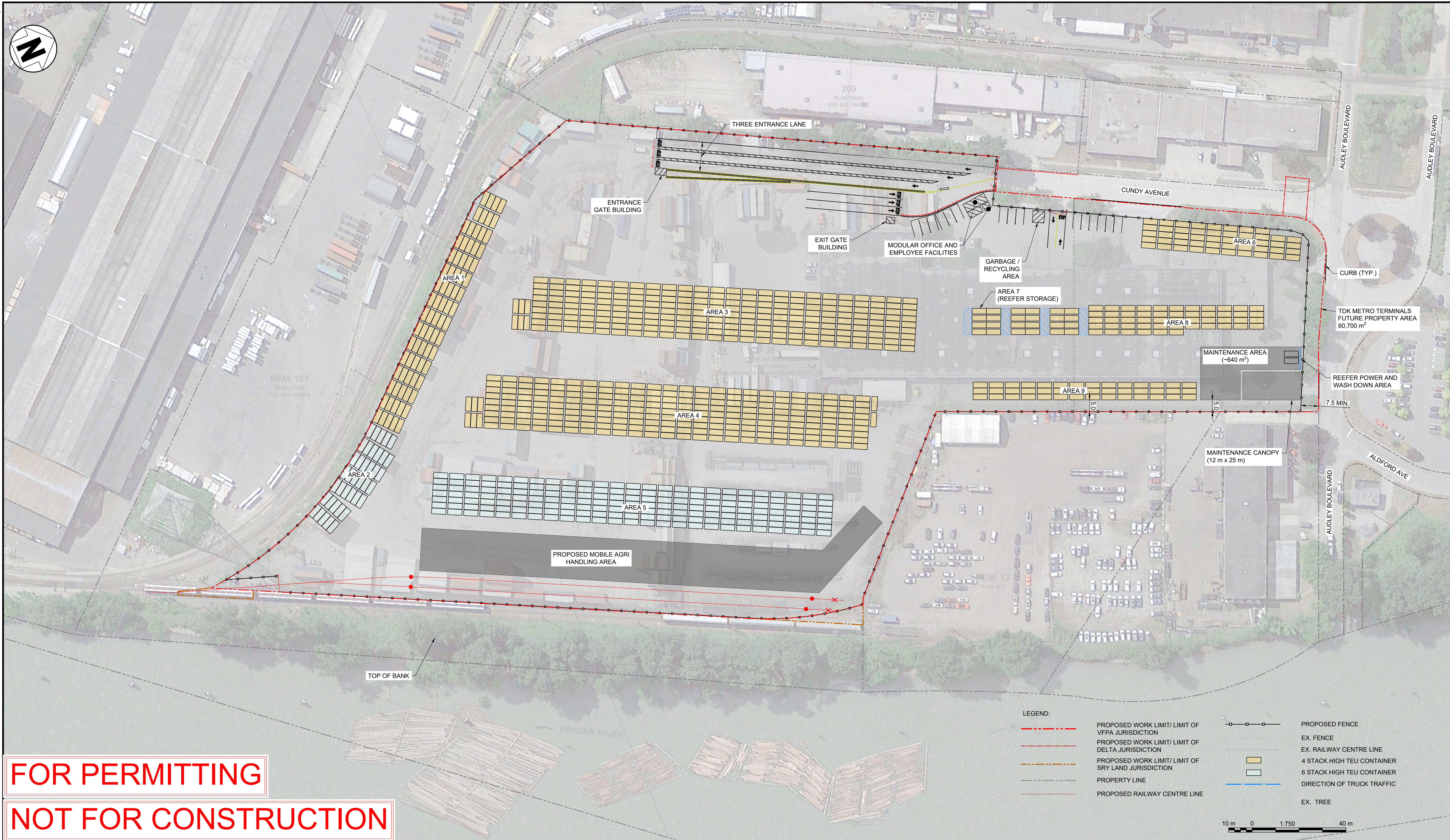
DESIGN BY	A. L.
DRAWN BY	K. W.
APPROVED	A. K.
DATE	2023-JAN-31
SCALE	AS SHOWN
VFPA SITE	CNVXXX

VANCOUVER FRASER PORT AUTHORITY
TDK METRO TERMINALS EXPANSION

DEMOLITION PLAN

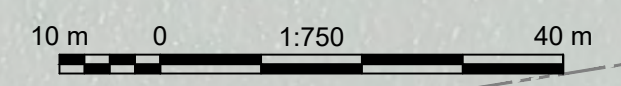
21-098-GA-003

SIZE	DWG	SHEET	REV
D		1 of 1	A



FOR PERMITTING
NOT FOR CONSTRUCTION

<p>LEGEND:</p> <ul style="list-style-type: none"> --- PROPOSED WORK LIMIT/ LIMIT OF VFPA JURISDICTION --- PROPOSED WORK LIMIT/ LIMIT OF DELTA JURISDICTION --- PROPOSED WORK LIMIT/ LIMIT OF SRY LAND JURISDICTION --- PROPERTY LINE --- PROPOSED RAILWAY CENTRE LINE 	<ul style="list-style-type: none"> --- PROPOSED FENCE --- EX. FENCE --- EX. RAILWAY CENTRE LINE 4 STACK HIGH TEU CONTAINER 6 STACK HIGH TEU CONTAINER --- DIRECTION OF TRUCK TRAFFIC --- EX. TREE
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Ref. No.	REFERENCE
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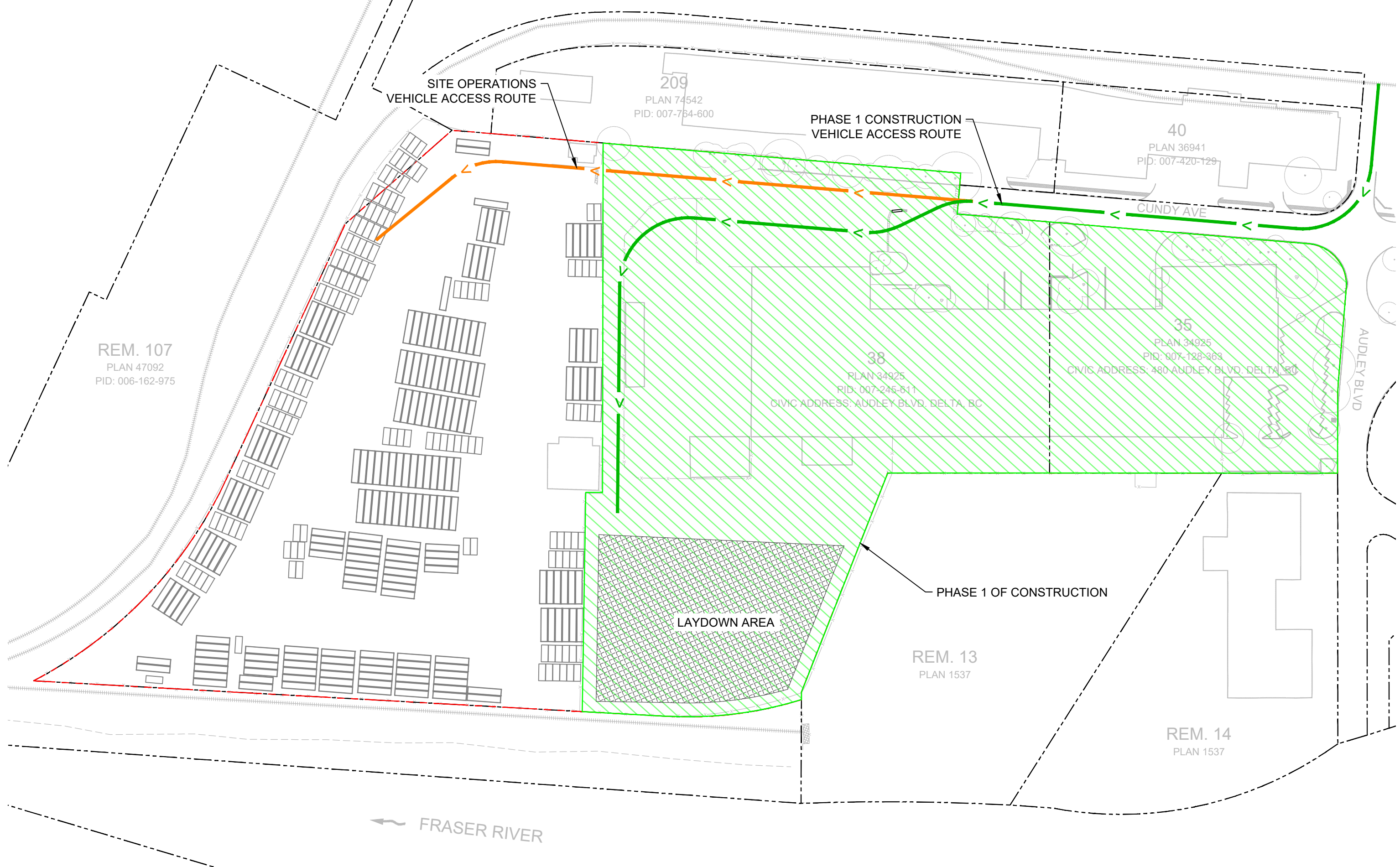
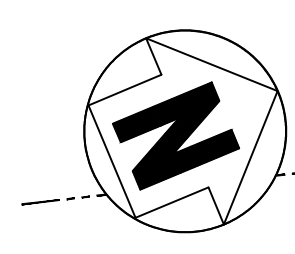
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	B	2023/06/30	ISSUED FOR PERMIT	CA	AL	
	A	2023/01/31	ISSUED FOR PERMIT	CA	AL	
	No.	Date	REVISION	Dr'n	Ch'd	



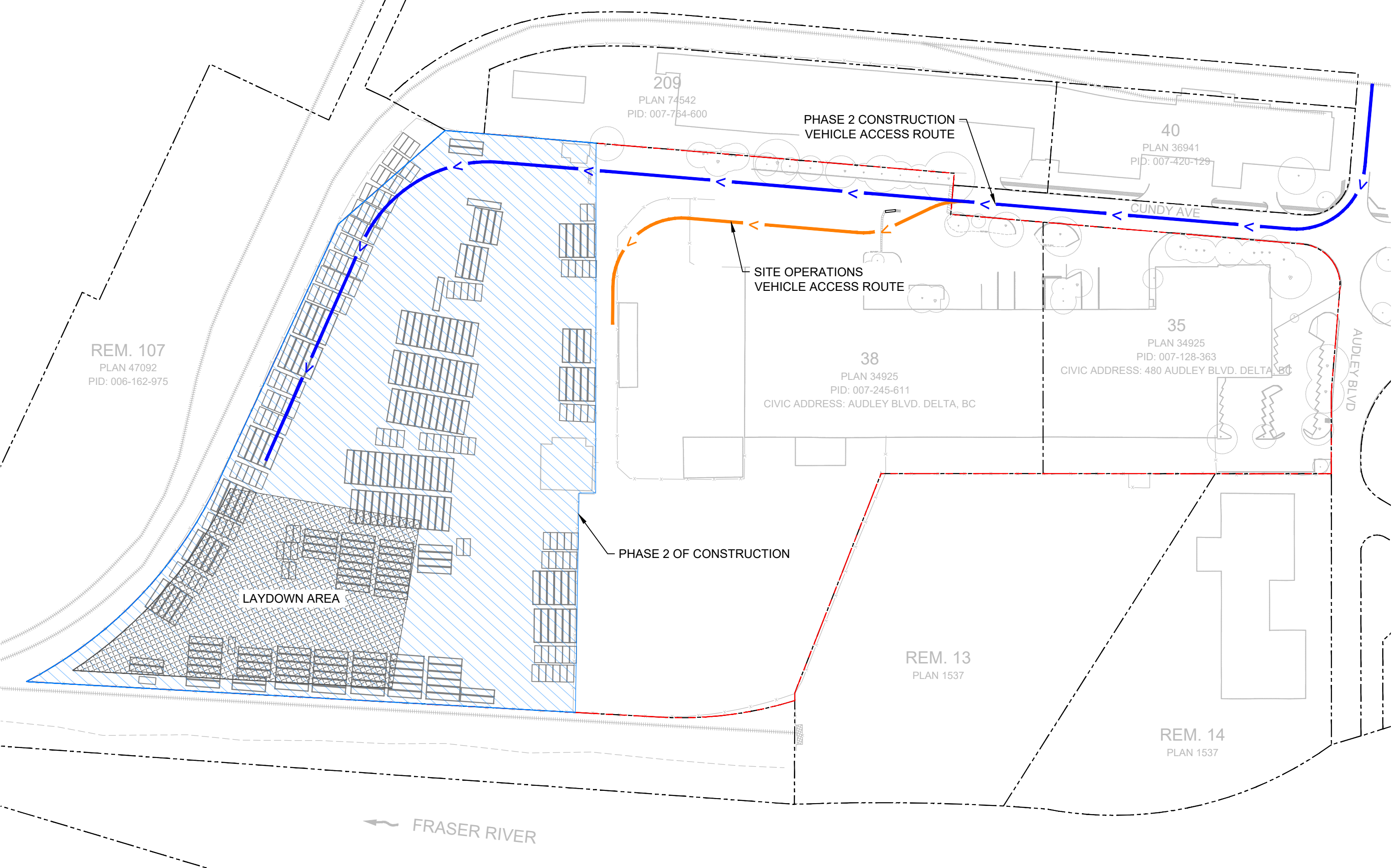
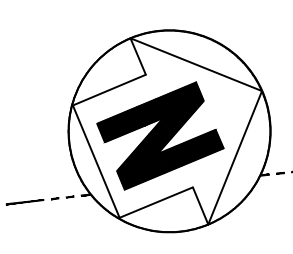
DESIGN BY	C. A.
DRAWN BY	C. A.
APPROVED	A. K.
DATE	2023-JAN-31
SCALE	AS SHOWN
VFPA SITE	CNVXXX

VANCOUVER FRASER PORT AUTHORITY TDK METRO TERMINALS EXPANSION PROPOSED CONTAINER ARRANGEMENT						
SIZE	DWG	21-098-GA-004	SHEET	1 of 1	REV	B

TITLE BLOCK CLTB.rwg



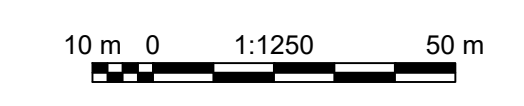
PHASE 1 OF CONSTRUCTION



PHASE 2 OF CONSTRUCTION

FOR PERMITTING
NOT FOR CONSTRUCTION

- LEGEND:
- VFPA LEGAL PROPERTY LIMIT
 - - - PROPERTY LIMIT
 - - - - - EX. RAILWAY CENTRE LINE
 - EX. SHIPPING CONTAINERS
 - < PHASE 1 CONSTRUCTION VEHICLE ACCESS ROUTE
 - < PHASE 2 CONSTRUCTION VEHICLE ACCESS ROUTE
 - < SITE OPERATIONS VEHICLE ACCESS ROUTE



DATE: 2023/03/07 - 9:38am
PATH: C:\pwworking\mottmac\transit\mottmac_aud25\0\00153238\514\00692-MMD-00-PO-DR-GA-0005.dwg

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 550 Burrard Street
 Vancouver, BC, V6C 2B5
 Canada
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 ENGINEERS AND GEOSCIENTISTS BRITISH COLUMBIA
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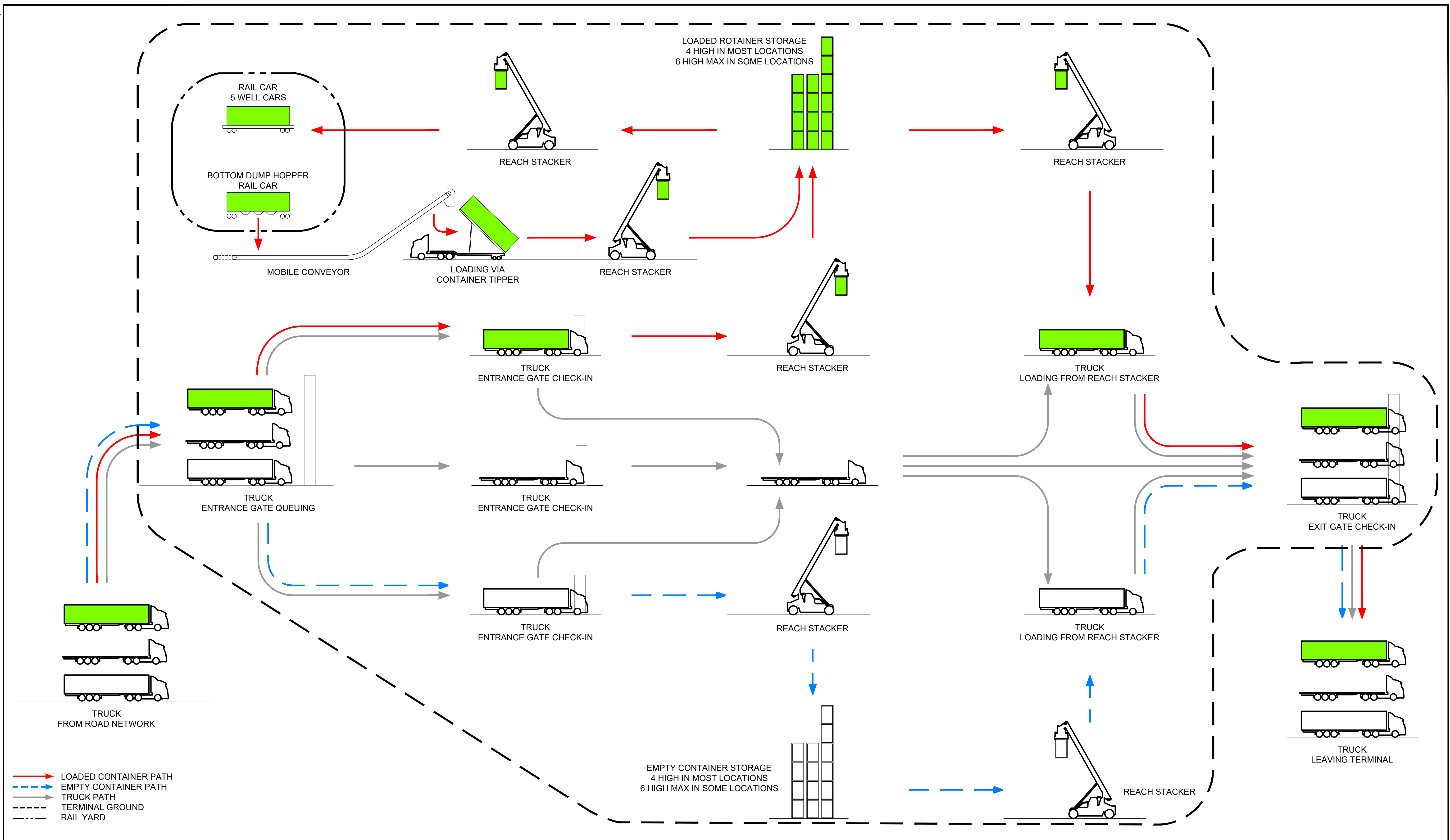
No.	Date	REVISION	Dr'n	Ch'd
A	2023/03/10	ISSUED FOR PERMIT	CA	AW

PORT of vancouver
Vancouver Fraser Port Authority
 ENGINEERING DEPARTMENT

DESIGN BY	A. L.
DRAWN BY	C. A.
APPROVED	A. W.
DATE	2023-MAR-10
SCALE	AS SHOWN
VFPA SITE	CVVXXX

VANCOUVER FRASER PORT AUTHORITY
TDK METRO TERMINALS EXPANSION
TDK CONSTRUCTION PHASING
VEHICLE ACCESS & LAYDOWN AREAS

SIZE	DWG	21-098-GA-005	SHEET	REV
D			1 of 1	A



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514100592-MMD-00-P0-DR-RW-0001

No.	Date	REVISION	Dr'n	Ch'd
B	2023/03/14	ISSUED FOR DISCUSSION	HK	SR
A	2022/10/11	ISSUED FOR DISCUSSION	HK	SR

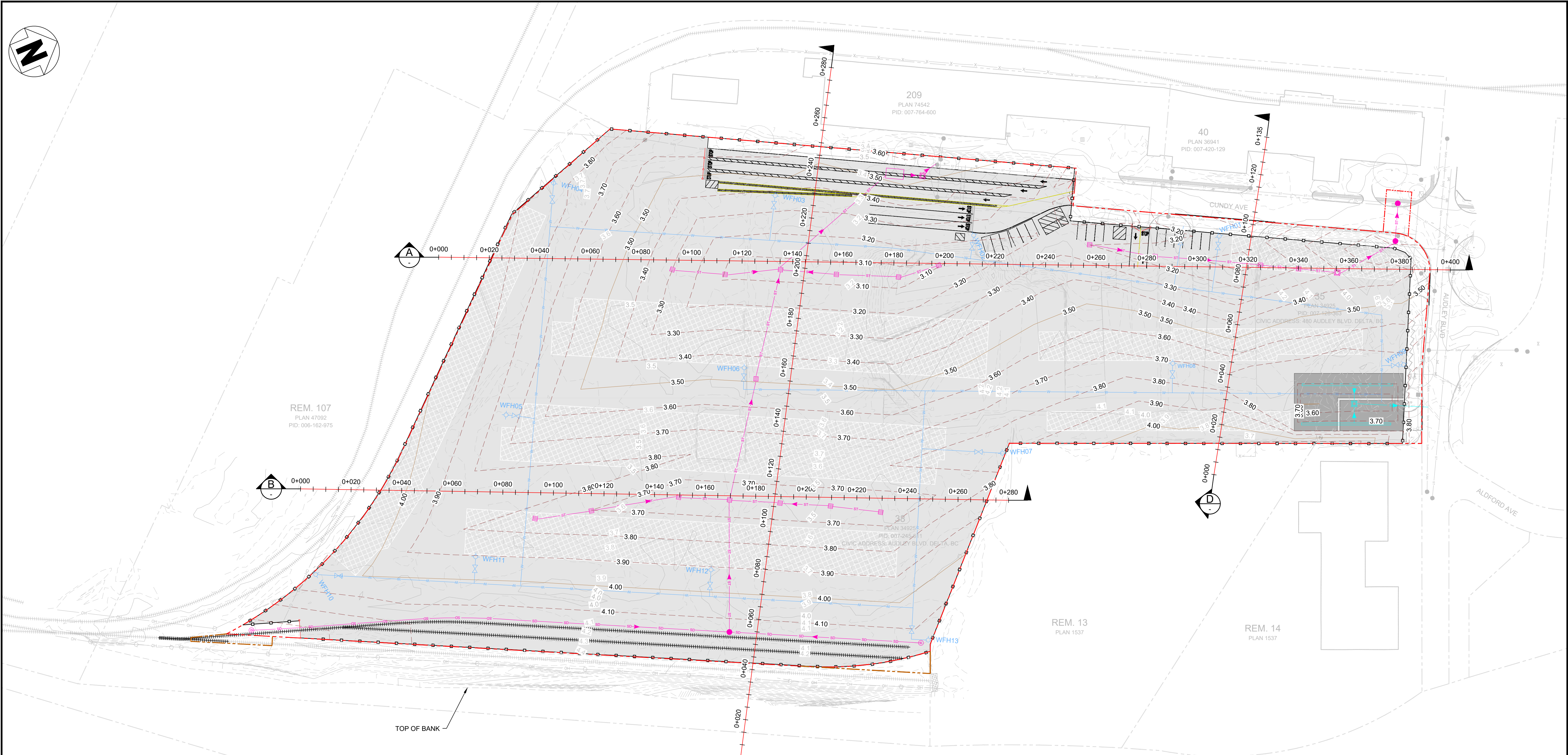
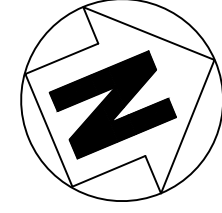
PORT of vancouver
Vancouver Fraser Port Authority
 ENGINEERING DEPARTMENT

DESIGN BY	C. A.
DRAWN BY	C. A.
APPROVED	A. W.
DATE	2023-JAN-31
SCALE	AS SHOWN
VFPA SITE	CNVXXX

VANCOUVER FRASER PORT AUTHORITY
TDK METRO TERMINALS EXPANSION

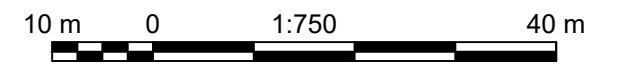
FLOW DIAGRAM

SIZE DWG. **21-098-GA-006** SHEET **1 of 1** REV **B**



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- LEGEND:**
- PROPOSED WORK LIMIT/ LIMIT OF VFPA JURISDICTION
 - PROPOSED WORK LIMIT/ LIMIT OF DELTA JURISDICTION
 - PROPOSED WORK LIMIT/ LIMIT OF SRY LAND JURISDICTION
 - PROPOSED STORM PIPE
 - PROPOSED SANITARY
 - PROPOSED WATER LINE
 - PROPOSED FENCE
 - PROPOSED RAILWAY CENTRE LINE
 - EX. COMM LINE
 - EX. OVERHEAD UTILITY
 - EX. FENCE
 - EX. RAILWAY CENTRE LINE
 - PROPOSED MAJOR CONTOUR (0.5m INTERVAL)
 - PROPOSED MINOR CONTOUR (0.1m INTERVAL)
 - EX. MAJOR CONTOUR (0.5m INTERVAL)
 - EX. MINOR MAJOR (0.1m INTERVAL)
 - PROPOSED STORM MANHOLE
 - PROPOSED CATCH BASIN
 - PROPOSED WATER VALVE
 - EX. MONITORING WELL
 - PROPOSED SEWER OIL WATER SEPARATOR
 - PROPOSED STORM OIL WATER SEPARATOR
 - PROPOSED CONTAINER AREA
 - PROPOSED PAVING AREA



DATE: 2023/06/30 - 2:26pm
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Ref. No.	REFERENCE

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 Vancouver, BC, V6C 2B5
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B	2023/06/30	ISSUED FOR PERMIT	CA	AL
A	2023/01/31	ISSUED FOR PERMIT	KW	AL
No.	Date	REVISION	Dr'n	Ch'd

PORT of vancouver
Vancouver Fraser Port Authority
 ENGINEERING DEPARTMENT

DESIGN BY: A. L.
 DRAWN BY: K. W.
 APPROVED: A. K.
 DATE: 2023-JAN-31
 SCALE: AS SHOWN
 VFPA SITE: CNVXXX

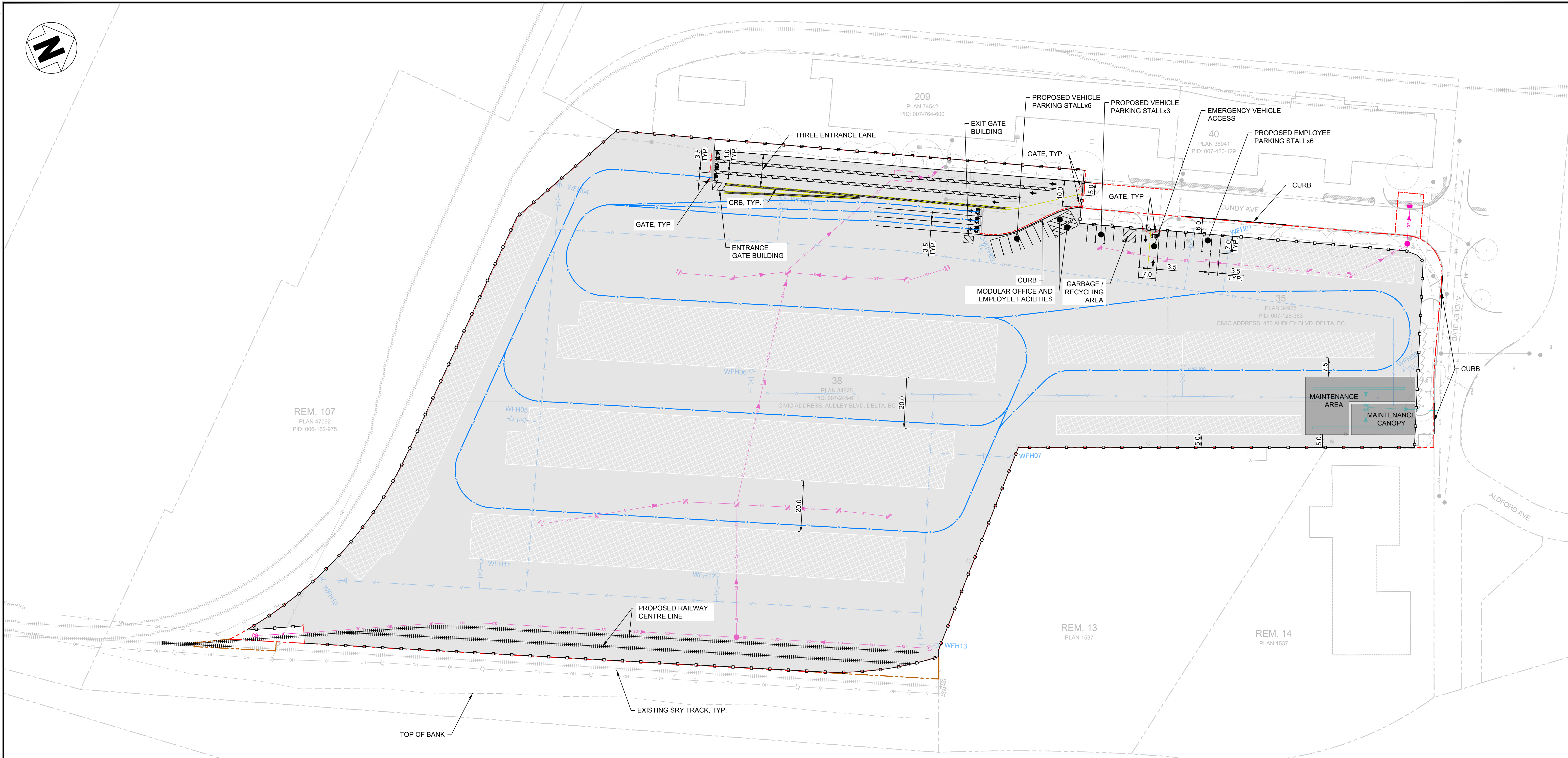
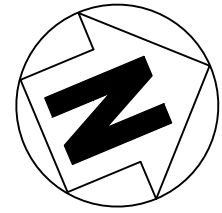
VANCOUVER FRASER PORT AUTHORITY
TDK METRO TERMINALS EXPANSION

GRADING PLAN

SIZE DWG: **21-098-CI-001**

SHEET **1 of 1** REV **B**

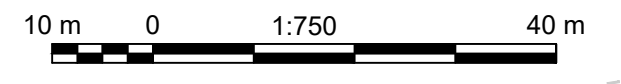
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FOR PERMITTING
NOT FOR CONSTRUCTION

LEGEND:

- - - PROPOSED WORK LIMIT/ LIMIT OF VFPA JURISDICTION
- - - PROPOSED WORK LIMIT/ LIMIT OF DELTA JURISDICTION
- - - PROPOSED WORK LIMIT/ LIMIT OF SRY LAND JURISDICTION
- PROPOSED FENCE
- PROPOSED RAILWAY CENTRE LINE
- > PROPOSED TRUCK MOVEMENT DIRECTION
- PROPOSED STORM PIPE
- PROPOSED SANITARY
- PROPOSED WATER LINE
- EX. FENCE
- EX. RAILWAY CENTRE LINE
- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN
- ⊗ PROPOSED WATER VALVE
- EX. MONITORING WELL
- PROPOSED SEWER OIL WATER SEPARATOR
- PROPOSED STORM OIL WATER SEPARATOR
- ⊕ PROPOSED FIRE HYDRANT
- PROPOSED CONTAINER AREA
- PROPOSED PAVING AREA
- EX. BUILDING
- EX. TREE



DATE: 2023/06/30 - 2:35pm
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Ref. No.	REFERENCE

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550 Burrard Street
Vancouver, BC, V6C 2B5
Canada
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W www.mottmac.com

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A	2023/01/31	ISSUED FOR PERMIT	KW	AL
No.	Date	REVISION	Dr'n	Ch'd

PORT of vancouver

Vancouver Fraser Port Authority

ENGINEERING DEPARTMENT

DESIGN BY	A. L.
DRAWN BY	K. W.
APPROVED	A. K.
DATE	2023-JAN-31
SCALE	AS SHOWN
VFPA SITE	CNVXXX

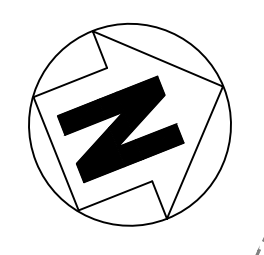
VANCOUVER FRASER PORT AUTHORITY

TDK METRO TERMINALS EXPANSION

PROPOSED PARKING AND ACCESS PLAN

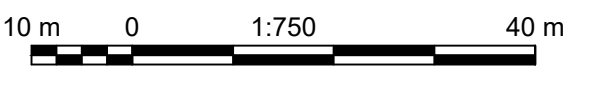
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FOR PERMITTING
NOT FOR CONSTRUCTION

- LEGEND:**
- PROPOSED WORK LIMIT/ LIMIT OF VFPA JURISDICTION
 - PROPOSED WORK LIMIT/ LIMIT OF DELTA JURISDICTION
 - PROPOSED WORK LIMIT/ LIMIT OF SRY LAND JURISDICTION
 - PROPOSED TRACK
 - PROPOSED FENCELINE
 - PROPOSED STORM PIPE
 - PROPOSED STORM SUBDRAIN PIPE
 - PROPOSED ELECTRICAL LINE DUCT BANK (BY OTHERS)
 - PROPOSED SANITARY DUCT BANK
 - PROPOSED WATER MAIN/ WATER MAIN DUCT BANK
 - EX. STORM PIPE
 - EX. ELECTRICAL LINE
 - EX. GAS LINE
 - EX. SANITARY
 - EX. WATER LINE
 - EX. FENCE
 - STORM FLOW DIRECTION
 - PROPOSED MANHOLE
 - PROPOSED OIL GRIT SEPARATOR
 - CLEAN OUT
 - PROPOSED FIRE HYDRANT
 - PROPOSED WATER VALVE
 - PROPOSED SEWER OIL WATER SEPARATOR
 - EX. POWER POLE
 - EX. UTILITY BOX
 - EX. LAMP STANDARD
 - EX. SIGN POST
 - ⊗ EX. VALVE
 - ⊗ EX. FIRE HYDRANT
 - ⊗ EX. CATCH BASIN
 - ⊗ EX. MANHOLE



Ref. No.	REFERENCE

M MOTT MACDONALD
 Suite 1888, Bentall 5
 550 Burrard Street
 Vancouver, BC, V6C 2B5
 Canada
 T 604.681.4400
 W www.mottmac.com

ENGINEERS AND GEOSCIENTISTS BRITISH COLUMBIA
 PERMIT TO PRACTICE NUMBER: 1001591

514100592-MMD-00-PO-DR-UT-0001

No.	Date	REVISION	Dr'n	Ch'd
B	2023/06/30	ISSUED FOR PERMIT	CA	AL
A	2023/01/31	ISSUED FOR PERMIT	ML	AK

PORT of vancouver
Vancouver Fraser Port Authority
 ENGINEERING DEPARTMENT

DESIGN BY	M. L.
DRAWN BY	M. L.
APPROVED	A. K.
DATE	2023-JAN-31
SCALE	AS SHOWN
VFPA SITE	CNVXXX

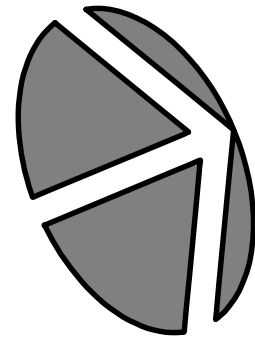
VANCOUVER FRASER PORT AUTHORITY
TDK METRO TERMINALS EXPANSION

PROPOSED UTILITIES PLAN

DWG. **21-098-UT-001**

SIZE **D** SHEET **1 of 1** REV **B**

DATE: 2023/06/30 - 2:47pm
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NOTES

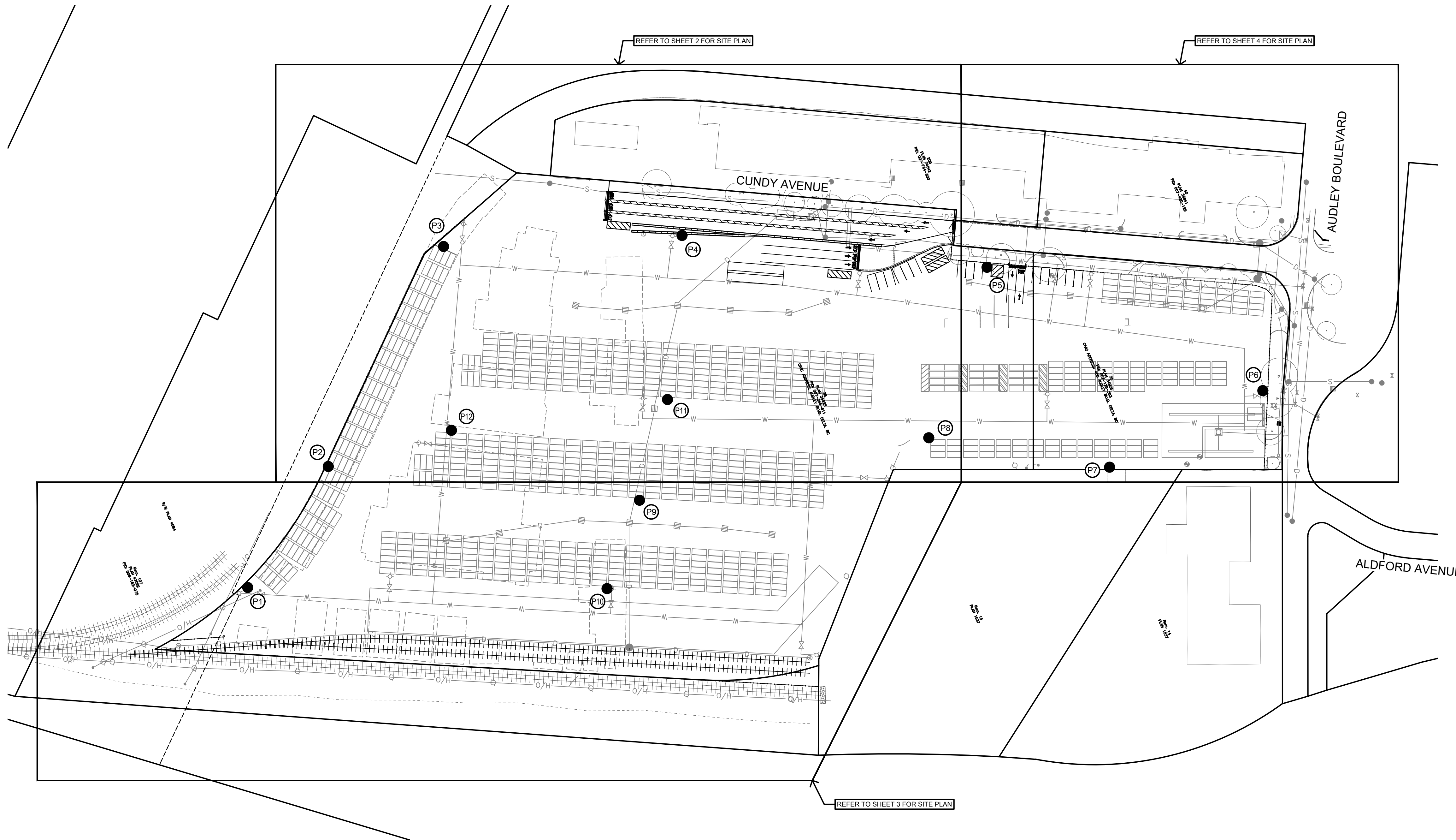
- ALL WORKS SHALL BE DONE IN ACCORDANCE WITH MASTER THE MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) PLATINUM EDITION AND CANADIAN ELECTRICAL CODE.
- ALL CONDUCTORS SHALL BE RW90 STRANDED COPPER (UNLESS OTHERWISE NOTED), LIGHTING AND FEEDER CONDUCTORS SHALL RUN CONTINUOUS WITH NO SPLICES.
- CONTRACTOR SHALL GAIN APPROVAL FROM LIGHTING SUPPLIER'S GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION INSTALLATION. BACK FILL SHALL MEET THE APPROVAL OF THE GEOTECHNICAL ENGINEER.
- CONDUITS SHALL BE BURIED A MIN. 1000mm DEEP (UNLESS OTHERWISE NOTED), A 'BURIED CABLE' MARKER TAPE SHALL BE INSTALLED IN ALL TRENCHES.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL LOCATE AND AVOID ALL UNDERGROUND SERVICES.
- THE CONTRACTOR SHALL REPLACE ALL ASPHALT, CONCRETE SIDEWALK PANELS, CURB & GUTTER, LANDSCAPE, ETC. REMOVED OR DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE OWNER.
- CONDUITS SHALL BE RIGID P.V.C. MANUFACTURED IN ACCORDANCE WITH C.S.A. C22.2 No. 211.2. (NOT DB2) (UNLESS OTHERWISE NOTED), ABOVE GROUND CONDUIT SHALL BE RIGID METAL.
- ALL EQUIPMENT SHALL BE BONDED IN COMPLIANCE WITH THE CANADIAN ELECTRICAL CODE.
- CONTRACTOR SHALL ENSURE ALL LOADS ARE BALANCED
- SEE B.C. HYDRO REGULATIONS FOR SERVICE CONNECTION DETAILS.
- CONTRACTOR TO COORDINATE DE-ENERGIZATION OF EXISTING SERVICE AND ENERGIZATION OF NEW SERVICE TO MINIMIZE DOWNTIME OF EXISTING YARD.

LEGEND

- 30.5m HIGH MAST LIGHTING, C/W PILE CAP SPREAD FOOT FOUNDATION. CONTACT MARK PACKER 604-353-4500 (DESIGN No. 223886A) (TYP.)
- LARGE ROUND JUNCTION BOX (MOTI SPEC) 2 SECTIONS DEEP C/W BOTTOM SECTION AND BONDED GALVANIZED STEEL SECURITY LID MARKED "ELEC".
- ⊕ 480V CONCRETE VAULT (MANHOLE COVER)
- ⊗ TYPE 4040 SERVICE VAULT WITH MANHOLE COVER MARKED "ELEC"
- UNDERGROUND RPVC ELECTRICAL CONDUIT (277/480 UNLESS OTHERWISE NOTED) (SIZE AS SHOWN)
- - - UNDERGROUND RPVC COMMUNICATIONS CONDUIT (SIZE AS SHOWN)
- ⊗ LIGHTING POLE NUMBER
- ⊙ EXISTING OVERHEAD UTILITY POLE
- ┆ CONDUIT STUB

LIGHTING DESIGN CRITERIA		
ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED **
LOCATION	TDK METRO TERMINALS	
FIELD TYPE	CARGO HANDLING FACILITY	
EQUIPMENT TYPE	TLC-LED-900 (890 MAX)	
MAINTAINED ILLUMINANCE LEVEL (AVG.)	38.0 LUX*	54.6 LUX
ILLUMINANCE UNIFORMITY RATIO (MAX-MIN.)	6.0:1*	6.0:1

* BASED ON IES RP-40-19 PORT LIGHTING, CARGO HANDLING FACILITY
 ** FOR SPILL LIGHTING CALCULATIONS ON WATER SIDE OF THE PROJECT REFER TO SUPPLIERS LIGHTING LAYOUT



DMD
 DMD & Associates
 Electrical Consultants Ltd.
 #12-17358 104A Avenue
 Surrey, BC, Canada V4N 5M3
 www.dmdeng.com 604/589-9010
 office@dmdeng.com Fax 604/589-9012

12.5kV
277/480V
120/208V

PERMIT TO PRACTICE
 NUMBER: 1000771
 ENGINEERS AND GEOSCIENTISTS BRITISH COLUMBIA

NOT FOR CONSTRUCTION
 2023-01-27

DESIGNED	MARTIN STERLING
DRAWN	ED KITTSOON
CHECKED	DONATO SPEIDEL
E.O.R.	MARTIN STERLING
DATE	JANUARY 18, 2023
SCALE:	1:1000

SEAL

OVERHEAD POWER LINE CONFLICTS
 CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION THAT POLES & EQUIPMENT WILL MEET WorkSafeBC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING POLES AND INSTALLING CONCRETE BASES.

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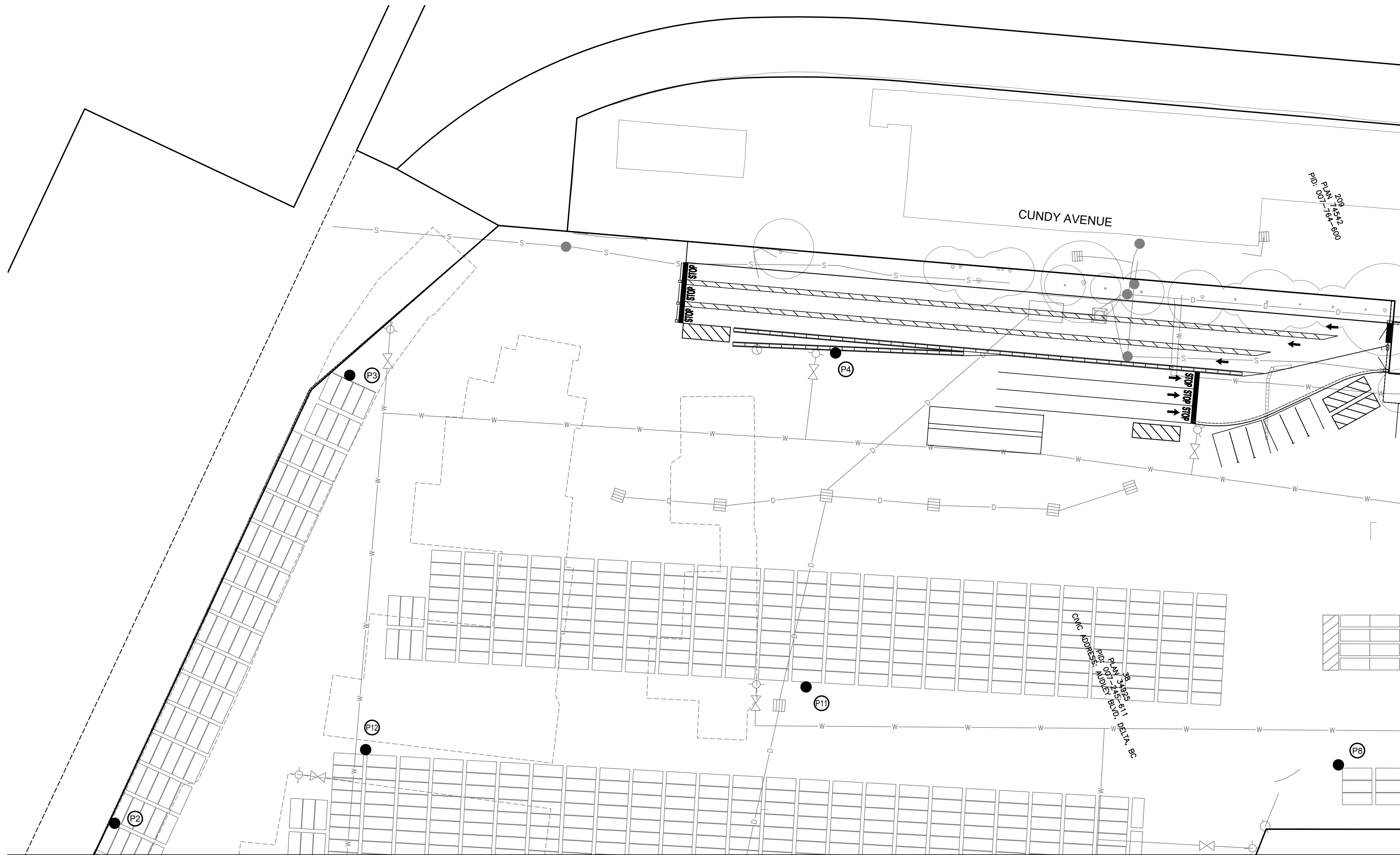
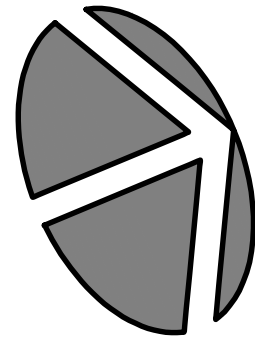
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No.	DATE	BY	CHK'D	REVISION
1	2023-01-27	EK	MGDS	PRELIMINARY LIGHTING LAYOUT - ISSUE FOR PERMIT

Mott MacDonald
 550 Burrard Street, Suite 1888, Vancouver, BC V6C2B5 TEL: 604 681 4400

TDK METRO TERMINALS EXPANSION
KEY PLAN, LEGEND, & NOTES
 480 AUDLEY BLVD #10
 DELTA, B.C.

PROJECT No.	7737-22-01 of 04	SHEET No.	1 of 4	REVISION	.
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A - MATCH LINE - REFER TO SHEET 03 - A



SITE PLAN



DMD & Associates
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DESIGNED	MARTIN STERLING
DRAWN	ED KITTSOON
CHECKED	DONATO SPEIDEL
E.O.R.	MARTIN STERLING
DATE	JANUARY 18, 2023
SCALE:	1:500

SEAL

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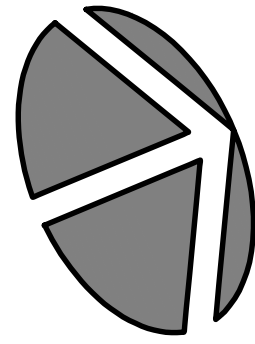
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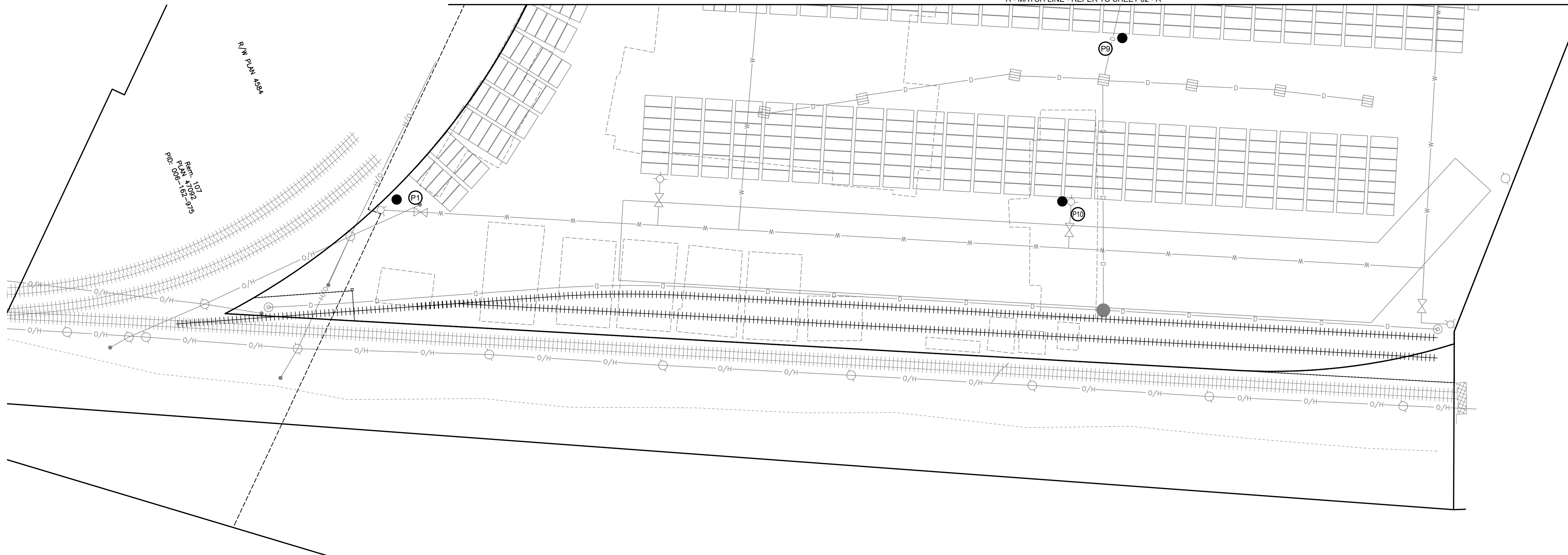
Mott MacDonald
 550 Burrard Street, Suite 1888, Vancouver, BC V6C2B5 TEL: 604 681 4400

TDK METRO TERMINALS EXPANSION
SITE PLAN
480 AUDLEY BLVD #10
 DELTA, B.C.

PROJECT No.	7737-22-02 of 04	SHEET No.	2 of 4	REVISION	.
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A - MATCH LINE - REFER TO SHEET 02 - A



Rev. 017
 PLAN 484
 P.D. 08-18-15



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 Surrey, BC, Canada V4N 5M3
 604/589-9010
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PERMIT TO PRACTICE
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 ENGINEERS AND GEOSCIENTISTS BRITISH COLUMBIA

NOT FOR CONSTRUCTION
 2023-01-27

DESIGNED	MARTIN STERLING
DRAWN	ED KITTSON
CHECKED	DONATO SPEIDEL
E.O.R.	MARTIN STERLING
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SCALE:	1:500

SEAL

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TDK METRO TERMINALS EXPANSION
 SITE PLAN
 480 AUDLEY BLVD #10
 DELTA, B.C.

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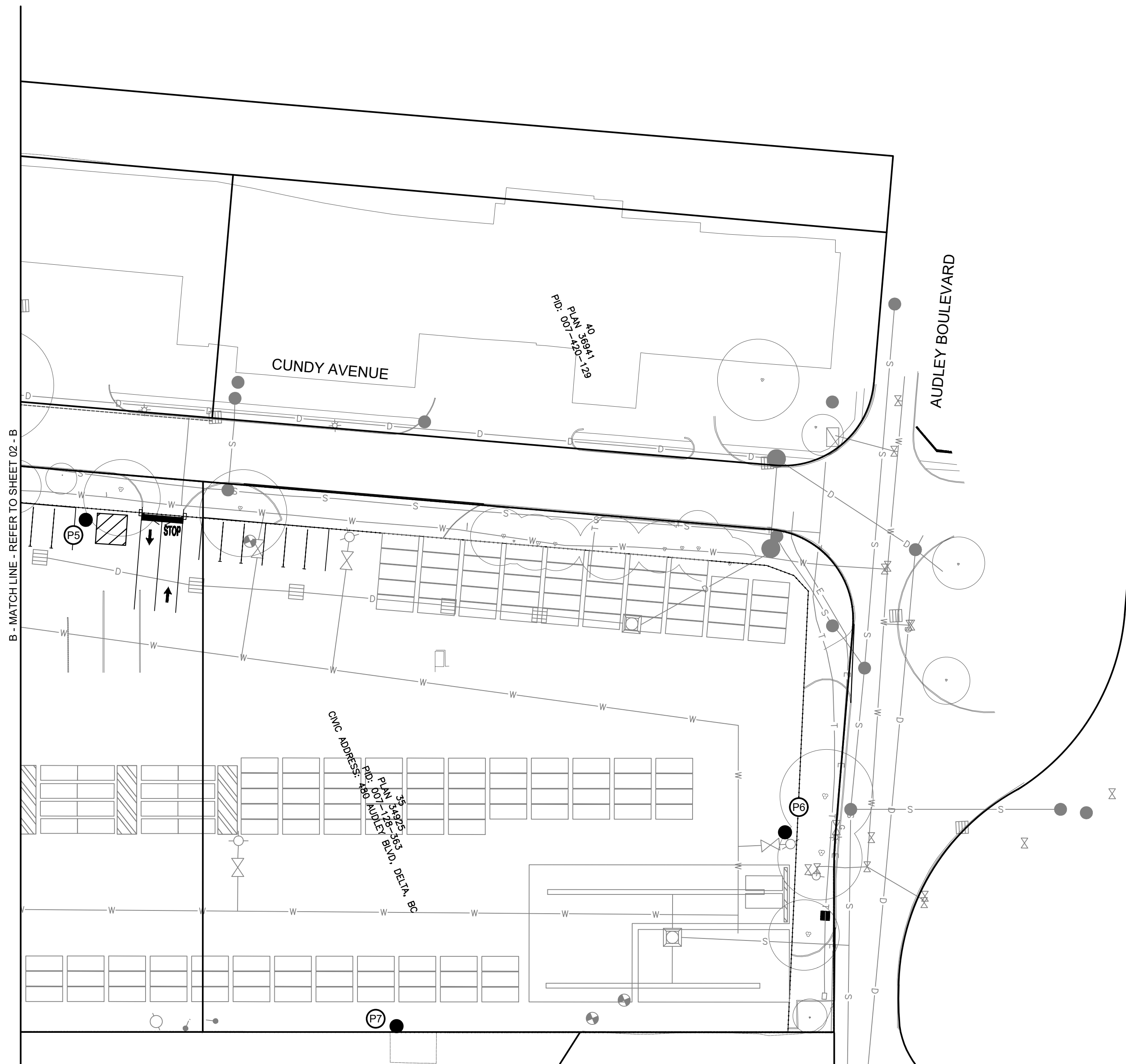
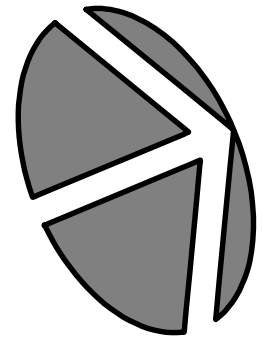
PROJECT No.	7737-22-03 of 04	SHEET No.	3 of 4	REVISION	.
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SITE PLAN
0 1:500 25



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Surrey, BC, Canada V4N 5M3
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TDK METRO TERMINALS EXPANSION
SITE PLAN
480 AUDLEY BLVD #10
DELTA, B.C.

PROJECT No.	7737-22-04 of 04	SHEET No.	4 of 4	REVISION	.
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TDK Metro Container Terminal

Delta, BC

Lighting System

Pole / Fixture Summary								
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Avg Load	Max Load	Circuit	
P1-P3, P7, P11	30.5	30.5	3	TLC-LED-900	2.40 kW	2.67 kW	A	
P4	30.5	30.5	7	TLC-LED-900	5.61 kW	6.23 kW	A	
P5, P8	30.5	30.5	4	TLC-LED-900	3.20 kW	3.56 kW	A	
P6	30.5	30.5	2	TLC-LED-900	1.60 kW	1.78 kW	A	
P9, P12	30.5	30.5	5	TLC-LED-900	4.01 kW	4.45 kW	A	
P10	30.5	30.5	6	TLC-LED-900	4.81 kW	5.34 kW	A	
12			48		38.45 kW	42.72 kW		

Circuit Summary				
Circuit	Description	Avg Load	Max Load	Fixture Qty
A	Container Terminal	38.45 kW	42.72 kW	48

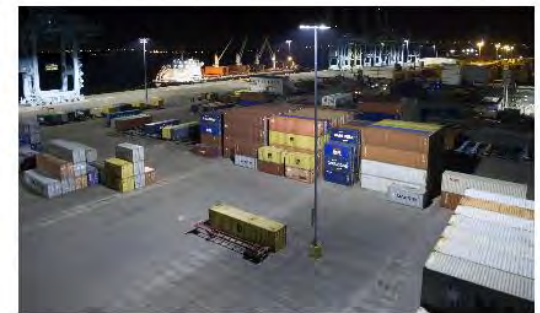
Fixture Type Summary						
Type	Source	Avg Wattage	Max Wattage	Constant Lumens	Application	Quantity
TLC-LED-900	LED 5700K - 75 CRI	801W	890W	76,160	100K	48

Single Luminaire Amperage Draw Chart								
Driver (.90 min power factor)	Max Line Amperage Per Luminaire							
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)	
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3	

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
45 Meter Spill Grid	Horizontal Illuminance	0.06	0	0.61	0.00		A	48
45 Meter Spill Grid	Max Candela (by Fixture)	1589	0	4980	0.00		A	48
45 Meter Spill Grid	Max Vert Illuminance (by Light Bank)	0.18	0	1.31	0.00		A	48
Container W Blockage	Horizontal	42.2	3.3	117	35.25	12.8	A	48
Container W/O Blockage	Horizontal	54.6	14.1	117	8.31	3.86	A	48

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EQUIPMENT LIST FOR AREAS SHOWN

Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
5	P1-P3, P7 P11	30.5m	-	30.5m	TLC-LED-900	3	3	0
1	P4	30.5m	-	30.5m	TLC-LED-900	4/3*	7	0
1	P5	30.5m	-	30.5m	TLC-LED-900	4	4	0
1	P6	30.5m	-	30.5m	TLC-LED-900	2	2	0
1	P8	30.5m	-	30.5m	TLC-LED-900	3/1*	4	0
1	P9	30.5m	-	30.5m	TLC-LED-900	2/3*	5	0
1	P10	30.5m	-	30.5m	TLC-LED-900	3/3*	6	0
1	P12	30.5m	-	30.5m	TLC-LED-900	3/2*	5	0
12	TOTALS					48	48	0

* This structure utilizes a back-to-back mounting configuration

TDK Metro Container Terminal

Delta, BC

GRID SUMMARY	
Name:	Container W/O Blockage
Size:	0.0m x 0.0m
Spacing:	10.0m x 10.0m
Height:	0.0m above grade

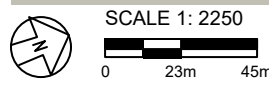
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
	Entire Grid
Scan Average:	54.56
Maximum:	117.35
Minimum:	14.12
Avg / Min:	3.86
Max / Min:	8.31
UG (adjacent pts):	3.04
CU:	0.93
No. of Points:	596
LUMINAIRE INFORMATION	
Applied Circuits:	A
Design Usage Hours:	100,000
No. of Luminaires:	48
Avg Load:	38.45 kW
Max Load:	42.72 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



EQUIPMENT LIST FOR AREAS SHOWN

Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
5	P1-P3, P7 P11	30.5m	-	30.5m	TLC-LED-900	3	3	0
1	P4	30.5m	-	30.5m	TLC-LED-900	4/3*	7	0
1	P5	30.5m	-	30.5m	TLC-LED-900	4	4	0
1	P6	30.5m	-	30.5m	TLC-LED-900	2	2	0
1	P8	30.5m	-	30.5m	TLC-LED-900	3/1*	4	0
1	P9	30.5m	-	30.5m	TLC-LED-900	2/3*	5	0
1	P10	30.5m	-	30.5m	TLC-LED-900	3/3*	6	0
1	P12	30.5m	-	30.5m	TLC-LED-900	3/2*	5	0
12	TOTALS					48	48	0

* This structure utilizes a back-to-back mounting configuration

TDK Metro Container Terminal

Delta, BC

GRID SUMMARY	
Name:	Container W Blockage
Size:	0.0m x 0.0m
Spacing:	10.0m x 10.0m
Height:	0.0m above grade

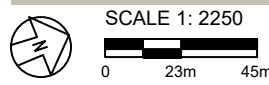
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
	Entire Grid
Scan Average:	42.25
Maximum:	116.31
Minimum:	3.30
Avg / Min:	12.80
Max / Min:	35.25
UG (adjacent pts):	23.84
CU:	0.58
No. of Points:	478
LUMINAIRE INFORMATION	
Applied Circuits:	A
Design Usage Hours:	100,000
No. of Luminaires:	48
Avg Load:	38.45 kW
Max Load:	42.72 kW

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EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
5	P1-P3, P7, P11	30.5m	-	30.5m	TLC-LED-900	3	3	0
1	P4	30.5m	-	30.5m	TLC-LED-900	4/3*	7	0
1	P5	30.5m	-	30.5m	TLC-LED-900	4	4	0
1	P6	30.5m	-	30.5m	TLC-LED-900	2	2	0
1	P8	30.5m	-	30.5m	TLC-LED-900	3/1*	4	0
1	P9	30.5m	-	30.5m	TLC-LED-900	2/3*	5	0
1	P10	30.5m	-	30.5m	TLC-LED-900	3/3*	6	0
1	P12	30.5m	-	30.5m	TLC-LED-900	3/2*	5	0
12	TOTALS					48	48	0

* This structure utilizes a back-to-back mounting configuration



TDK Metro Container Terminal Delta, BC

GRID SUMMARY	
Name:	45 Meter Spill Grid
Spacing:	10.0m
Height:	1.5m above grade

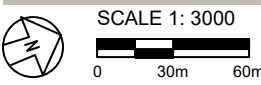
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 1588.7081
Maximum:	4979.7612
Minimum:	0.0000
No. of Points:	171
LUMINAIRE INFORMATION	
Applied Circuits:	A
Design Usage Hours:	100,000
No. of Luminaires:	48
Avg Load:	38.45 kW
Max Load:	42.72 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



ENGINEERED DESIGN By: A.Hibler · File #223886B · 11-Jan-23

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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ILLUMINATION SUMMARY

TDK Metro Container Terminal Delta, BC

EQUIPMENT LAYOUT

INCLUDES:

· Container Terminal

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	Pole			Luminaires		QTY / POLE
	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	
5	P1-P3, P7, P11	30.5m	-	30.5m	TLC-LED-900	3
1	P4	30.5m	-	30.5m	TLC-LED-900	4/3*
1	P5	30.5m	-	30.5m	TLC-LED-900	4
1	P6	30.5m	-	30.5m	TLC-LED-900	2
1	P8	30.5m	-	30.5m	TLC-LED-900	3/1*
1	P9	30.5m	-	30.5m	TLC-LED-900	2/3*
1	P10	30.5m	-	30.5m	TLC-LED-900	3/3*
1	P12	30.5m	-	30.5m	TLC-LED-900	3/2*
12	TOTALS					48

* This structure utilizes a back-to-back mounting configuration

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Driver (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3

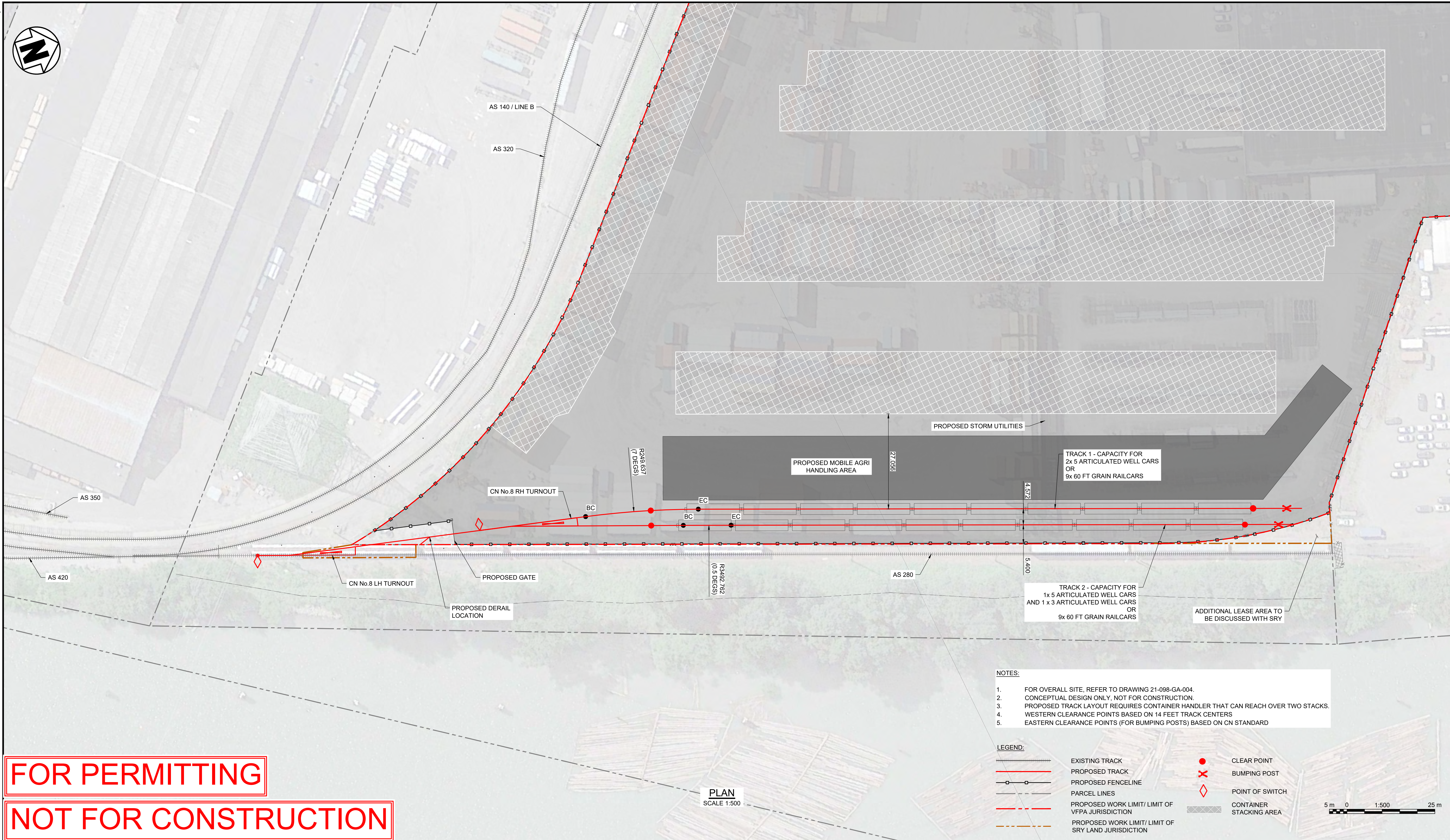


SCALE 1: 3000
0 30m 60m

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

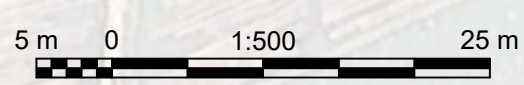


TITLE BLOCK CL-TB.rwg



- NOTES:**
- FOR OVERALL SITE, REFER TO DRAWING 21-098-GA-004.
 - CONCEPTUAL DESIGN ONLY, NOT FOR CONSTRUCTION.
 - PROPOSED TRACK LAYOUT REQUIRES CONTAINER HANDLER THAT CAN REACH OVER TWO STACKS.
 - WESTERN CLEARANCE POINTS BASED ON 14 FEET TRACK CENTERS
 - EASTERN CLEARANCE POINTS (FOR BUMPING POSTS) BASED ON CN STANDARD

- LEGEND:**
- EXISTING TRACK
 - PROPOSED TRACK
 - PROPOSED FENCELINE
 - PARCEL LINES
 - PROPOSED WORK LIMIT/ LIMIT OF VFPA JURISDICTION
 - PROPOSED WORK LIMIT/ LIMIT OF SRY LAND JURISDICTION
 - CLEAR POINT
 - BUMPING POST
 - POINT OF SWITCH
 - CONTAINER STACKING AREA



FOR PERMITTING

NOT FOR CONSTRUCTION

PLAN
SCALE 1:500

DATE: 2023/01/27 - 8:39am
PATH: C:\users\sw91920\appdata\local\projectwise\work\in\mott-macdonald\use-pw-15460153364\154100592-MMD-00-P0-DR-RW-0001.dwg

Ref. No.	REFERENCE
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M MOTT MACDONALD
ENGINEERS AND GEOSCIENTISTS BRITISH COLUMBIA
PERMIT TO PRACTICE NUMBER: 1001591
514100592-MMD-00-P0-DR-RW-0001

Suite 1888, Bentall 5
550 Burrard Street
Vancouver, BC, V6C 2B5
Canada
T 604.681.4400
W www.mottmac.com

No.	Date	REVISION	Dr'n	Ch'd
A	2023/01/31	ISSUED FOR PERMIT	CA	AW

PORT of vancouver
Vancouver Fraser Port Authority
ENGINEERING DEPARTMENT

DESIGN BY	C. A.
DRAWN BY	C. A.
APPROVED	A. W.
DATE	2023-JAN-31
SCALE	AS SHOWN
VFPA SITE	CNVXXX

VANCOUVER FRASER PORT AUTHORITY
TDK METRO TERMINALS EXPANSION

RAIL PLAN

DWG: **21-098-RL-001**

SHEET **1 of 1** REV **A**