

Client: **VANCOUVER FRASER  
PORT AUTHORITY**

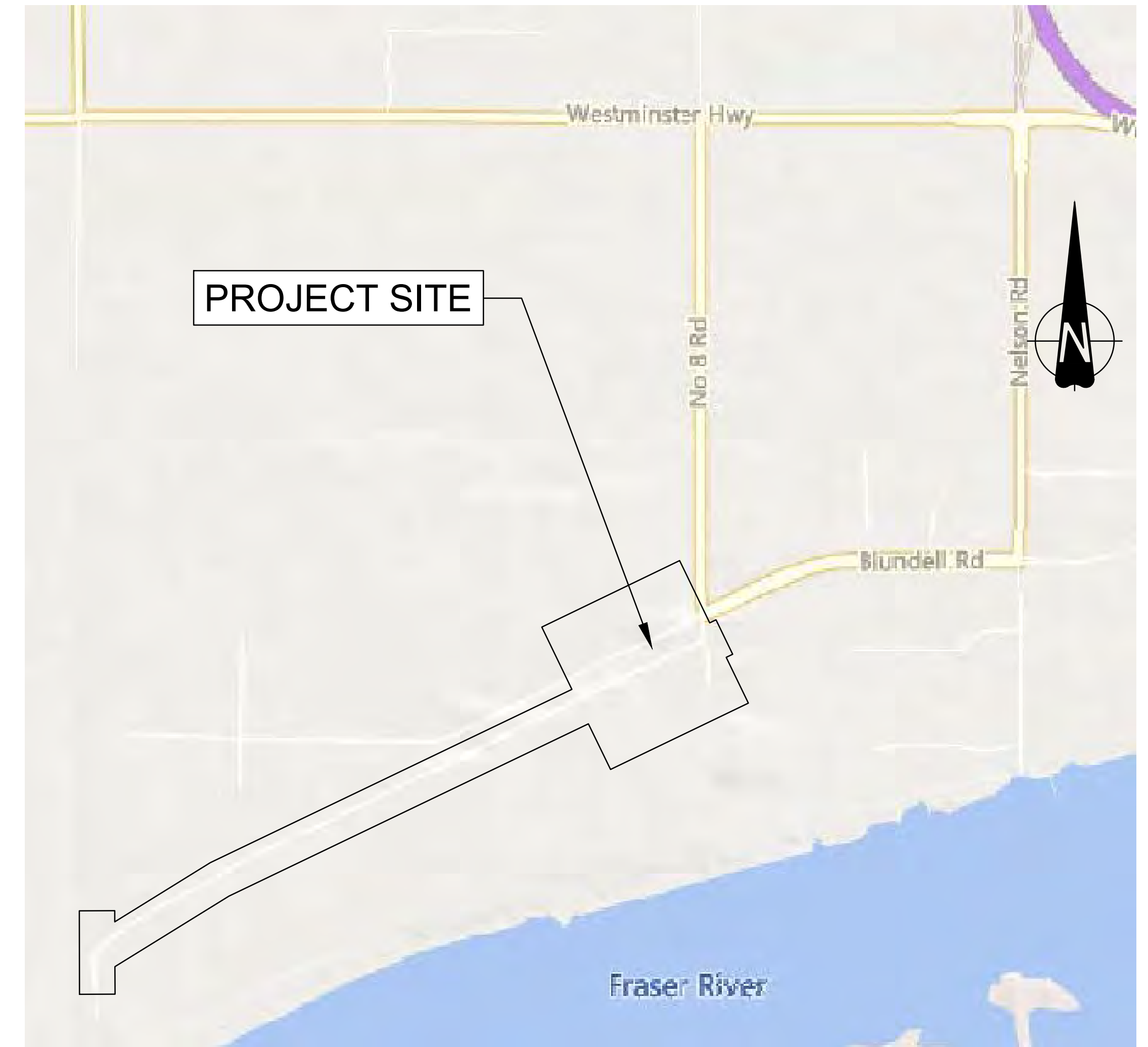
Description: **PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
PORTSIDE ROAD OVERPASS**

VFPA

Contract No: **21-0409**

McElhanney Project No: 2111-40118-00

INDICATIVE DESIGN SUBMISSION  
2022-11-18



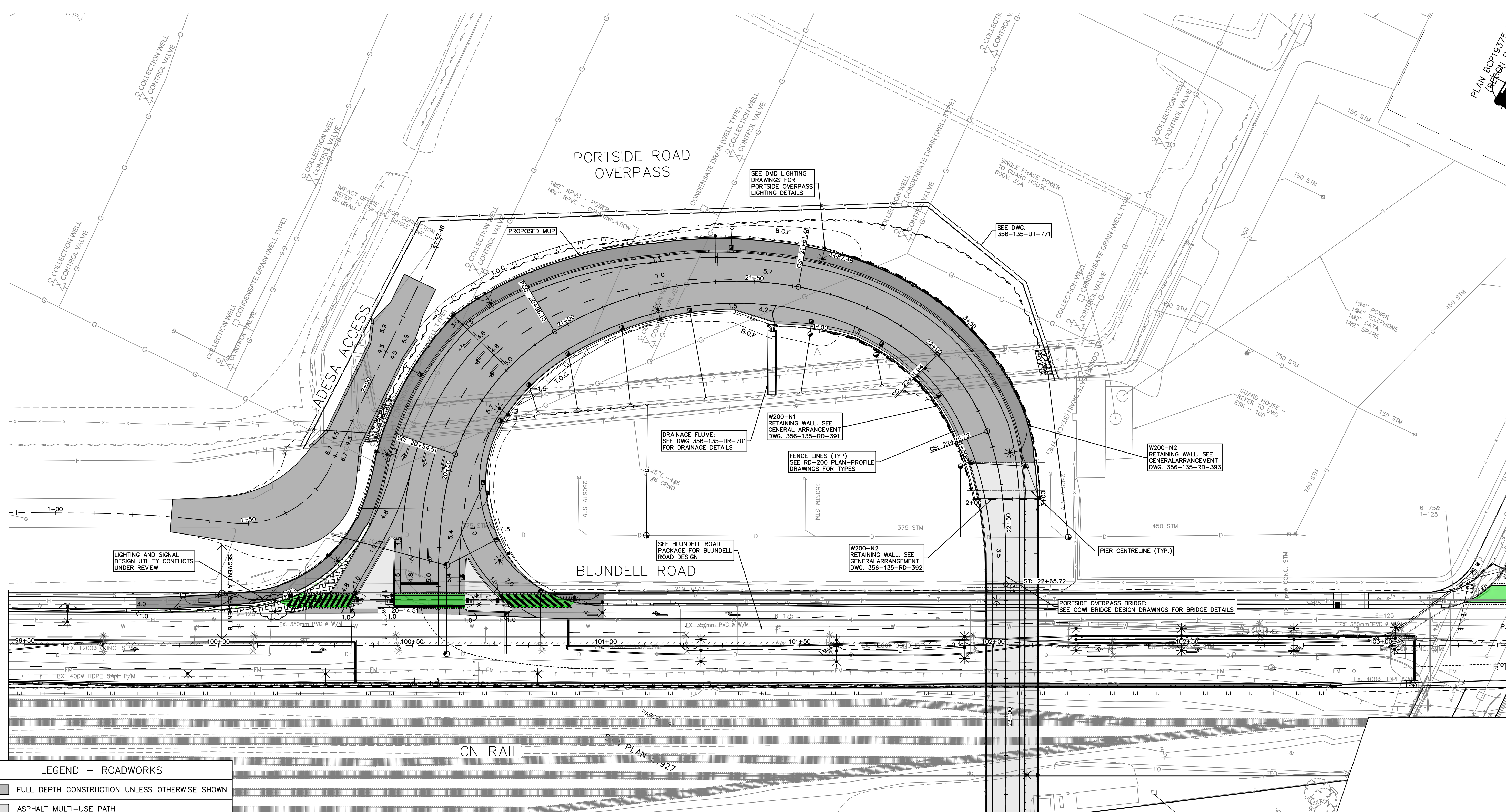
**SITE PLAN**  
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DRAWING INDEX				
DRAWING No.	DRAWING TYPE	STREET	SHEET No.	REV No.
356-135-RD-001	COVER SHEET		1 / 1	C
356-135-RD-101	KEY PLAN	PORTSIDE ROAD OVERPASS	1 / 5	C
356-135-RD-102	KEY PLAN	PORTSIDE ROAD OVERPASS	2 / 5	C
356-135-RD-103	KEY PLAN	PORTSIDE ROAD	3 / 5	C
356-135-RD-104	KEY PLAN	PORTSIDE ROAD	4 / 5	C
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356-135-RD-205	ROAD PLAN AND PROFILE	PORTSIDE ROAD	5 / 12	C
356-135-RD-206	ROAD PLAN AND PROFILE	PORTSIDE ROAD	6 / 12	C
356-135-RD-207	ROAD PLAN AND PROFILE	PORTSIDE ROAD	7 / 12	C
356-135-RD-208	ROAD PLAN AND PROFILE	PORTSIDE ROAD	8 / 12	C
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356-135-RD-211	ROAD PLAN AND PROFILE	FRONTAGE ROAD	11 / 12	A
356-135-RD-212	ROAD PLAN AND PROFILE	FRONTAGE ROAD	12 / 12	A
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365-135-RD-302	TYPICAL SECTIONS & DETAILS	PORTSIDE ROAD	2 / 3	C
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365-135-RD-601	SIGNAGE AND PAVEMENT MARKINGS	PORTSIDE ROAD OVERPASS	1 / 5	B
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365-135-DR-703	DRAINAGE AND STORM SEWERS	PORTSIDE ROAD	3 / 5	C
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365-135-UT-771	UTILITY RELOCATIONS	PORTSIDE ROAD OVERPASS	1 / 5	C
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365-135-UT-775	UTILITY RELOCATIONS	PORTSIDE ROAD	5 / 5	C



Suite 2300  
13450 102nd Avenue  
Surrey BC  
Canada V3T 5X3  
T 604 596 0391

DATE: 2022/11/18 - 8:49pm  
PATH: X:\2111\11-00 - DB Projects\2111-40118-00 - Ledor - Portside-Blundell Rd Imp\10.0 DRAWINGS\10.2 Civil\ID20A10.3.1 Sheets\ID20A-MECS-DWG-CV-100-GEN.dwg  
TITLE BLOCK CL-TB.rvt



LIGHTING AND SIGNAL DESIGN UTILITY CONFLICTS UNDER REVIEW

SEE DMD LIGHTING DRAWINGS FOR PORTSIDE OVERPASS LIGHTING DETAILS

SEE DWG. 356-135-UT-771

DRAINAGE FLUME: SEE DWG 356-135-DR-701 FOR DRAINAGE DETAILS

W200-N1 RETAINING WALL. SEE GENERAL ARRANGEMENT DWG. 356-135-RD-391

FENCE LINES (TYP) SEE RD-200 PLAN-PROFILE DRAWINGS FOR TYPES

W200-N2 RETAINING WALL. SEE GENERAL ARRANGEMENT DWG. 356-135-RD-393

SEE BLUNDELL ROAD PACKAGE FOR BLUNDELL ROAD DESIGN

W200-N2 RETAINING WALL. SEE GENERAL ARRANGEMENT DWG. 356-135-RD-392

PORTSIDE OVERPASS BRIDGE: SEE COWI BRIDGE DESIGN DRAWINGS FOR BRIDGE DETAILS

CONTINUED ON SHEET 356-135-RD-102

**LEGEND - ROADWORKS**

[Pattern]	FULL DEPTH CONSTRUCTION UNLESS OTHERWISE SHOWN
[Pattern]	ASPHALT MULTI-USE PATH
[Pattern]	CONCRETE SIDEWALK
[Pattern]	MEDIAN
[Pattern]	BOULEVARD
[Pattern]	BRICK PATTERN ADOBE RED COLOUR

Ref. No.	REFERENCE

Suite 2300  
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No.	Date	REVISION	Dr'n	Ch'd
C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

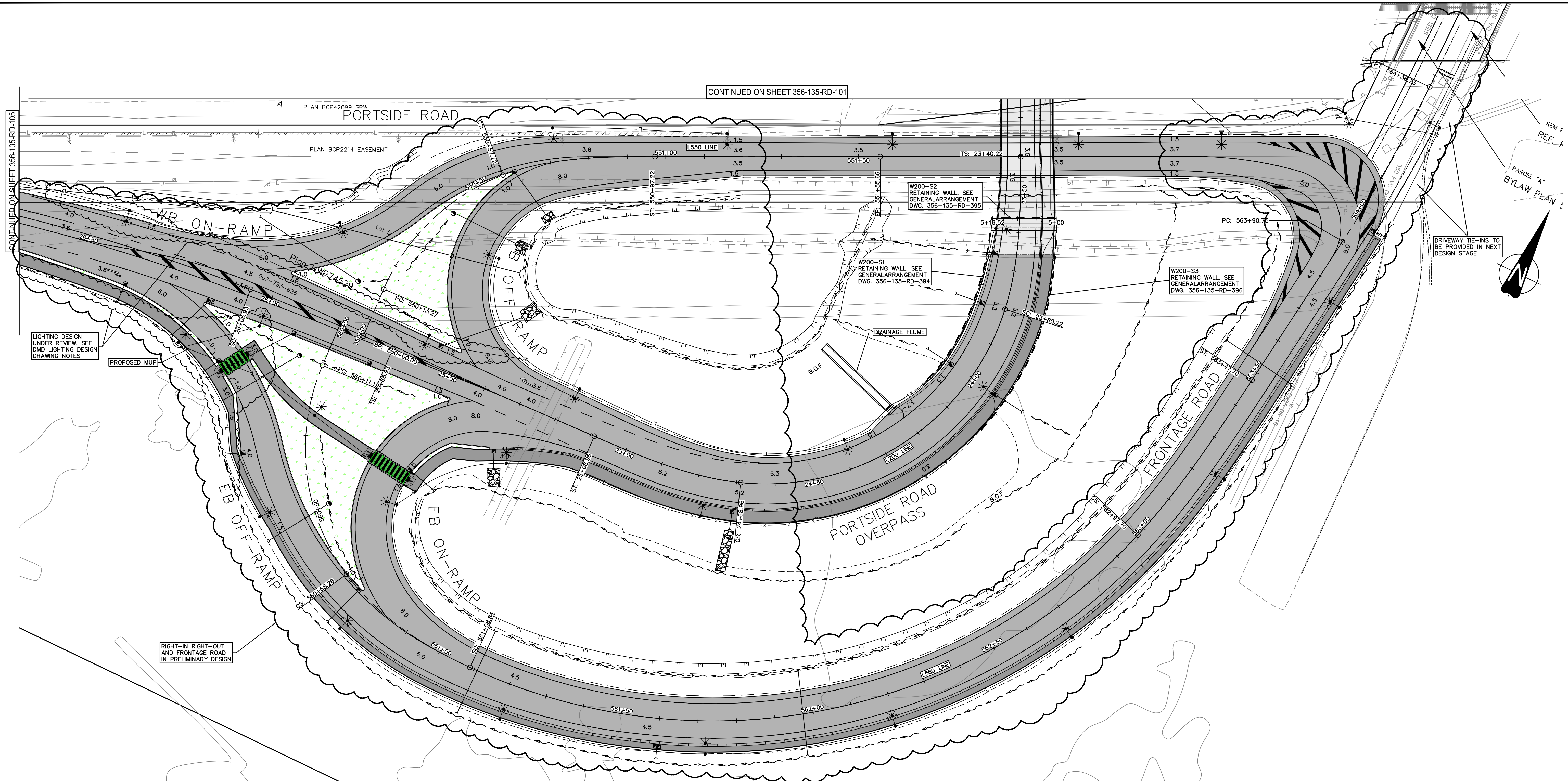
**Vancouver Fraser Port Authority**

ENGINEERING DEPARTMENT

DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD OVERPASS**  
**KEY PLAN**

SIZE	DWG	356-135-RD-101	SHEET	1 of 5	REV	C
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CONTINUED ON SHEET 356-135-RD-101

REM F  
REF. F  
PARCEL "A"  
BYLAW PLAN 5

DRIVEWAY TIE-INS TO  
BE PROVIDED IN NEXT  
DESIGN STAGE

LIGHTING DESIGN  
UNDER REVIEW. SEE  
DMD LIGHTING DESIGN  
DRAWING NOTES

PROPOSED MUP

RIGHT-IN RIGHT-OUT  
AND FRONTAGE ROAD  
IN PRELIMINARY DESIGN

LEGEND -- ROADWORKS	
	FULL DEPTH CONSTRUCTION UNLESS OTHERWISE SHOWN
	ASPHALT MULTI-USE PATH
	CONCRETE SIDEWALK
	MEDIAN
	BOULEVARD
	BRICK PATTERN ADOBE RED COLOUR

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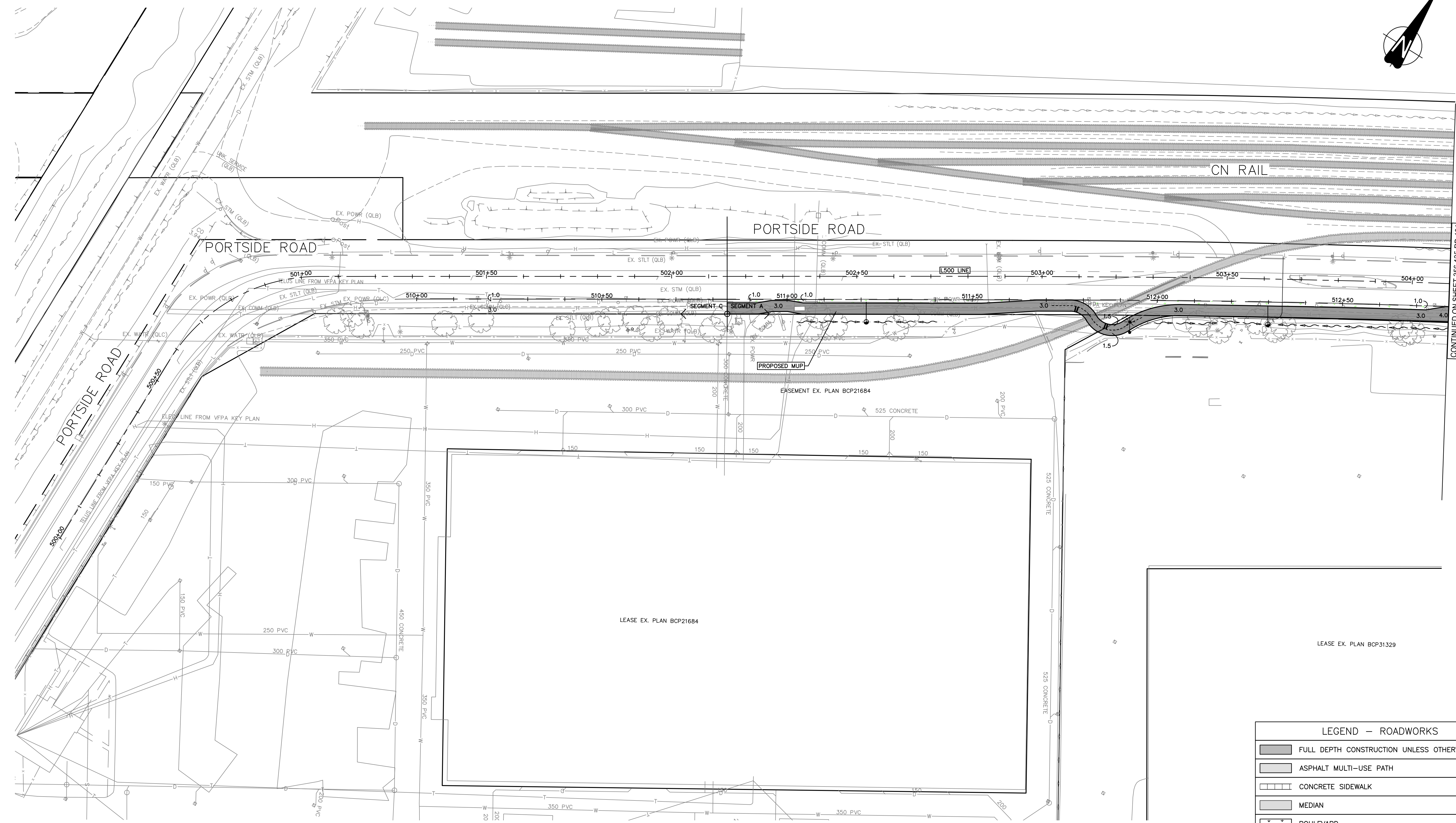
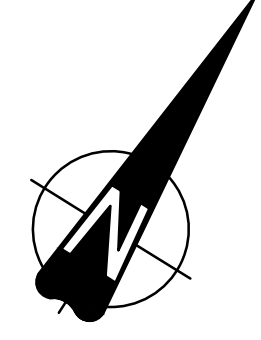
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**Vancouver Fraser  
Port Authority**  
ENGINEERING DEPARTMENT

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DRAWN BY	E. YANG
APPROVED	L. ZAREI
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**GREATER VANCOUVER GATEWAY 2030  
PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
PORTSIDE ROAD OVERPASS  
KEY PLAN**

SIZE	DWG.	SHEET	REV.
D	356-135-RD-102	2 of 5	C



CONTINUED ON SHEET 356-135-RD-104

**LEGEND - ROADWORKS**

- FULL DEPTH CONSTRUCTION UNLESS OTHERWISE SHOWN
- ASPHALT MULTI-USE PATH
- CONCRETE SIDEWALK
- MEDIAN
- BOULEVARD
- BRICK PATTERN ADOBE RED COLOUR

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**Vancouver Fraser  
Port Authority**

ENGINEERING DEPARTMENT

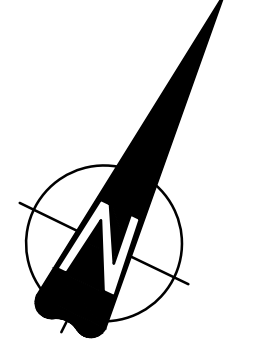
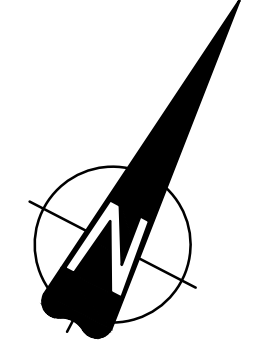
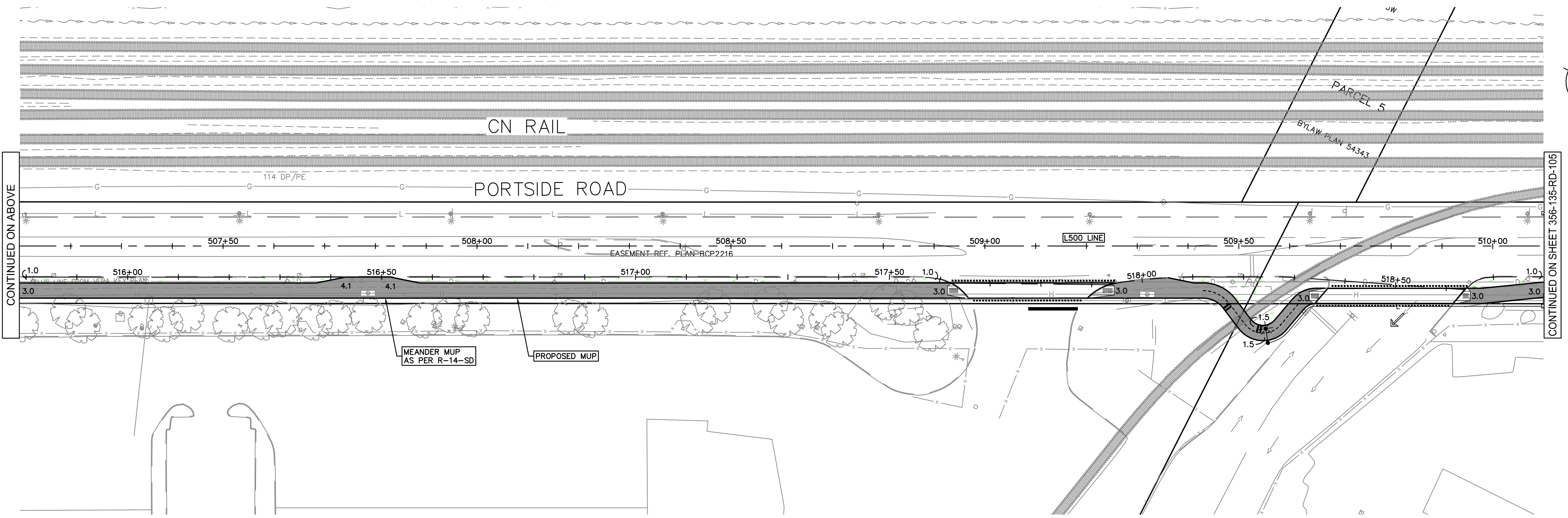
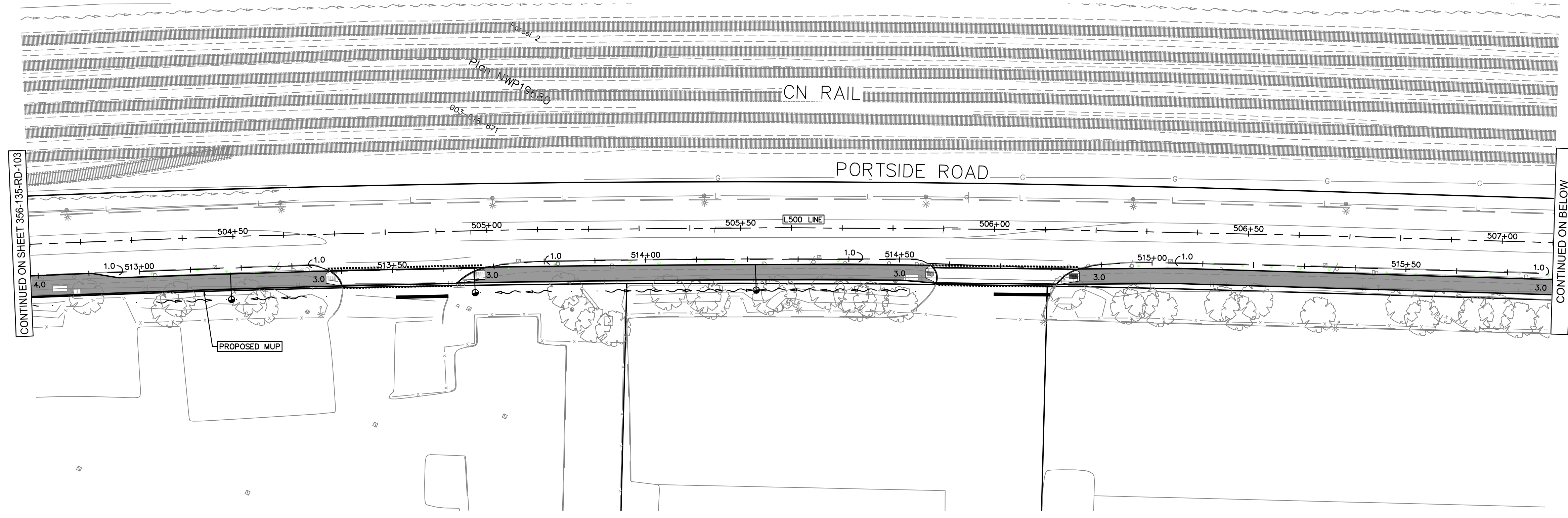
DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030  
PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
PORTSIDE ROAD  
KEY PLAN**

SIZE	DWG	356-135-RD-103	SHEET	REV
D			3 of 5	C

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LEGEND - ROADWORKS	
	FULL DEPTH CONSTRUCTION UNLESS OTHERWISE SHOWN
	ASPHALT MULTI-USE PATH
	CONCRETE SIDEWALK
	MEDIAN
	BOULEVARD
	BRICK PATTERN ADOBE RED COLOUR

Ref. No.	REFERENCE


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**Vancouver Fraser  
Port Authority**

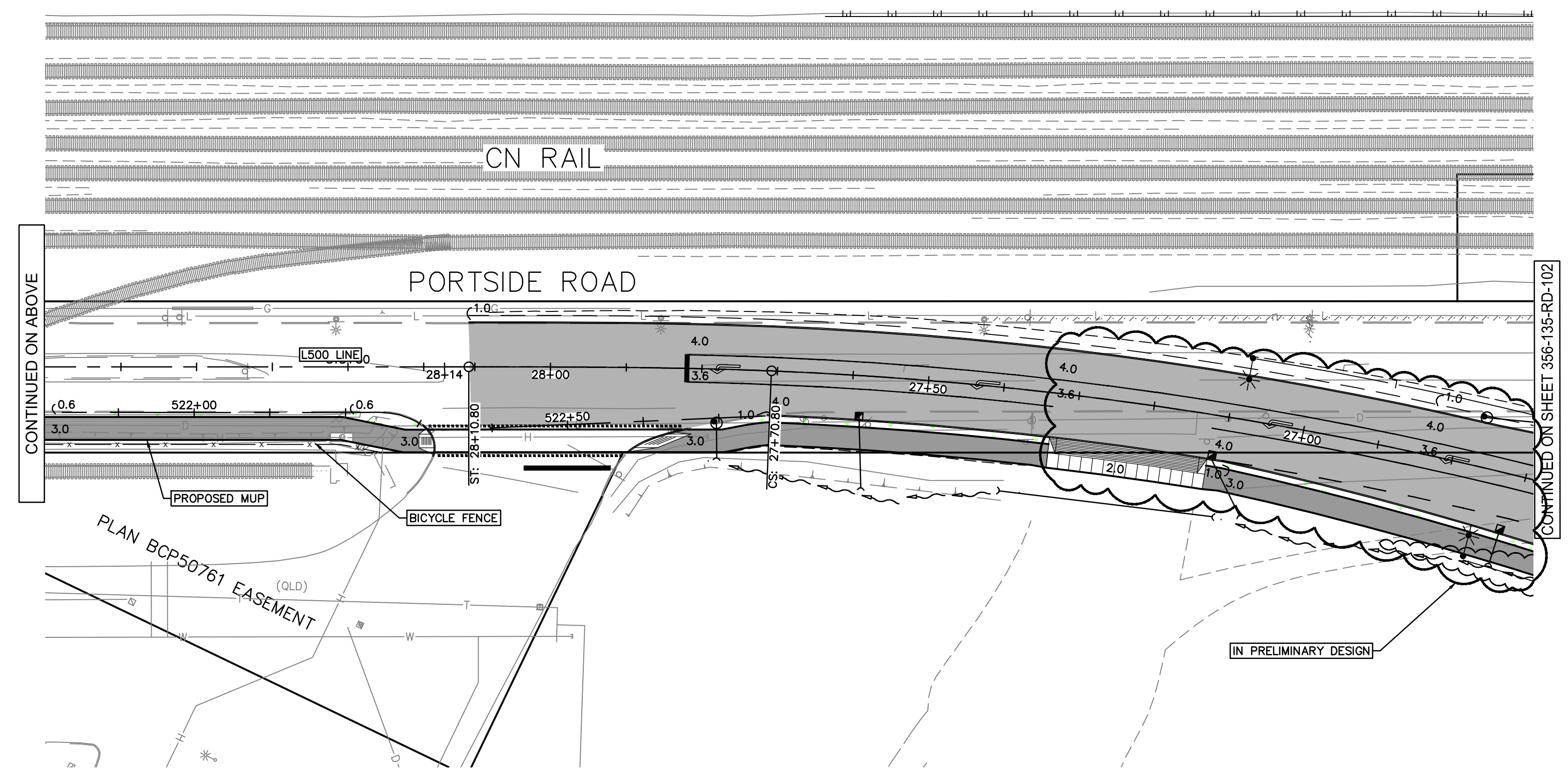
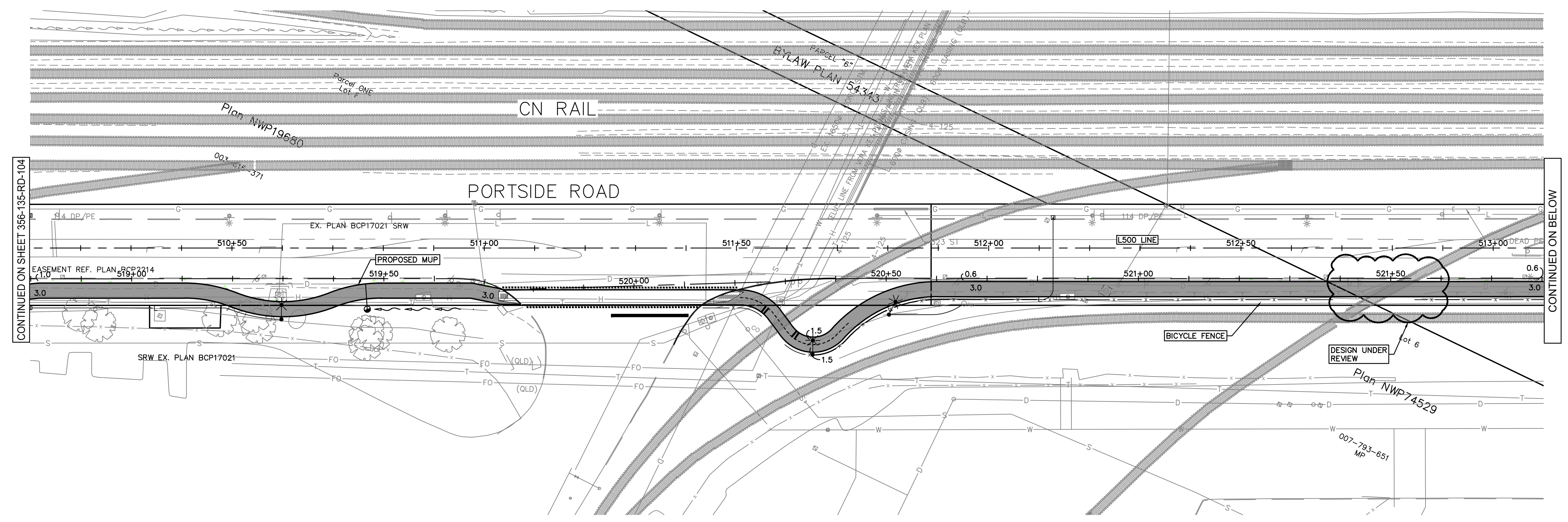
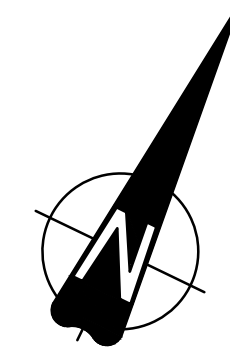
ENGINEERING DEPARTMENT

DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030  
PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
PORTSIDE ROAD  
KEY PLAN**

SIZE	DWG	356-135-RD-104	SHEET	REV
D			4 of 5	C

TITLE BLOCK CLTB.rwg



LEGEND - ROADWORKS	
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	ASPHALT MULTI-USE PATH
	CONCRETE SIDEWALK
	MEDIAN
	BOULEVARD
	BRICK PATTERN ADOBE RED COLOUR

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**LEDOR GROUP**

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A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

**PORT of vancouver**

**Vancouver Fraser Port Authority**

ENGINEERING DEPARTMENT

DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030**

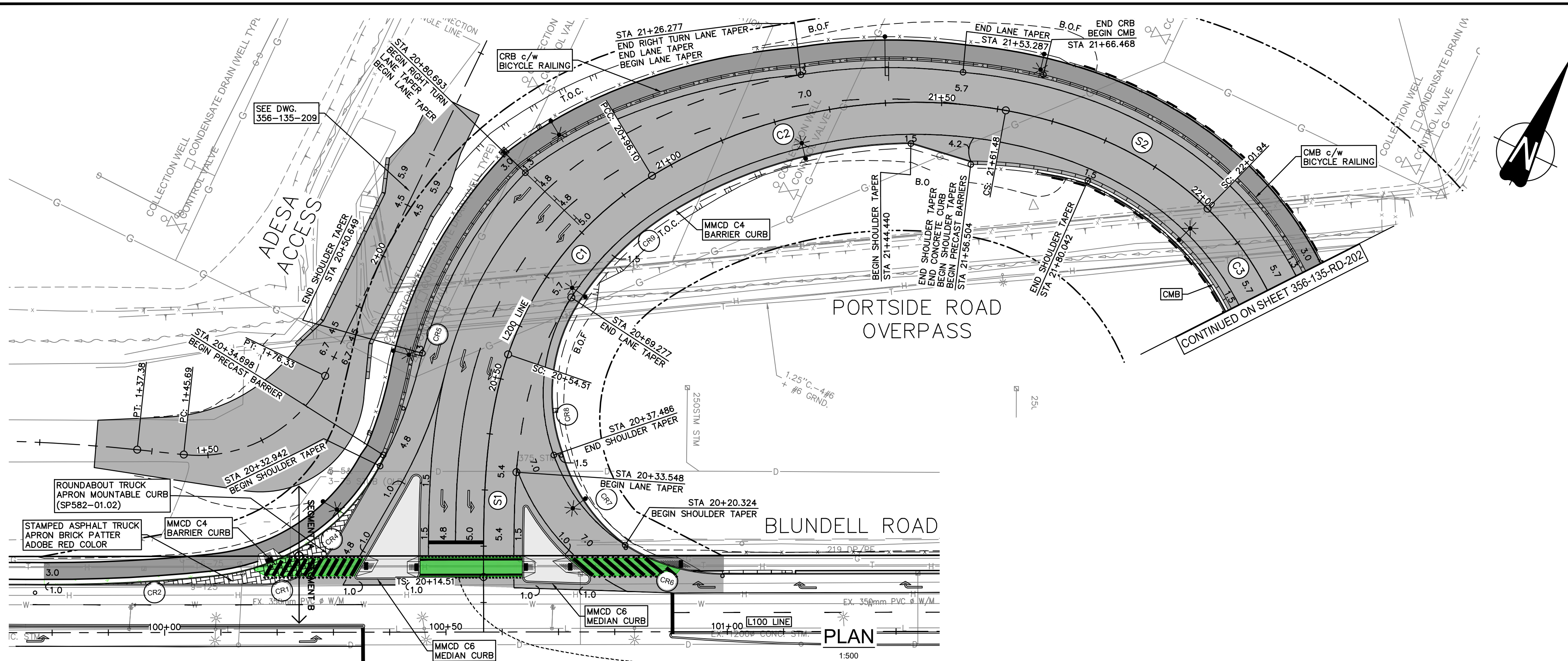
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**

**PORTSIDE ROAD**

**KEY PLAN**

SIZE	DWG	SHEET	REV
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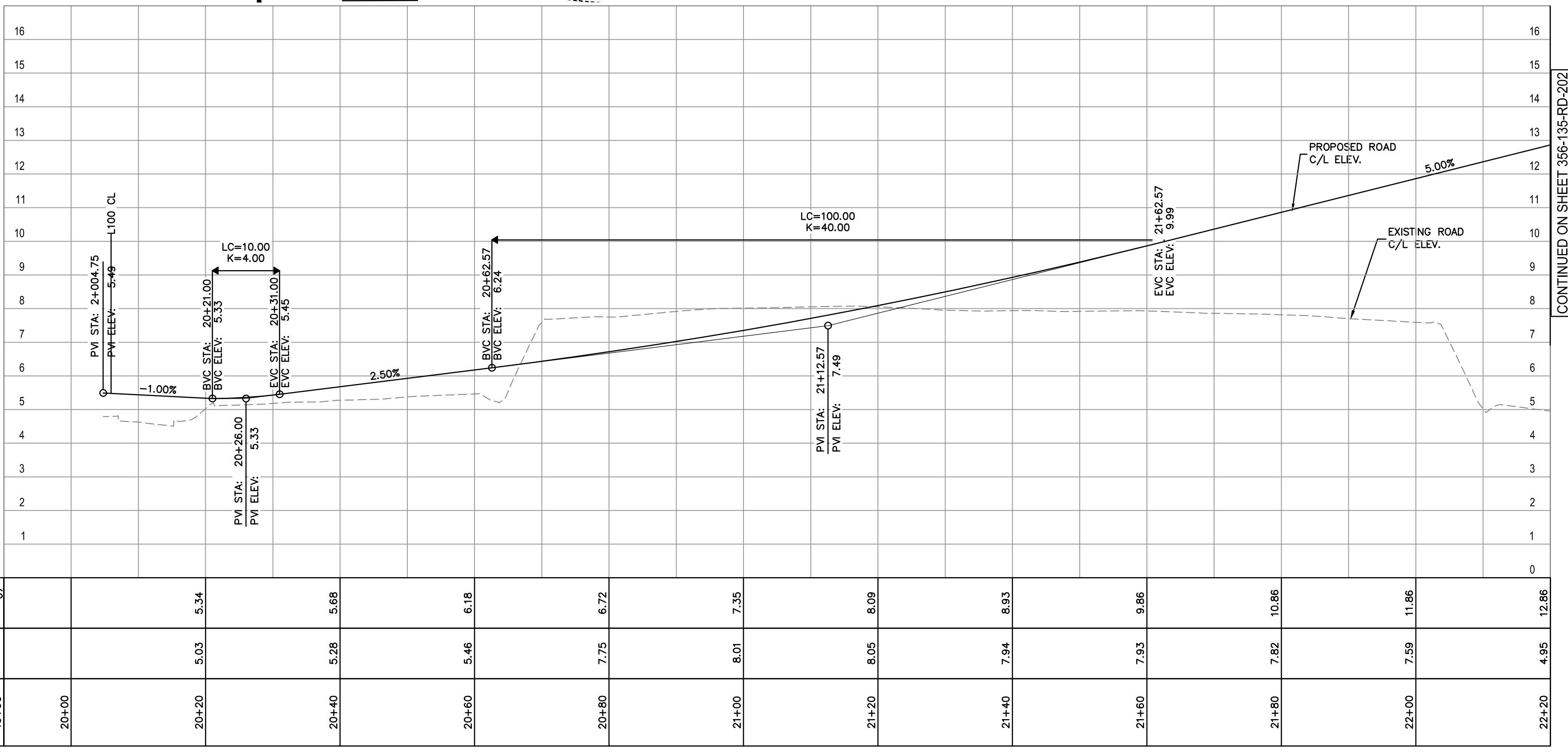
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CURVE TABLE							
CURVE No.	RADIUS	DELTA	TANGENT	LENGTH	B.C. STA	E.C. STA	C.C. COORD.
C1	60.00	39°42'48"	21.67	41.59	2+054.51	2+096.10	N 5447140.427 E 498230.327
C2	90.00	41°37'07"	34.20	65.37	2+096.10	2+161.48	N 5447124.049 E 498255.462
C3	55.00	24°46'28"	12.08	23.78	2+201.94	2+225.72	N 5447158.538 E 498253.994

SPIRAL DATA						
SPIRAL No.	A	R	L	START DIRECTION	START COORD.	END COORD.
S1	48.990	INFINITY	40.000	N25° 43' 30.30"W	N 5447095.952 E 498183.926	N 5447133.503 E 498170.728
S2	75.648	90.000	40.462	N74° 42' 19.47"E	N 5447210.862 E 498231.722	N 5447210.647 E 498271.592

CURVE RETURN TABLE							
CURVE No.	RADIUS	DELTA	TANGENT	LENGTH	B.C. STA	E.C. STA	C.C. COORD.
CR1	15.00	59°59'42"	8.66	15.71	0+000.00	0+015.71	N 5447091.220 E 498142.706
CR2	280.30	6°12'40"	15.21	30.39	1+096.54	1+126.92	N 5447313.745 E 497993.900
CR4	38.30	55°25'52"	20.12	37.05	1+059.49	1+096.54	N 5447107.726 E 498120.865
CR5	77.81	3°33'54"	2.42	4.84	1+033.21	1+038.05	N 5447140.646 E 498232.219
CR6	32.30	33°08'06"	9.61	18.68	2+021.63	2+040.31	N 5447143.683 E 498208.266
CR7	30.80	38°16'26"	10.69	20.57	2+040.31	2+060.89	N 5447141.895 E 498209.939
CR8	30.80	53°45'31"	15.61	28.90	2+060.89	2+089.79	N 5447143.683 E 498208.266
CR9	53.10	24°41'22"	11.62	22.88	2+089.79	2+112.67	N 5447140.427 E 498230.327

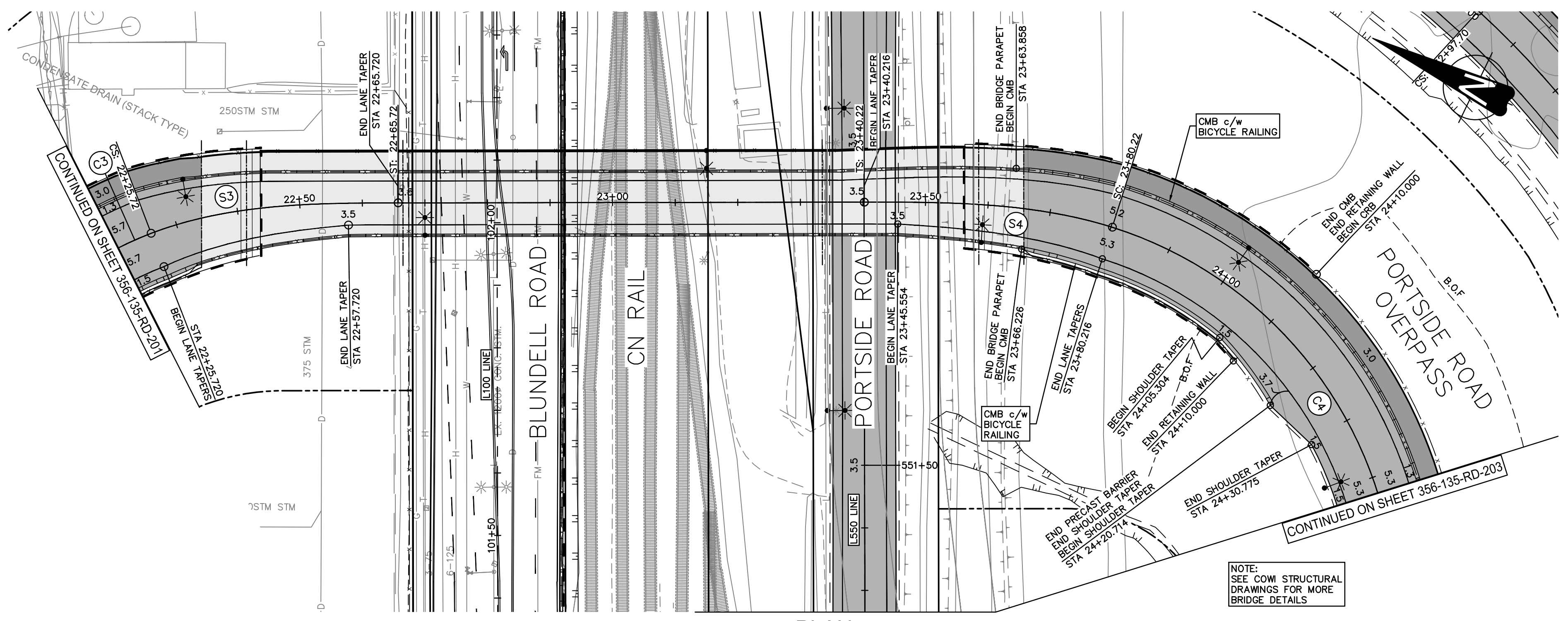


STATION	PROPOSED ELEVATIONS @ C/L OF ROAD	ORIGINAL GROUND ELEVATIONS @ C/L	ROAD C/L CHAINAGE
19+00			19+00
20+00			20+00
20+20	5.34	5.03	20+20
20+40	5.68	5.28	20+40
20+60	6.18	5.46	20+60
20+80	6.72	7.75	20+80
21+00	7.35	8.01	21+00
21+20	8.09	8.05	21+20
21+40	8.93	7.94	21+40
21+60	9.86	7.93	21+60
21+80	10.86	7.82	21+80
22+00	11.86	7.59	22+00
22+20	12.86	4.95	22+20

STATION	DESCRIPTION	MUP (LEFT)	LEFT LANE & SHLD	RIGHT LANE & SHLD
20+04.746	BEGIN ALIGNMENT			
20+12.621	TIE-IN TO BLUNDELL		-0.30%	-0.15%
20+34.514	REVERSE CROWN	-2.00%	2.00%	-2.00%
20+54.514	SC-R60	-2.00%	4.00%	-4.00%
20+91.102	EC-R60	-2.00%	4.00%	-4.00%
21+01.102	BEGIN SUPER R90	-2.00%	5.20%	-5.20%
21+61.476	END SUPER R90	-2.00%	5.20%	-5.20%
22+01.938	SC-R55	2.00%	6.00%	-6.00%
22+25.720	CS-R55	2.00%	6.00%	-6.00%
22+52.387	REVERSE CROWN	2.00%	2.00%	-2.00%
22+65.720	ST	2.00%	2.00%	-2.00%
23+40.216	TS	2.00%	2.00%	-2.00%
23+54.009	REVERSE CROWN	2.00%	2.00%	-2.00%
23+80.216	SC-R65	2.00%	5.80%	-5.80%
24+68.957	CS-R65	-2.00%	5.80%	-5.80%
26+05.927	SC-R500		-3.40%	3.40%
27+70.803	CS-R500	2.00%	-3.40%	3.40%
27+87.274	REVERSE CROWN	2.00%	-2.00%	2.00%
28+10.803	END ALIGNMENT		-2.42%	-0.70%

		<p><b>PRELIMINARY NOT FOR CONSTRUCTION</b></p>	<table border="1"> <tr> <th>No.</th> <th>Date</th> <th>REVISION</th> <th>Dr'n</th> <th>Ch'd</th> </tr> <tr> <td>C</td> <td>2022-11-18</td> <td>INDICATIVE DESIGN SUBMISSION</td> <td>ST</td> <td>LZ</td> </tr> <tr> <td>B</td> <td>2022-09-13</td> <td>INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR</td> <td>HG</td> <td>LZ</td> </tr> <tr> <td>A</td> <td>2022-06-30</td> <td>PRELIMINARY DESIGN SUBMISSION</td> <td>EY</td> <td>LZ</td> </tr> </table>	No.	Date	REVISION	Dr'n	Ch'd	C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ	B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ	A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ	<p>Vancouver Fraser Port Authority</p>	DESIGN BY: V. MAK DRAWN BY: E. YANG APPROVED: L. ZAREI DATE: 2022-06-30 SCALE: 1:500 VPPA SITE: 356	<p><b>GREATER VANCOUVER GATEWAY 2030</b>  <b>PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT</b>  <b>PORTSIDE ROAD</b>  <b>ROAD PLAN AND PROFILE</b></p>	SHEET: 1 of 12 REV: C
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 DATE: 20221118 - 6:00pm  
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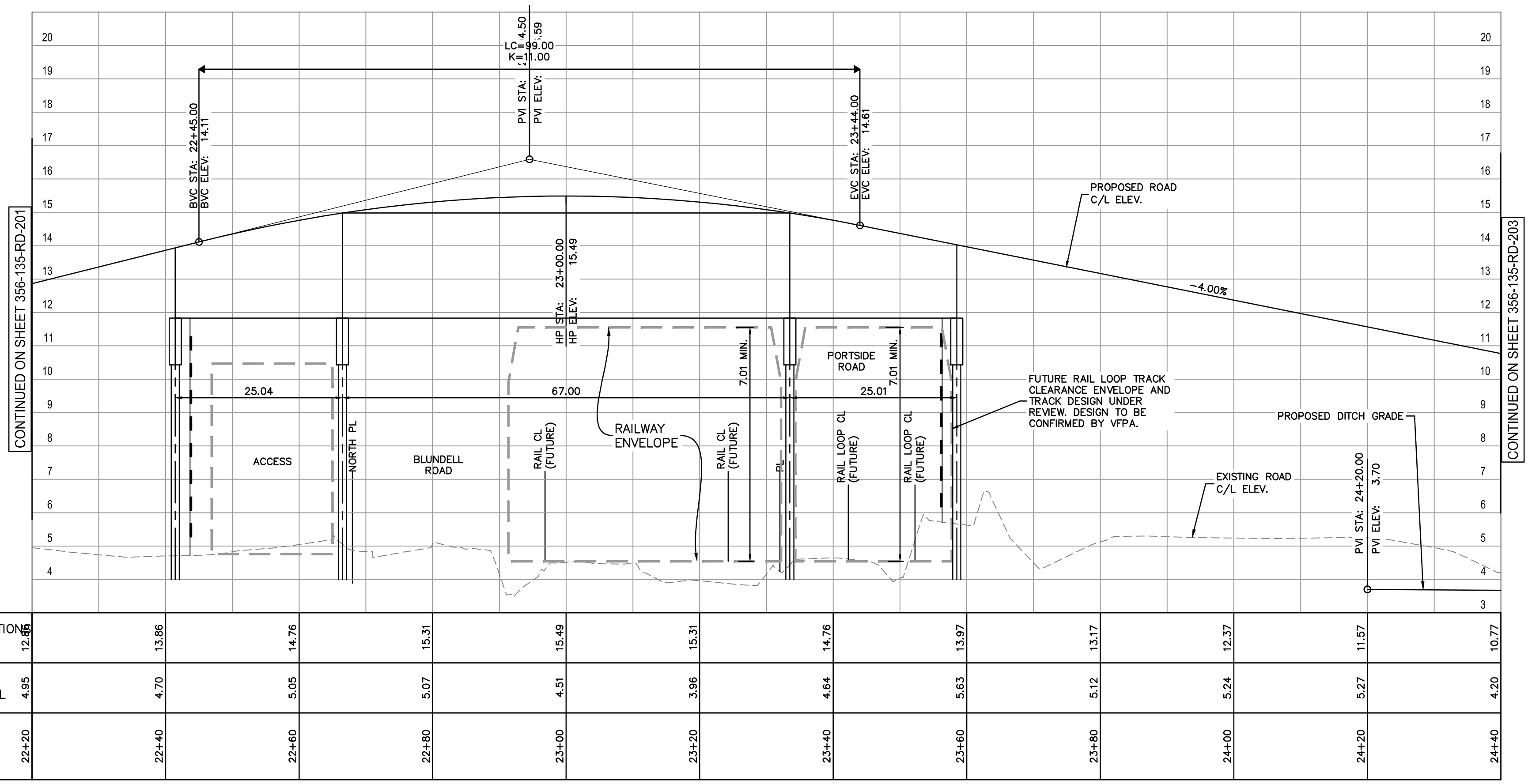
**PLAN**  
1:500

NOTE:  
 FOR L200 SUPERELEVATION INFORMATION,  
 SEE TABLE ON DWG. 365-135-RD-201

CURVE TABLE							
CURVE No.	RADIUS	DELTA	TANGENT	LENGTH	B.C. STA	E.C. STA	C.C. COORD.
C3	55.00	24°46'28"	12.08	23.78	2+201.94	2+225.72	N 5447158.538 E 498253.994
C4	65.00	78°13'22"	52.85	88.74	2+380.22	2+468.96	N 5447051.269 E 498294.792

SPIRAL DATA						
SPIRAL No.	A	R	L	START DIRECTION	START COORD.	END COORD.
S3	46.904	55.000	40.000	S46° 33' 53.45"E	N 5447198.476 E 498291.808	N 5447165.001 E 498313.272
S4	50.990	INFINITY	40.000	S25° 43' 48.07"E	N 5447097.891 E 498345.613	N 5447060.428 E 498359.144

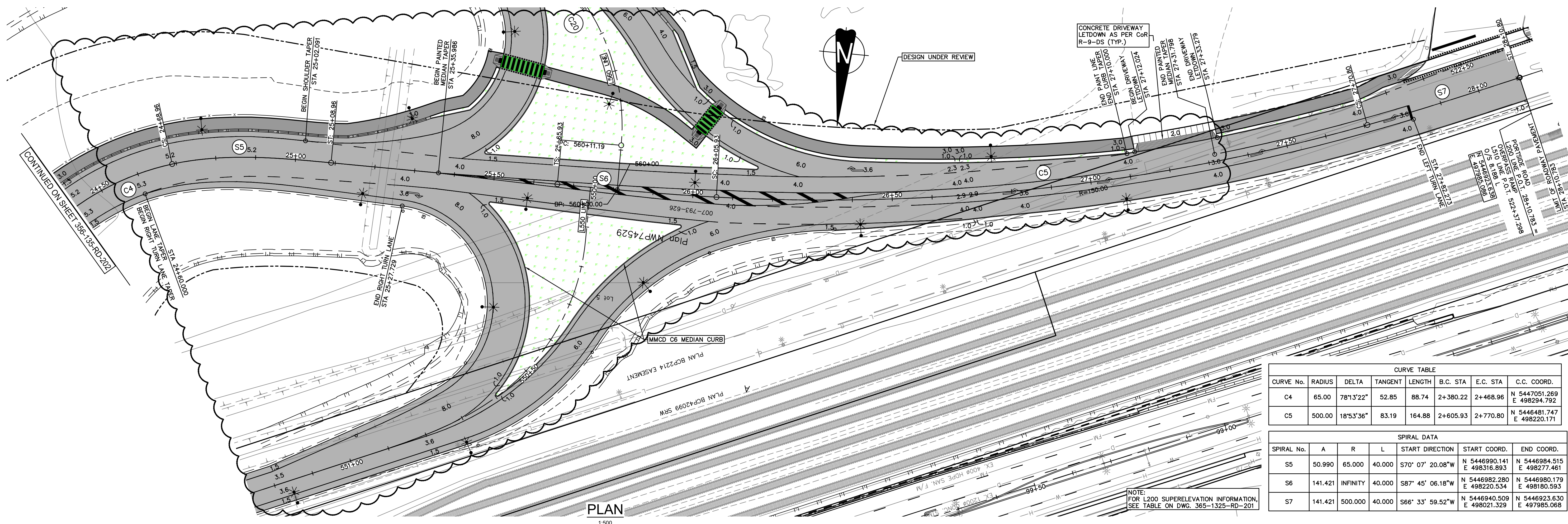


**PROFILE**  
 HOR. 1:500  
 VERT. 1:100

PROPOSED ELEVATION @ C/L OF ROAD	12.86	13.86	14.76	15.31	15.49	15.31	14.76	13.97	13.17	12.37	11.57	10.77
ORIGINAL GROUND ELEVATIONS @ C/L	4.95	4.70	5.05	5.07	4.51	3.96	4.64	5.63	5.12	5.24	5.27	4.20
ROAD C/L CHAINAGE	22+20	22+40	22+60	22+80	23+00	23+20	23+40	23+60	23+80	24+00	24+20	24+40

Ref. No. REFERENCE			PRELIMINARY NOT FOR CONSTRUCTION		No. Date REVISION Dr'n Ch'd	 Vancouver Fraser Port Authority ENGINEERING DEPARTMENT	DESIGN BY V. MAK	GREATER VANCOUVER GATEWAY 2030 PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT PORTSIDE ROAD OVERPASS ROAD PLAN AND PROFILE	SHEET 2 of 12
	DRAWN BY E. YANG	DATE 2022-06-30	SCALE 1:500	VPPA SITE 356			REV C		
	APPROVED L. ZAREI	VPPA SITE 356	356-135-RD-202						
	THIS DRAWING HAS NOT BEEN APPROVED AND MAY CONTAIN ERRORS AND OMISSIONS	Suite 2300 13450 102nd Avenue Surrey BC Canada V3T 5X3 T 604 596 0391							



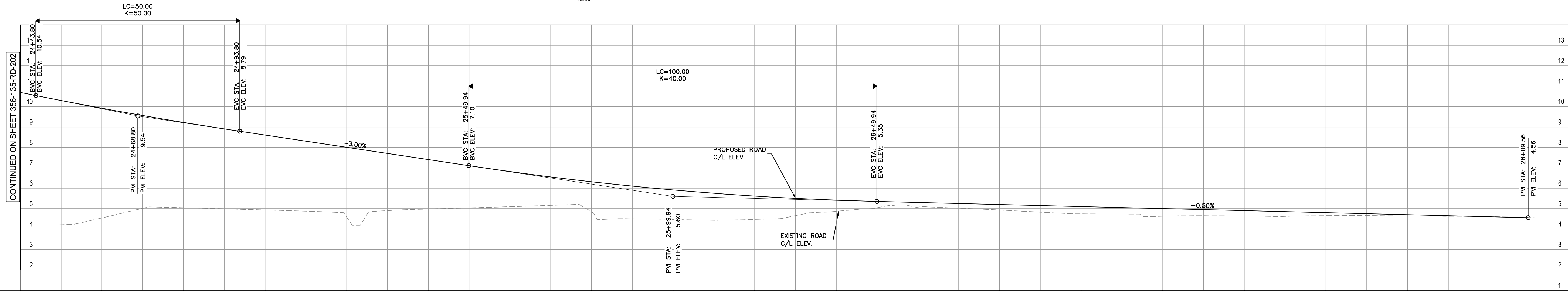


CURVE TABLE							
CURVE No.	RADIUS	DELTA	TANGENT	LENGTH	B.C. STA	E.C. STA	C.C. COORD.
C4	65.00	78°13'22"	52.85	88.74	2+380.22	2+468.96	N 5447051.269 E 498294.792
C5	500.00	18°53'36"	83.19	164.88	2+605.93	2+770.80	N 5446481.747 E 498220.171

SPIRAL DATA						
SPIRAL No.	A	R	L	START DIRECTION	START COORD.	END COORD.
S5	50.990	65.000	40.000	S70° 07' 20.08"W	N 5446990.141 E 498316.893	N 5446984.515 E 498277.461
S6	141.421	INFINITY	40.000	S87° 45' 06.18"W	N 5446982.280 E 498220.534	N 5446980.179 E 498180.593
S7	141.421	500.000	40.000	S66° 33' 59.52"W	N 5446940.509 E 498021.329	N 5446923.630 E 497985.068

NOTE:  
 FOR L200 SUPERELEVATION INFORMATION,  
 SEE TABLE ON DWG. 365-1325-RD-201

PLAN  
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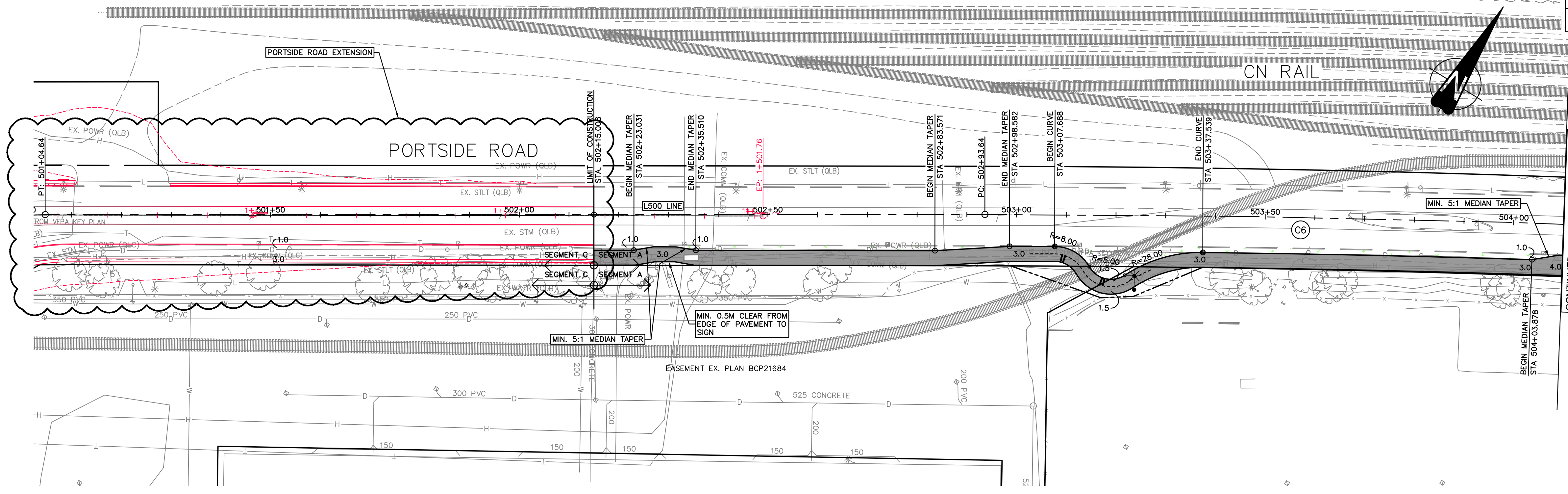
PROPOSED ELEVATION @ C/L OF ROAD	ORIGINAL GROUND ELEVATIONS @ C/L	ROAD C/L CHAINAGE
10.69	4.20	24+40
9.92	4.55	24+60
9.22	5.05	24+80
8.60	4.94	25+00
8.00	4.58	25+20
7.40	4.98	25+40
6.82	5.10	25+60
6.32	4.84	25+80
5.92	4.47	26+00
5.62	4.48	26+20
5.42	4.87	26+40
5.30	5.07	26+60
5.20	4.93	26+80
5.10	4.75	27+00
5.00	4.63	27+20
4.90	4.64	27+40
4.80	4.66	27+60
4.70	4.64	27+80
4.60	4.62	28+00
4.56		28+20

PROFILE  
 HOR. 1:500  
 VERT. 1:100

		<p>PRELIMINARY NOT FOR CONSTRUCTION</p>	<p>THIS DRAWING HAS NOT BEEN APPROVED AND MAY CONTAIN ERRORS AND OMISSIONS</p>	C 2022-11-18 INDICATIVE DESIGN SUBMISSION ST LZ		DESIGN BY V. MAK	<p>GREATER VANCOUVER GATEWAY 2030                  PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT                  PORTSIDE ROAD                  ROAD PLAN AND PROFILE</p>	SHEET 3 of 12	REV C
				B 2022-09-13 INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR HG LZ		DRAWN BY E. YANG			
A 2022-06-30 PRELIMINARY DESIGN SUBMISSION EY LZ	APPROVED L. ZAREI								
No. Date REVISION Dr'n Ch'd	DATE 2022-06-30								
No. Date REVISION Dr'n Ch'd	SCALE 1:500								
						VPPA SITE 356	SIZE DWG 356-135-RD-203		

TITLE BLOCK CL-TB.rwg

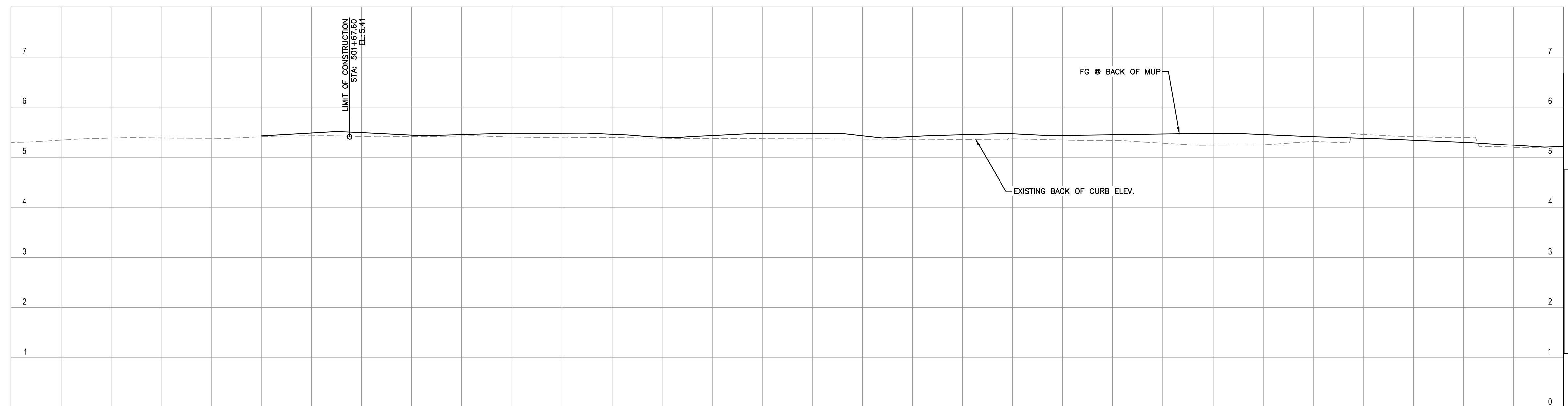
CURVE TABLE						
CURVE No.	RADIUS	DELTA	TANGENT LENGTH	B.C. STA	E.C. STA	C.C. COORD.
C6	3500.00	6'03'53"	185.41	370.47	50+293.64	N 5443465.891 E 498871.987



**PLAN**  
1:500

CONTINUED ON SHEET 356-135-RD-205

CONTINUED ON SHEET 356-135-RD-205



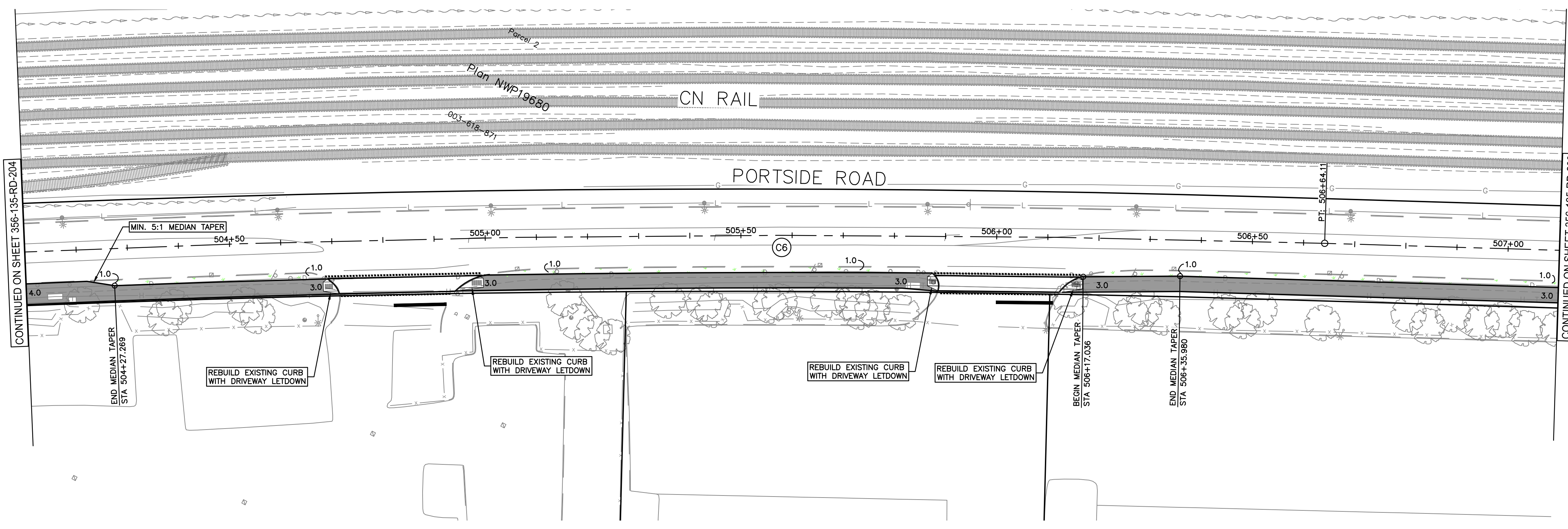
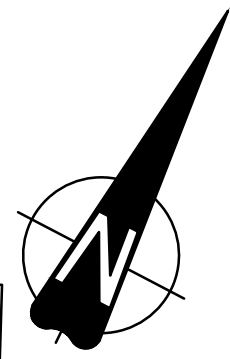
**PROFILE**  
HOR. 1:500  
VERT. 1:50

PROPOSED BACK OF MUP ELEVATIONS	5.30	5.39	5.38	5.49	5.44	5.48	5.46	5.44	5.48	5.42	5.47	5.45	5.48	5.41	5.34	5.24	5.21
EXISTING BACK OF CURB ELEVATIONS	5.30	5.39	5.38	5.43	5.42	5.41	5.40	5.38	5.37	5.36	5.37	5.34	5.24	5.32	5.41	5.20	5.18
ROAD C/L CHAINAGE	501+00	501+20	501+40	501+60	501+80	502+00	502+20	502+40	502+60	502+80	503+00	503+20	503+40	503+60	503+80	504+00	504+10

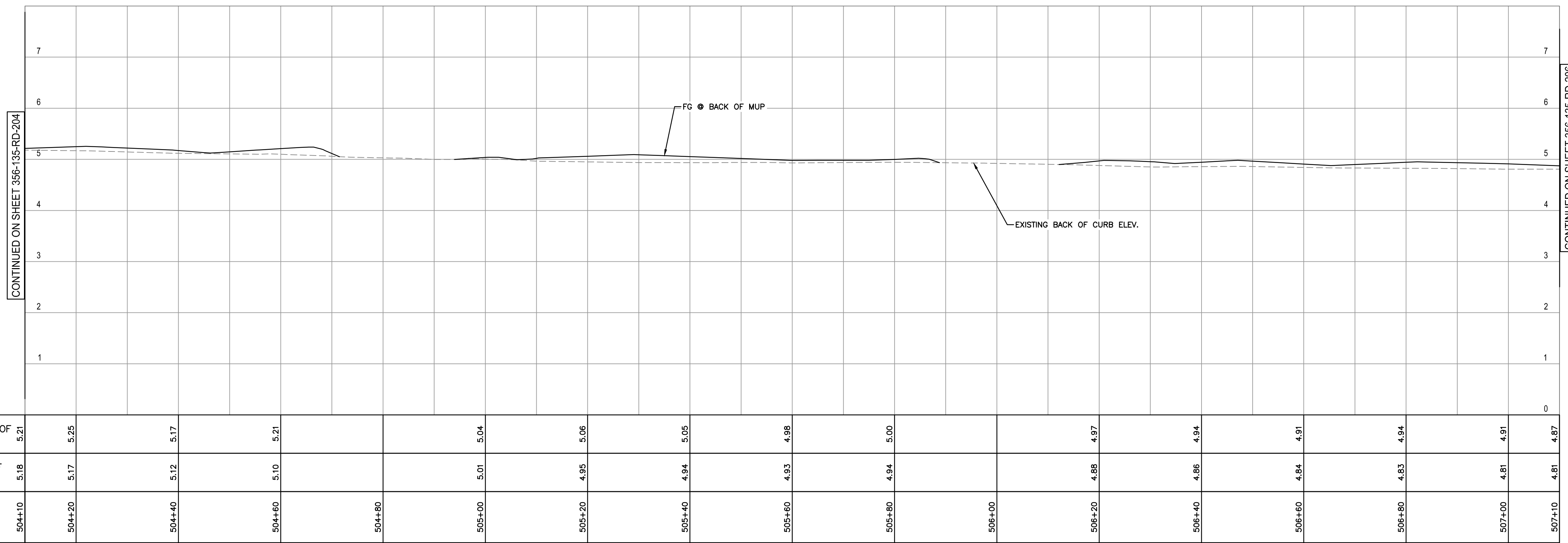
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Ref. No.	REFERENCE	 Suite 2300 13450 102nd Avenue Surrey BC Canada V3T 5X3 T 604 596 0391	<p><b>PRELIMINARY NOT FOR CONSTRUCTION</b></p> <p><small>THIS DRAWING HAS NOT BEEN APPROVED AND MAY CONTAIN ERRORS AND OMISSIONS</small></p>	C 2022-11-18 INDICATIVE DESIGN SUBMISSION ST LZ	 Vancouver Fraser Port Authority ENGINEERING DEPARTMENT	DESIGN BY V. MAK DRAWN BY E. YANG APPROVED L. ZAREI DATE 2022-06-30 SCALE 1:500 VPPA SITE 356	<p><b>GREATER VANCOUVER GATEWAY 2030</b>  <b>PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT</b>  <b>PORTSIDE ROAD</b>  <b>ROAD PLAN AND PROFILE</b></p>	SIZE DWG D 356-135-RD-204	SHEET 4 of 12	REV C
				No. Date REVISION Dr'n Ch'd						

CURVE TABLE						
CURVE No.	RADIUS	DELTA	TANGENT LENGTH	B.C. STA	E.C. STA	C.C. COORD.
C6	3500.00	6°03'53"	185.41	370.47	50+293.64	N 5443465.891 E 498871.987



**PLAN**  
1:500



**PROFILE**  
HOR. 1:500  
VERT. 1:50

PROPOSED BACK OF MUP ELEVATIONS	5.21	5.25	5.17	5.21	5.04	5.06	5.05	4.98	5.00	4.97	4.94	4.91	4.94	4.91	4.87
EXISTING BACK OF CURB ELEVATIONS	5.18	5.17	5.12	5.10	5.01	4.95	4.94	4.93	4.94	4.88	4.86	4.84	4.83	4.81	4.81
ROAD C/L CHAINAGE	504+10	504+20	504+40	504+60	504+80	505+00	505+20	505+40	505+60	505+80	506+00	506+20	506+40	506+60	507+10

TITLE BLOCK CL-TR.dwg  
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Ref. No.	REFERENCE

**LED COR GROUP**

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13450 102nd Avenue  
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Canada V3T 5X3  
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No.	Date	REVISION	Dr'n	Ch'd
C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

**PORT of vancouver**

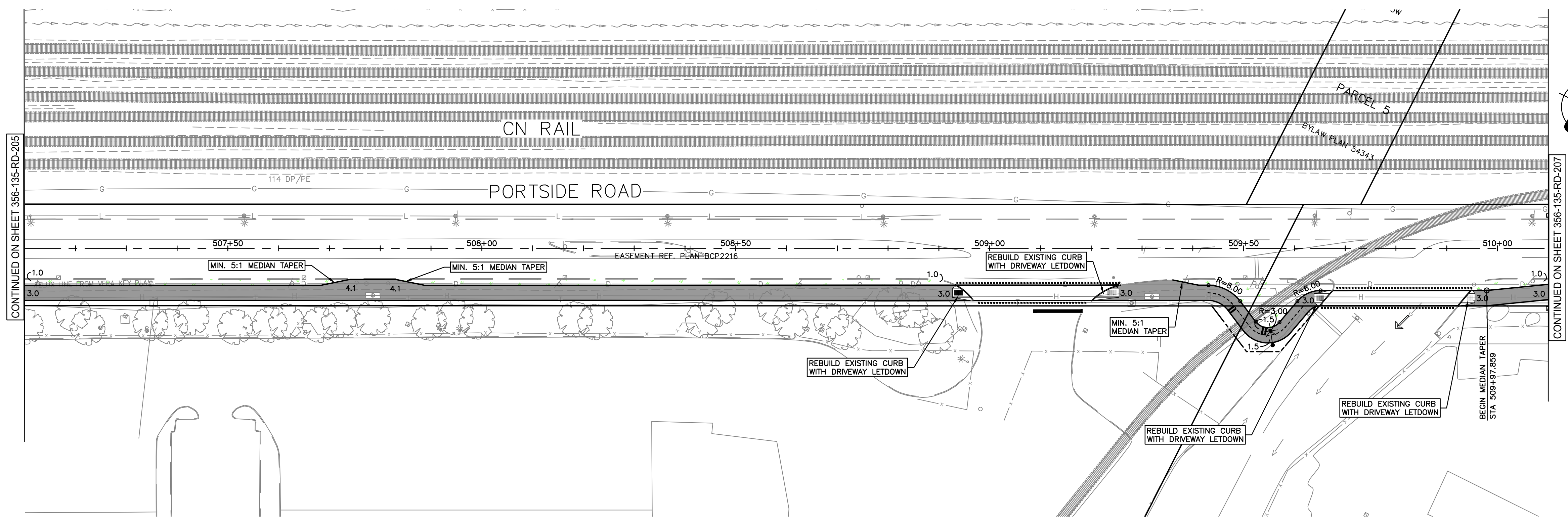
Vancouver Fraser  
Port Authority

ENGINEERING DEPARTMENT

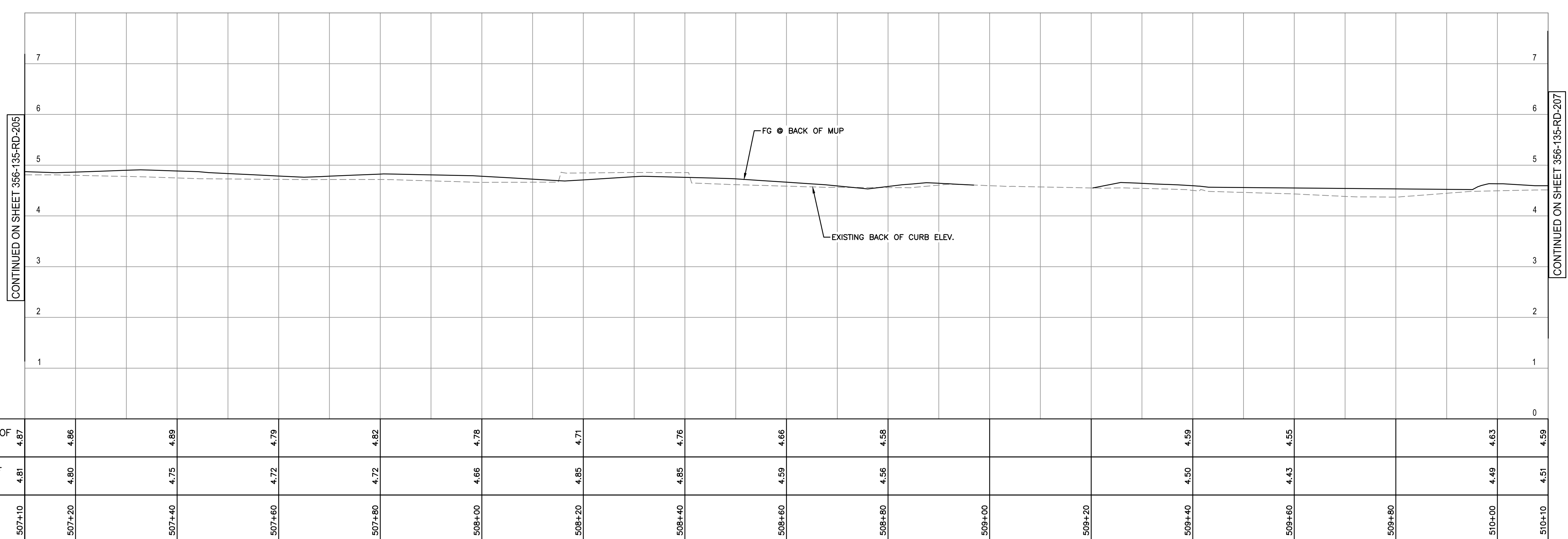
DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030  
PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
PORTSIDE ROAD  
ROAD PLAN AND PROFILE**

SIZE	DWG	356-135-RD-205	SHEET	5 of 12	REV	C
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PLAN  
1:500



PROFILE  
HOR. 1:500  
VERT. 1:50

PROPOSED BACK OF MUP ELEVATIONS	4.87	4.86	4.89	4.79	4.82	4.78	4.71	4.76	4.66	4.58	4.59	4.55	4.63	4.59
EXISTING BACK OF CURB ELEVATIONS	4.81	4.80	4.75	4.72	4.72	4.66	4.85	4.85	4.59	4.56	4.50	4.43	4.49	4.51
ROAD C/L CHAINAGE	507+10	507+20	507+40	507+60	507+80	508+00	508+20	508+40	508+60	508+80	509+00	509+20	509+40	509+60

Ref. No.	REFERENCE

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No.	Date	REVISION	Dr'n	Ch'd
C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

**PORT of vancouver**

Vancouver Fraser Port Authority

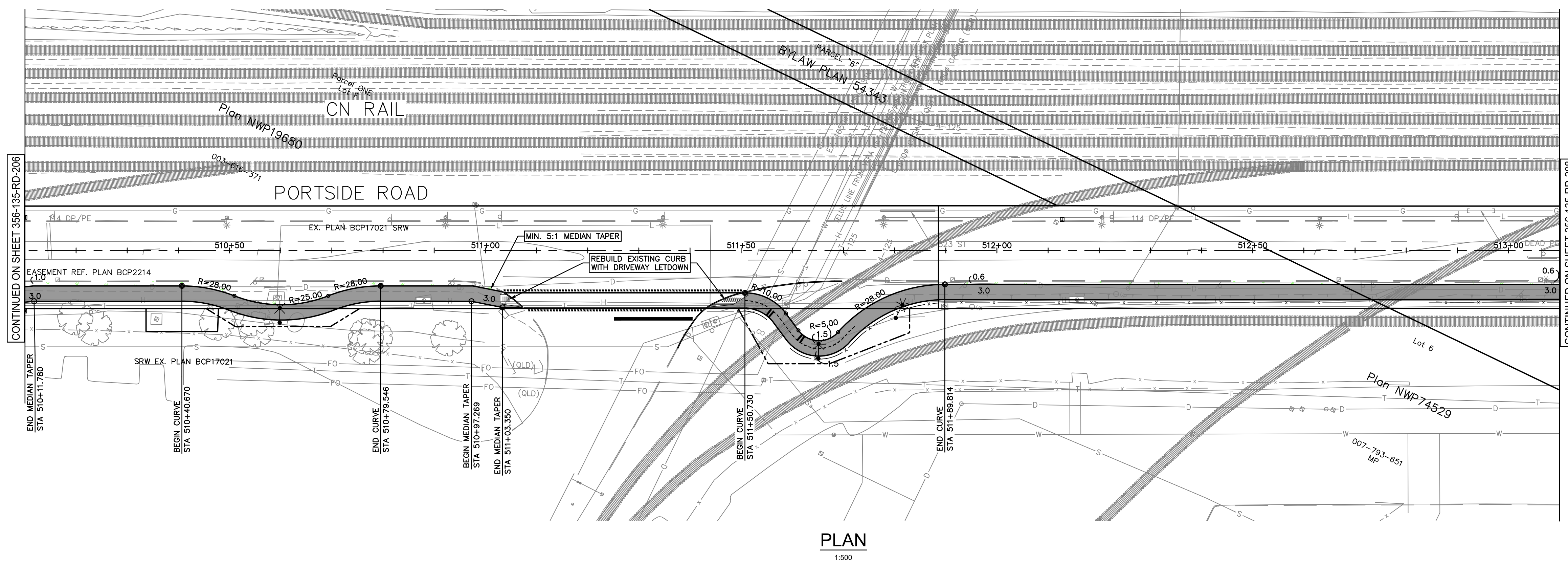
ENGINEERING DEPARTMENT

DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

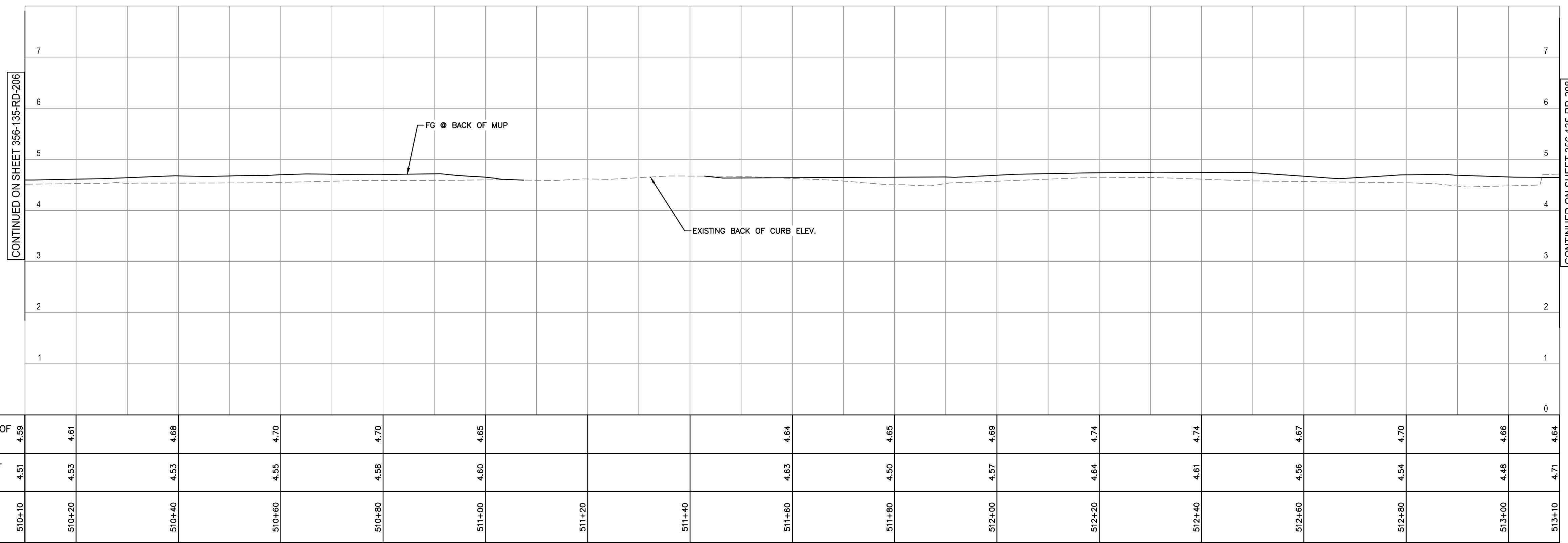
**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD**  
**ROAD PLAN AND PROFILE**

SIZE	DWG	356-135-RD-206	SHEET	6 of 12	REV	C
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PLAN  
1:500



PROFILE  
 HOR. 1:500  
 VERT. 1:50

PROPOSED BACK OF MUP ELEVATIONS	EXISTING BACK OF CURB ELEVATIONS	ROAD C/L CHAINAGE
4.59	4.51	510+10
4.61	4.53	510+20
4.68	4.53	510+40
4.70	4.55	510+60
4.70	4.58	510+80
4.65	4.60	511+00
4.64	4.63	511+60
4.65	4.50	511+80
4.69	4.57	512+00
4.74	4.64	512+20
4.74	4.61	512+40
4.67	4.56	512+60
4.70	4.54	512+80
4.66	4.48	513+00
4.64	4.71	513+10

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No.	Date	REVISION	Dr'n	Ch'd
C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

**PORT of vancouver**

Vancouver Fraser Port Authority

ENGINEERING DEPARTMENT

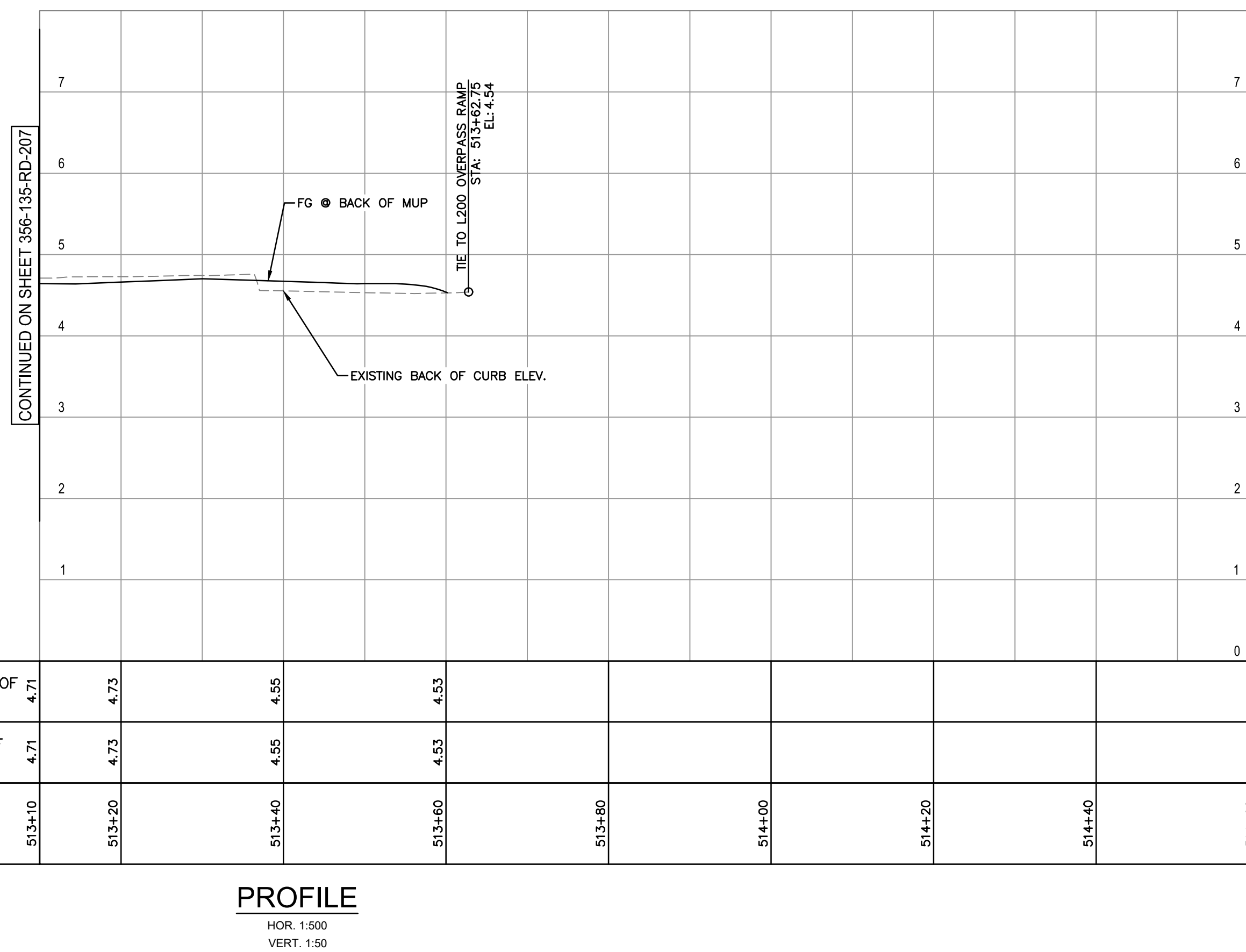
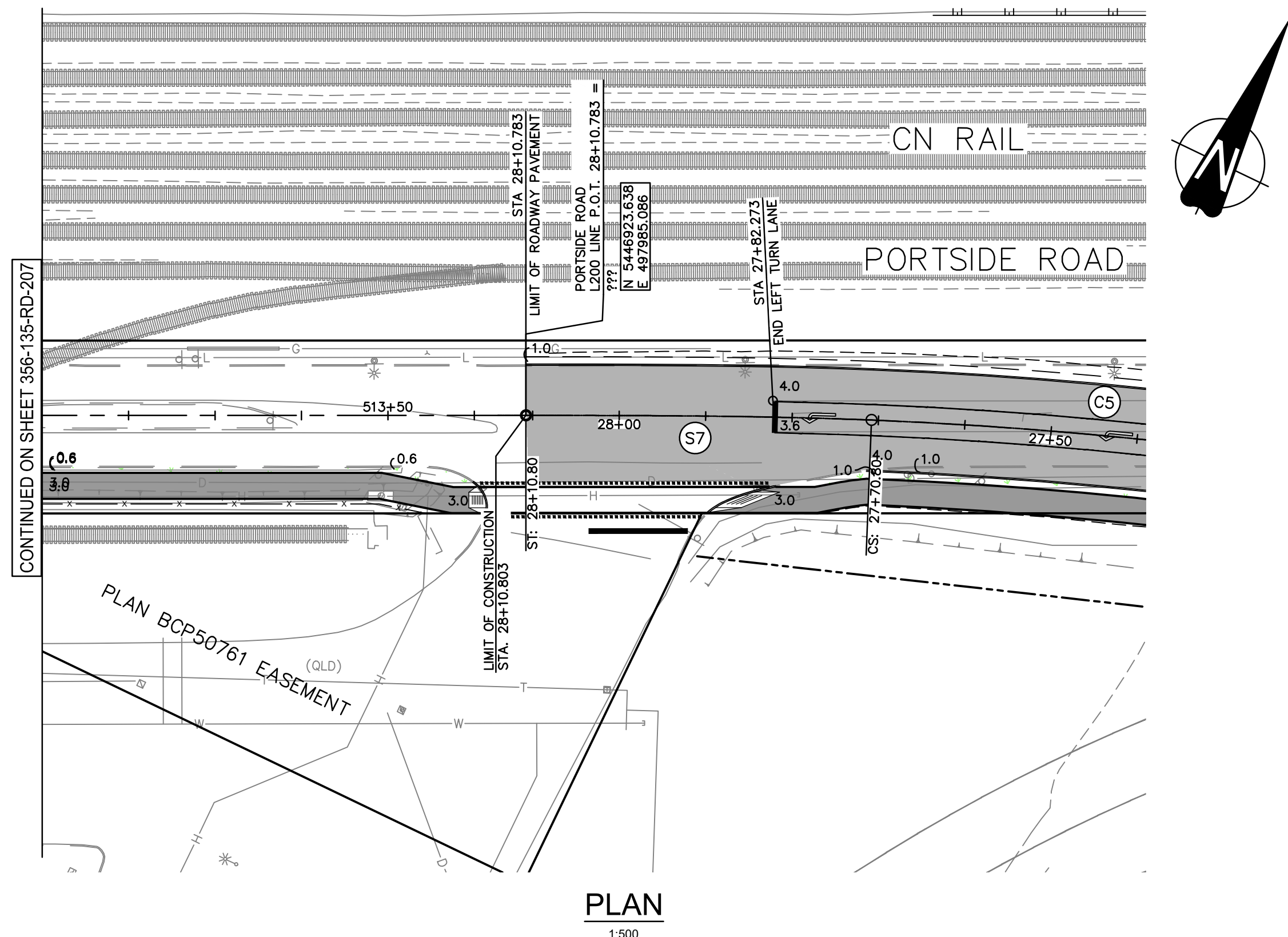
DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD**  
**ROAD PLAN AND PROFILE**

SIZE	DWG	SHEET	REV
D	356-135-RD-207	7 of 12	C

CURVE TABLE						
CURVE No.	RADIUS	DELTA	TANGENT LENGTH	B.C. STA	E.C. STA	C.C. COORD.
C5	500.00	18°53'36"	83.19	164.88	2+605.93	N 5446481.747 E 498220.171

SPIRAL DATA						
SPIRAL No.	A	R	L	START DIRECTION	START COORD.	END COORD.
S7	141.421	500.000	40.000	S66° 33' 59.52"W	N 5446940.509 E 498021.329	N 5446923.630 E 497985.068



TITLE BLOCK CL-TR.dwg

DATE: 2022/11/8 - 8:00pm  
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Ref. No.	REFERENCE



Suite 2300  
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THIS DRAWING HAS NOT BEEN APPROVED  
AND MAY CONTAIN ERRORS AND OMISSIONS

No.	Date	REVISION	Dr'n	Ch'd
C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

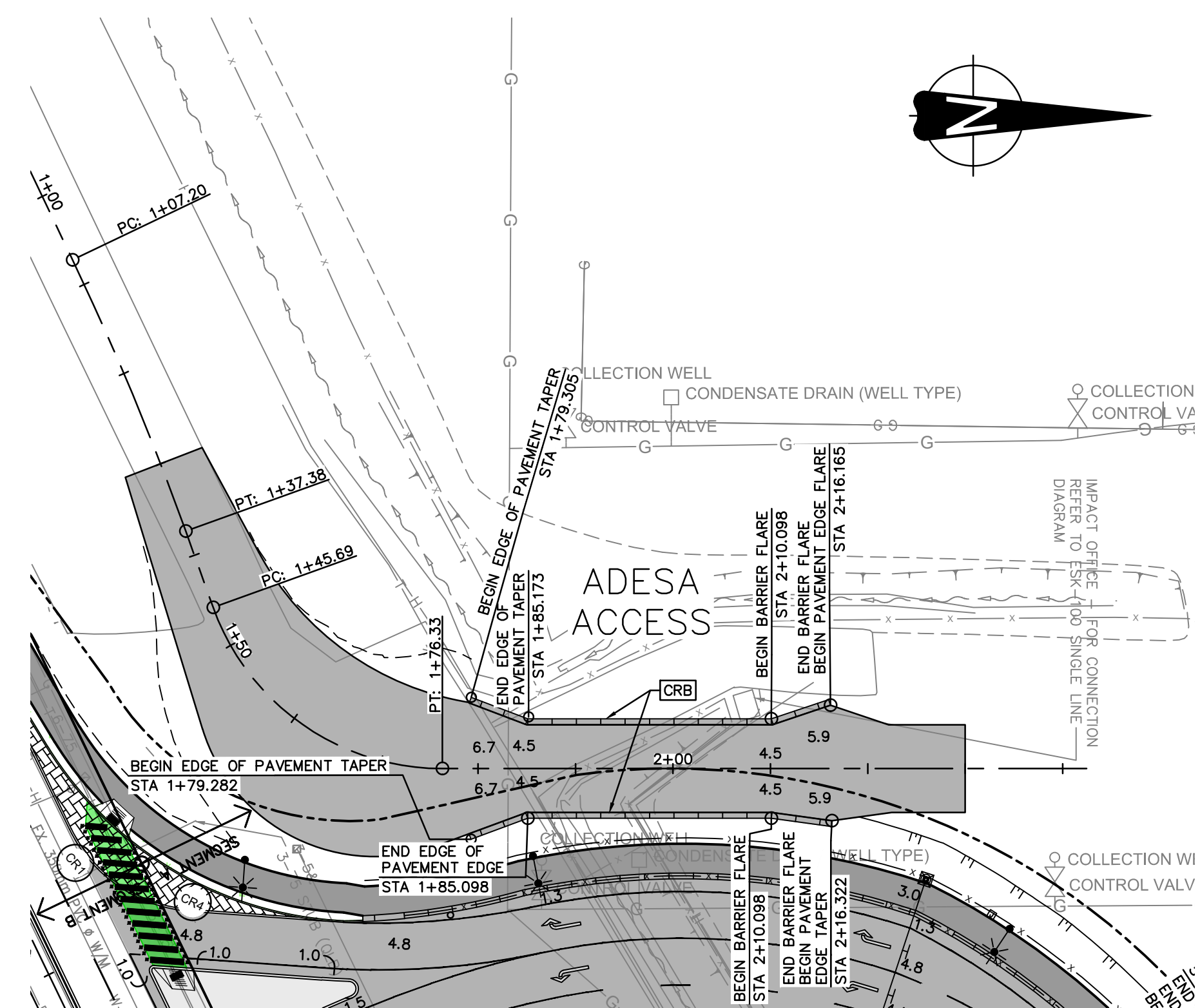
ENGINEERING DEPARTMENT

DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VPFA SITE	356

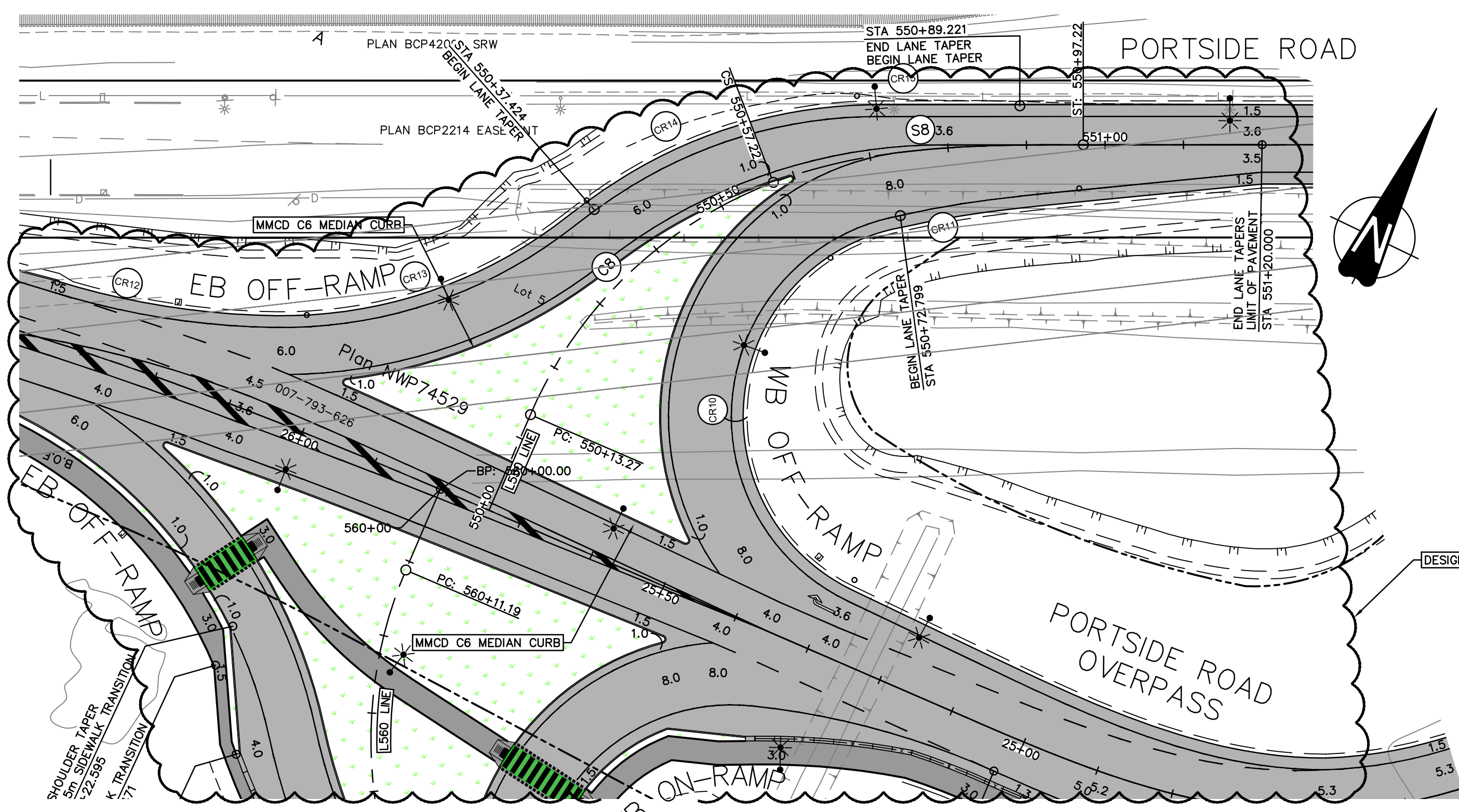
**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD**  
**ROAD PLAN AND PROFILE**

SIZE	DWG	SHEET	REV
D	356-135-RD-208	8 of 12	C

TITLE BLOCK CL-TB.rvt  
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**PLAN**  
1:500



**PLAN**  
1:500

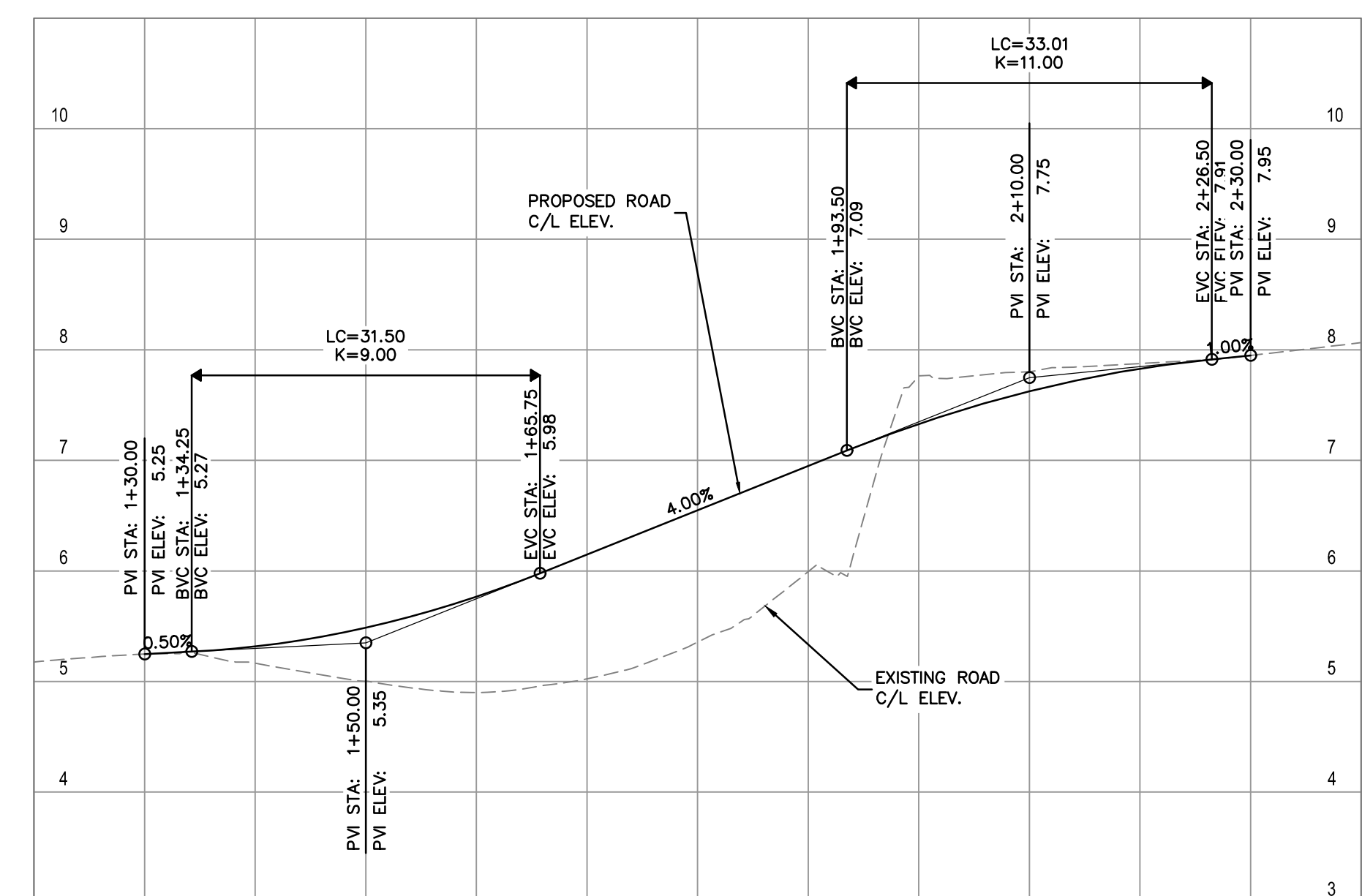
CURVE No.	RADIUS	DELTA	TANGENT	LENGTH	B.C. STA	E.C. STA	C.C. COORD.
C8	55.00	45°47'20"	23.23	43.95	55+013.27	55+057.22	N 5446997.458 E 498266.623

SPIRAL DATA						
SPIRAL No.	A	R	L	START DIRECTION	START COORD.	END COORD.
SB	46.904	55.000	40.000	N43° 26' 23.54"E	N 5447035.276 E 498226.688	N 5447058.737 E 498260.165

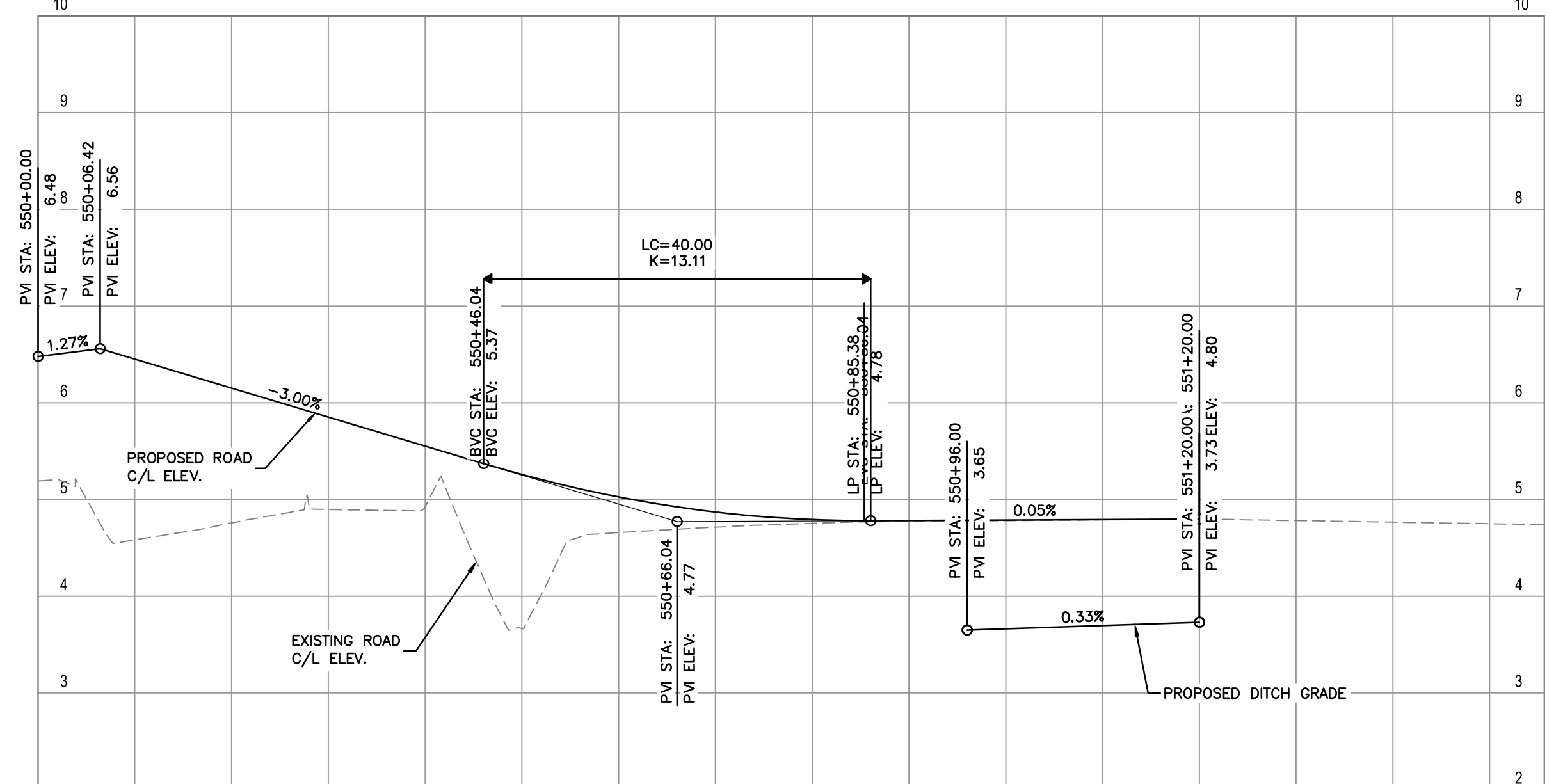
  

CURVE RETURN TABLE							
CURVE No.	RADIUS	DELTA	TANGENT	LENGTH	B.C. STA	E.C. STA	C.C. COORD.
CR10	23.50	122°17'27"	42.65	50.16	1+019.22	1+069.37	N 5447017.629 E 498257.522
CR11	48.50	24°57'13"	10.73	21.12	1+069.37	1+090.50	N 5447004.689 E 498278.913
CR12	88.50	20°50'54"	16.28	32.20	1+128.25	1+160.45	N 5447071.837 E 498137.880
CR13	58.50	38°26'57"	20.40	39.26	1+088.99	1+128.25	N 5447045.545 E 498152.327
CR14	65.50	20°40'19"	11.95	23.63	1+065.36	1+088.99	N 5446993.151 E 498264.620
CR15	106.75	2°13'21"	2.07	4.14	1+042.77	1+046.91	N 5446958.796 E 498287.285



**PROFILE**  
HOR: 1:500  
VERT: 1:50

PROPOSED ELEVATIONS @ C/L OF ROAD	1+20	1+40	1+60	1+80	2+00	2+20	2+40
ORIGINAL GROUND ELEVATIONS @ C/L							
ROAD C/L CHAINAGE	1+20	1+40	1+60	1+80	2+00	2+20	2+40



**PROFILE**  
HOR: 1:500  
VERT: 1:50

PROPOSED ELEVATION @ C/L OF ROAD	550+00	550+20	550+40	550+60	550+80	551+00	551+20	551+40	551+50.66
ORIGINAL GROUND ELEVATIONS @ C/L									
ROAD C/L CHAINAGE	550+00	550+20	550+40	550+60	550+80	551+00	551+20	551+40	551+50.66

Ref. No.	REFERENCE

**LEDCOR GROUP**  
 Suite 2300  
 13450 102nd Avenue  
 Surrey BC  
 Canada V3T 5X3  
 T 604 596 0391

No.	Date	REVISION	Dr'n	Ch'd
C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

PRELIMINARY NOT FOR CONSTRUCTION  
 THIS DRAWING HAS NOT BEEN APPROVED AND MAY CONTAIN ERRORS AND OMISSIONS

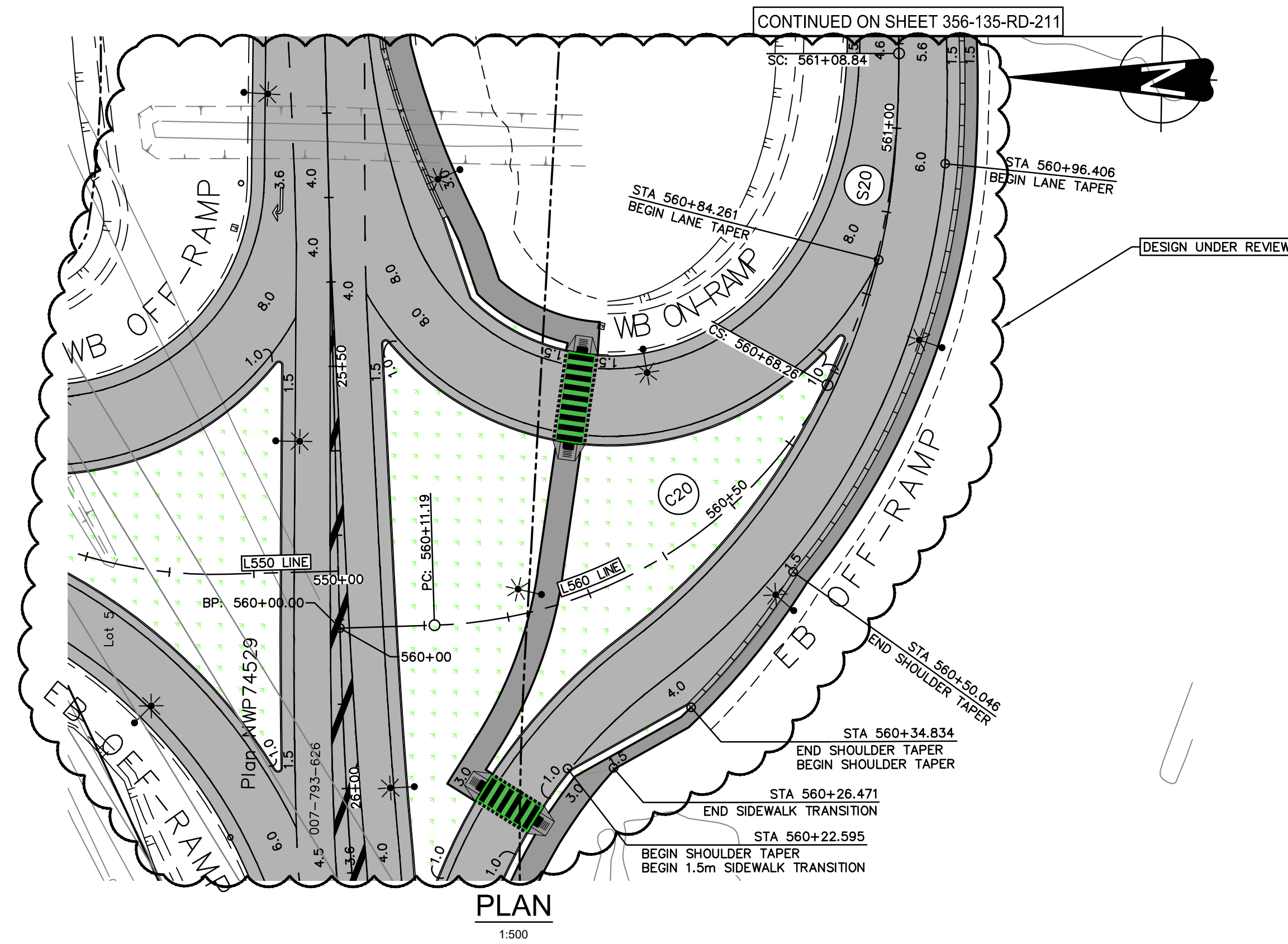
**PORT of vancouver**  
**Vancouver Fraser Port Authority**  
 ENGINEERING DEPARTMENT

DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

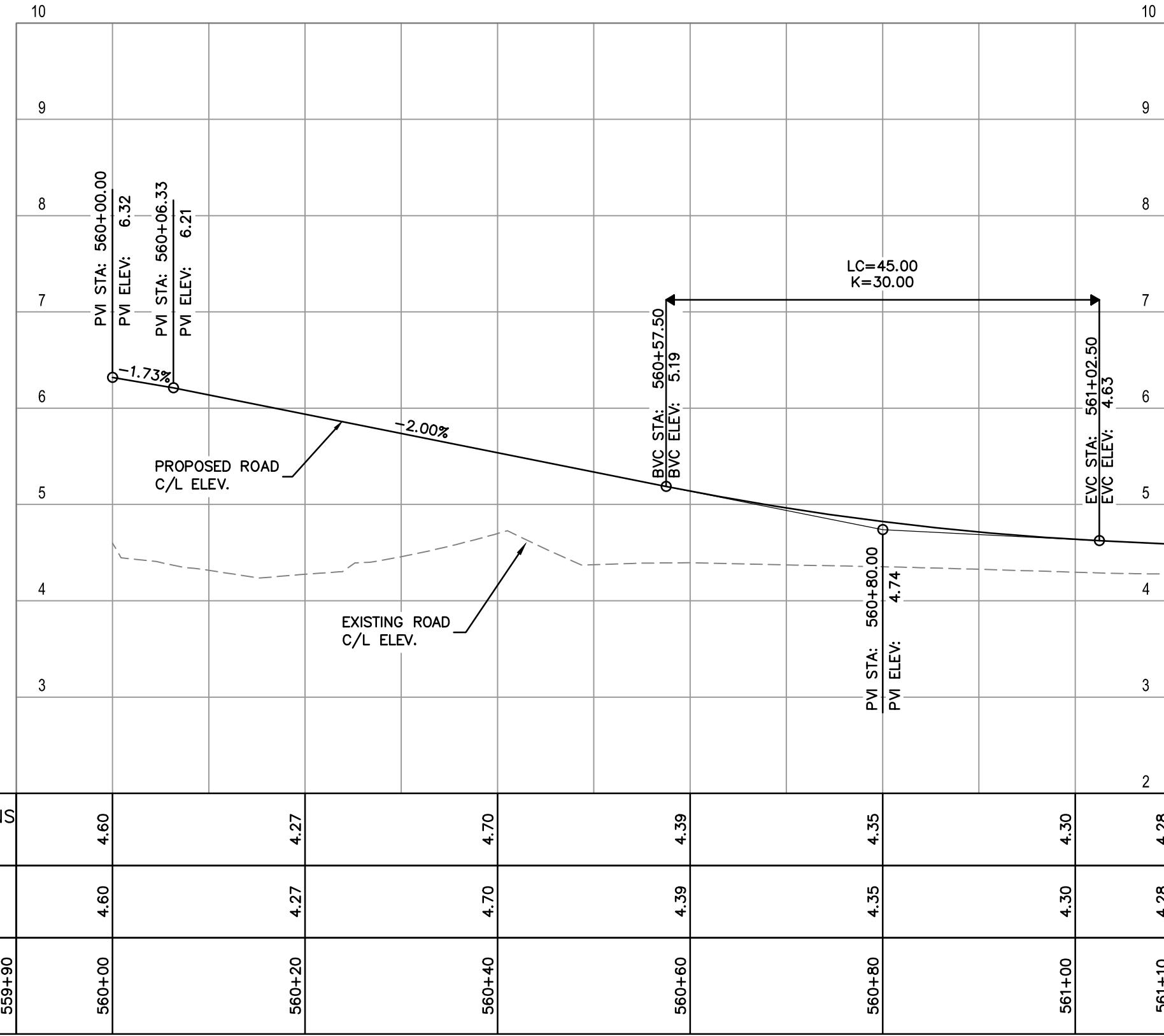
**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD**  
**ROAD PLAN AND PROFILE**

SIZE	DWG	356-135-RD-209	SHEET	9 of 12	REV	C
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TITLE BLOCK - LT-B.rwg



PLAN  
1:500



PROFILE  
HOR. 1:500  
VERT. 1:50

PROPOSED ELEVATIONS @ C/L OF ROAD	4.60	4.27	4.70	4.39	4.35	4.30	4.28
ORIGINAL GROUND ELEVATIONS @ C/L	4.60	4.27	4.70	4.39	4.35	4.30	4.28
ROAD C/L CHAINAGE	559+90	560+00	560+20	560+40	560+60	560+80	561+10

CURVE TABLE							
CURVE No.	RADIUS	DELTA	TANGENT	LENGTH	B.C. STA	E.C. STA	C.C. COORD.
C20	55.00	59°26'59"	31.40	57.07	56+011.19	56+068.26	N 5446972.910 E 498260.924

SPIRAL DATA						
SPIRAL No.	A	R	L	START DIRECTION	START COORD.	END COORD.
S20	59.363	55.000	40.579	S61° 58' 54.38"E	N 5446924.356 E 498235.087	N 5446916.466 E 498274.449

DATE: 2022/11/18 - 6:01pm  
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Ref. No.	REFERENCE

PRELIMINARY  
NOT FOR  
CONSTRUCTION

No.	Date	REVISION	Dr'n	Ch'd
A	2022-11-18	INDICATIVE DESIGN SUBMISSION	EY	LZ

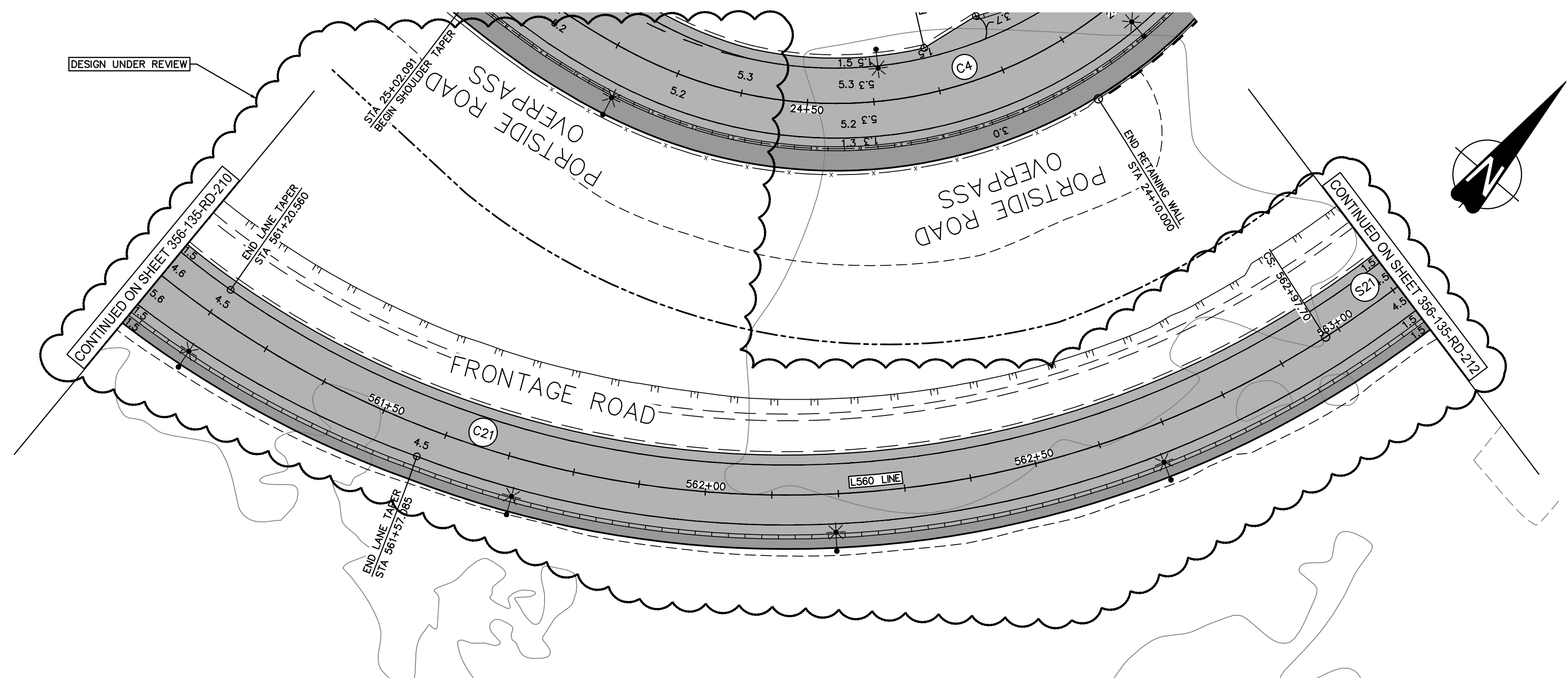
THIS DRAWING HAS NOT BEEN APPROVED  
AND MAY CONTAIN ERRORS AND OMISSIONS

DESIGN BY: V. MAK  
DRAWN BY: E. YANG  
APPROVED: L. ZAREI  
DATE: 2022-06-30  
SCALE: 1:500  
VFPA SITE: 356

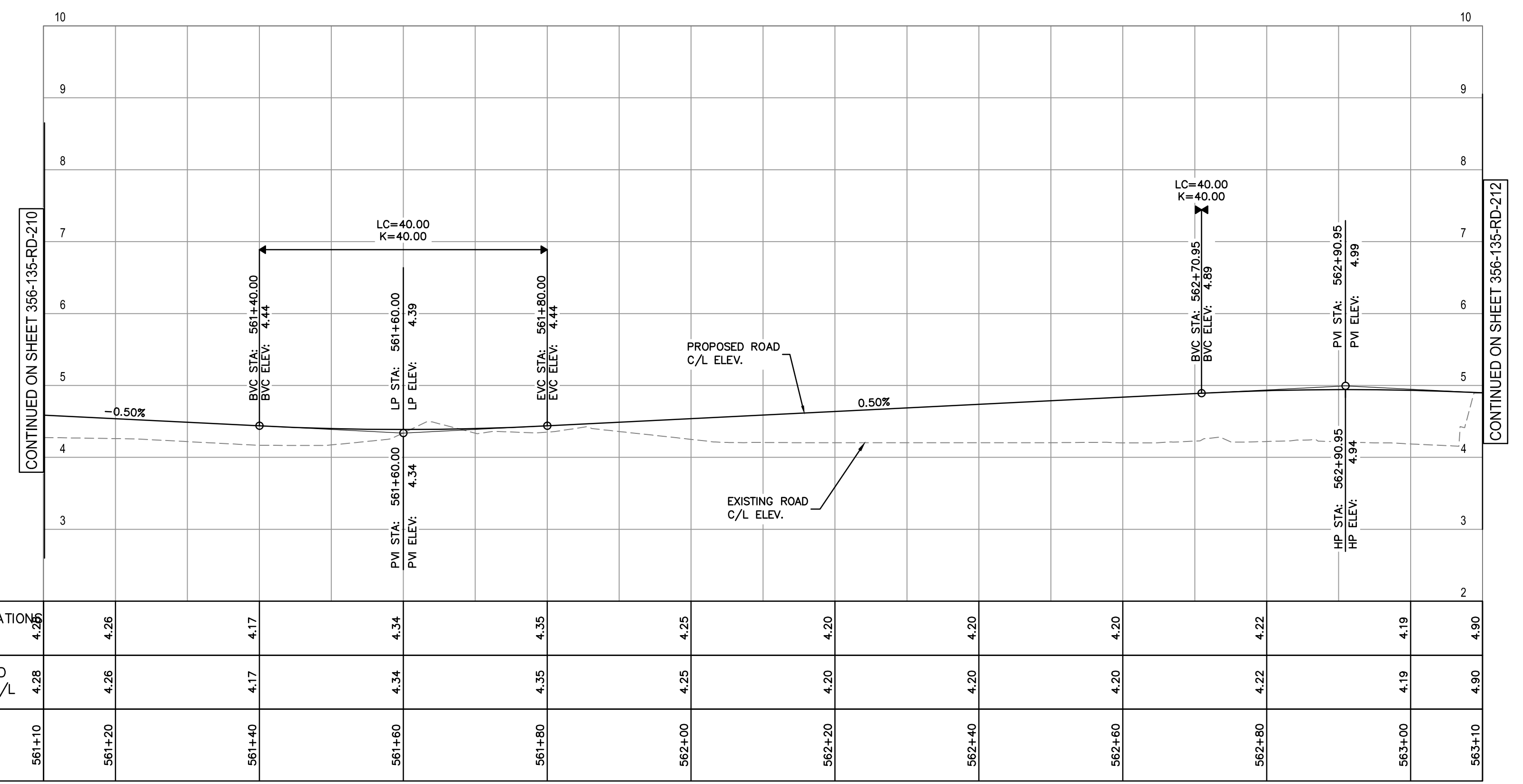
GREATER VANCOUVER GATEWAY 2030  
PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
PORTSIDE ROAD  
ROAD PLAN AND PROFILE

SIZE	DWG	356-135-RD-210	SHEET	REV
D			10 of 12	A





PLAN  
1:500



PROFILE  
HOR. 1:500  
VERT. 1:50

PROPOSED ELEVATIONS ● C/L OF ROAD	4.26	4.26	4.17	4.34	4.35	4.25	4.20	4.20	4.20	4.22	4.19	4.90
ORIGINAL GROUND ELEVATIONS ● C/L	4.28	4.26	4.17	4.34	4.35	4.25	4.20	4.20	4.20	4.22	4.19	4.90
ROAD C/L CHAINAGE	561+10	561+20	561+40	561+60	561+80	562+00	562+20	562+40	562+60	562+80	563+00	563+10

CURVE TABLE							
CURVE No.	RADIUS	DELTA	TANGENT	LENGTH	B.C. STA	E.C. STA	C.C. COORD.
C21	150.00	72°08'23"	109.26	188.86	56+108.84	56+297.70	N 5447066.449 E 498272.176

SPIRAL DATA						
SPIRAL No.	A	R	L	START DIRECTION	START COORD.	END COORD.
S21	86.603	150.000	50.000	N16° 59' 30.37"E	N 5447022.614 E 498415.628	N 5447071.696 E 498424.835

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 DATE: 2022/11/8 - 6:16pm  
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Ref. No.	REFERENCE
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**LEDOR GROUP**  
 Suite 2300  
 13450 102nd Avenue  
 Surrey BC  
 Canada V3T 5X3  
 T 604 596 0391

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No.	Date	REVISION	Dr'n	Ch'd
A	2022-11-11	INDICATIVE DESIGN SUBMISSION	EY	LZ

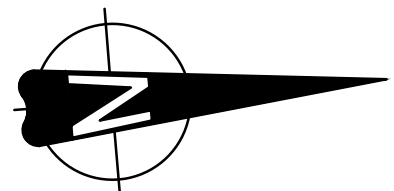
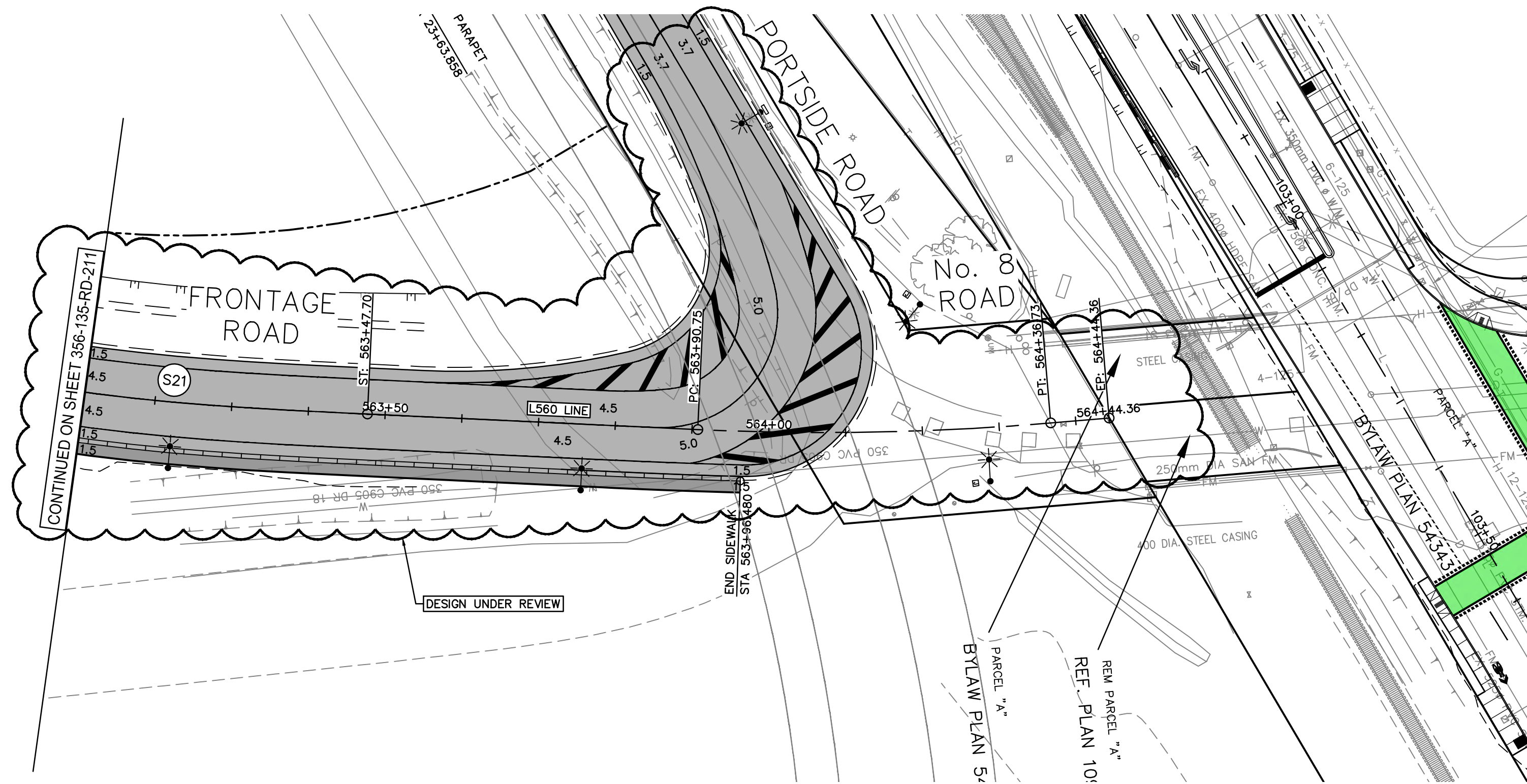
**Vancouver Fraser  
 Port Authority**  
 ENGINEERING DEPARTMENT

DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

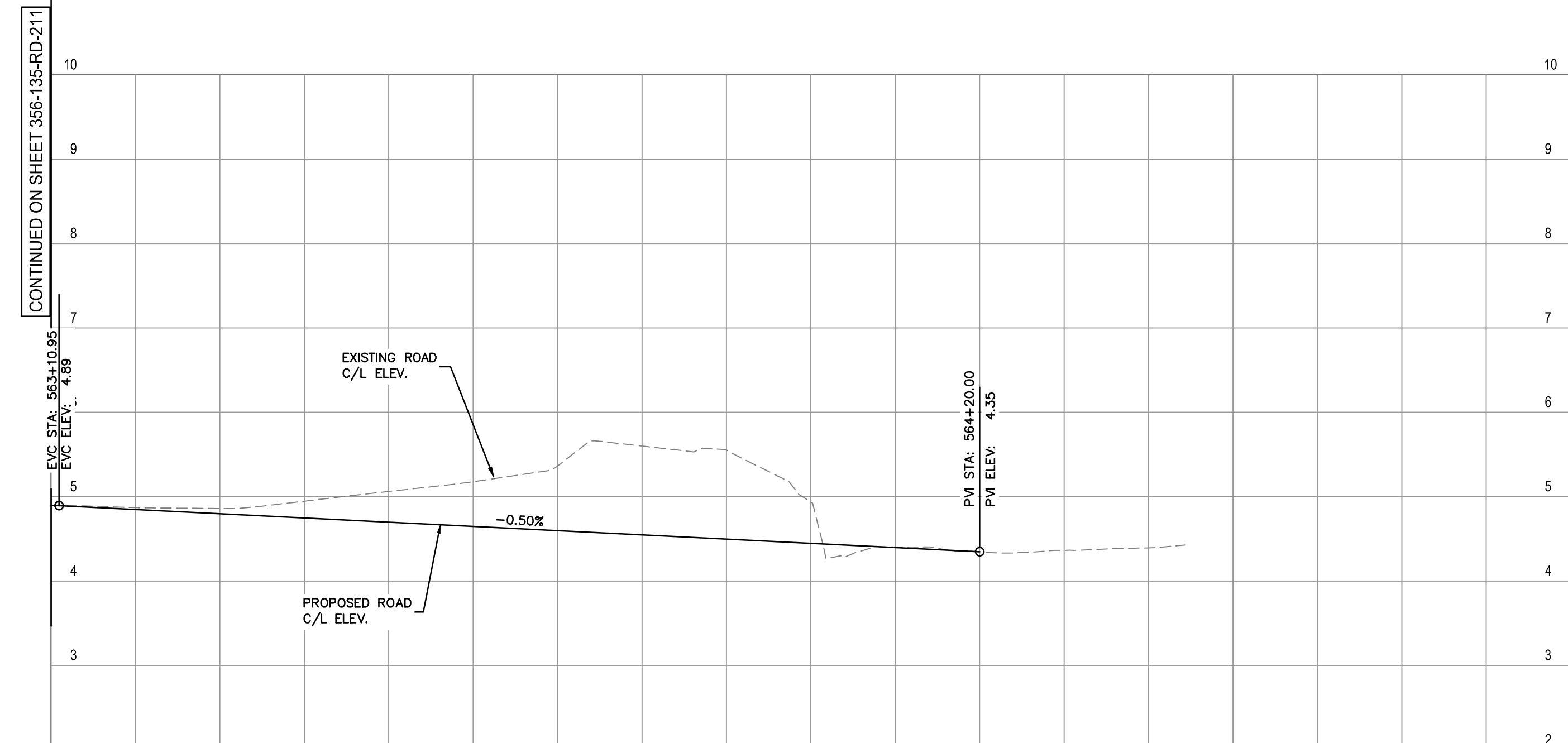
**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD**  
**ROAD PLAN AND PROFILE**

SIZE	DWG	356-135-RD-211	SHEET	REV
D			11 of 12	A

TITLE BLOCK - LT-B.rwg



**PLAN**  
1:500



PROPOSED ELEVATIONS @ C/L OF ROAD	563+10	563+20	563+40	563+60	563+80	564+00	564+20	564+40	564+60	564+80	564+90
ORIGINAL GROUND ELEVATIONS @ C/L	4.90	4.87	4.95	5.18	5.60	4.94	4.35	4.39			
ROAD C/L CHAINAGE	563+10	563+20	563+40	563+60	563+80	564+00	564+20	564+40	564+60	564+80	564+90

**PROFILE**  
HOR. 1:500  
VERT. 1:50

CURVE No.	RADIUS	DELTA	TANGENT	LENGTH	B.C. STA	E.C. STA	C.C. COORD.
S21	86.603	150.000	50.000	N16° 59' 30.37"E	N 5447022.614 E 498415.628	N 5447071.696 E 498424.835	

SPIRAL No.	A	R	L	START DIRECTION	START COORD.	END COORD.
S21	86.603	150.000	50.000	N16° 59' 30.37"E	N 5447022.614 E 498415.628	N 5447071.696 E 498424.835

DATE: 2022/11/8 - 6:16pm  
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No.	Date	REVISION	Dr'n	Ch'd
A	2022-11-11	INDICATIVE DESIGN SUBMISSION	EY	LZ

**Vancouver Fraser  
Port Authority**

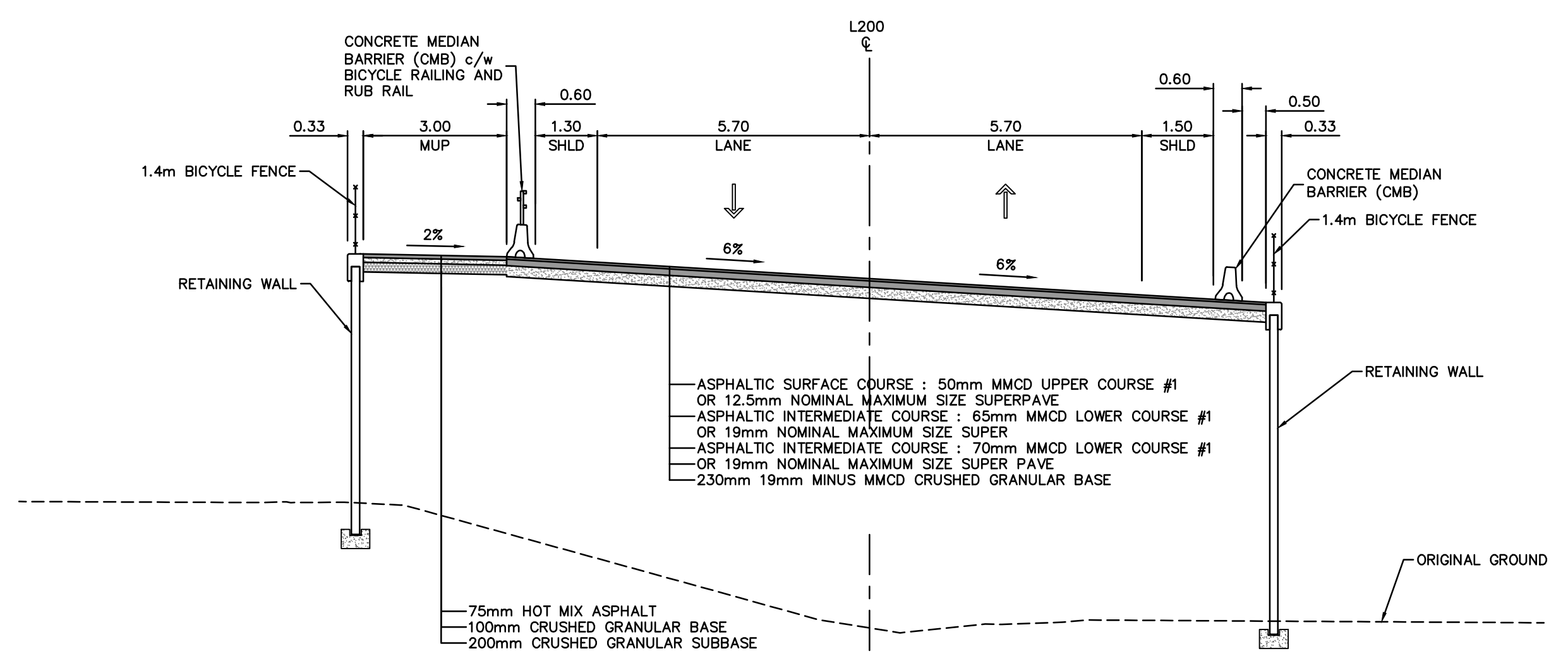
ENGINEERING DEPARTMENT

DESIGN BY	V. MAK
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

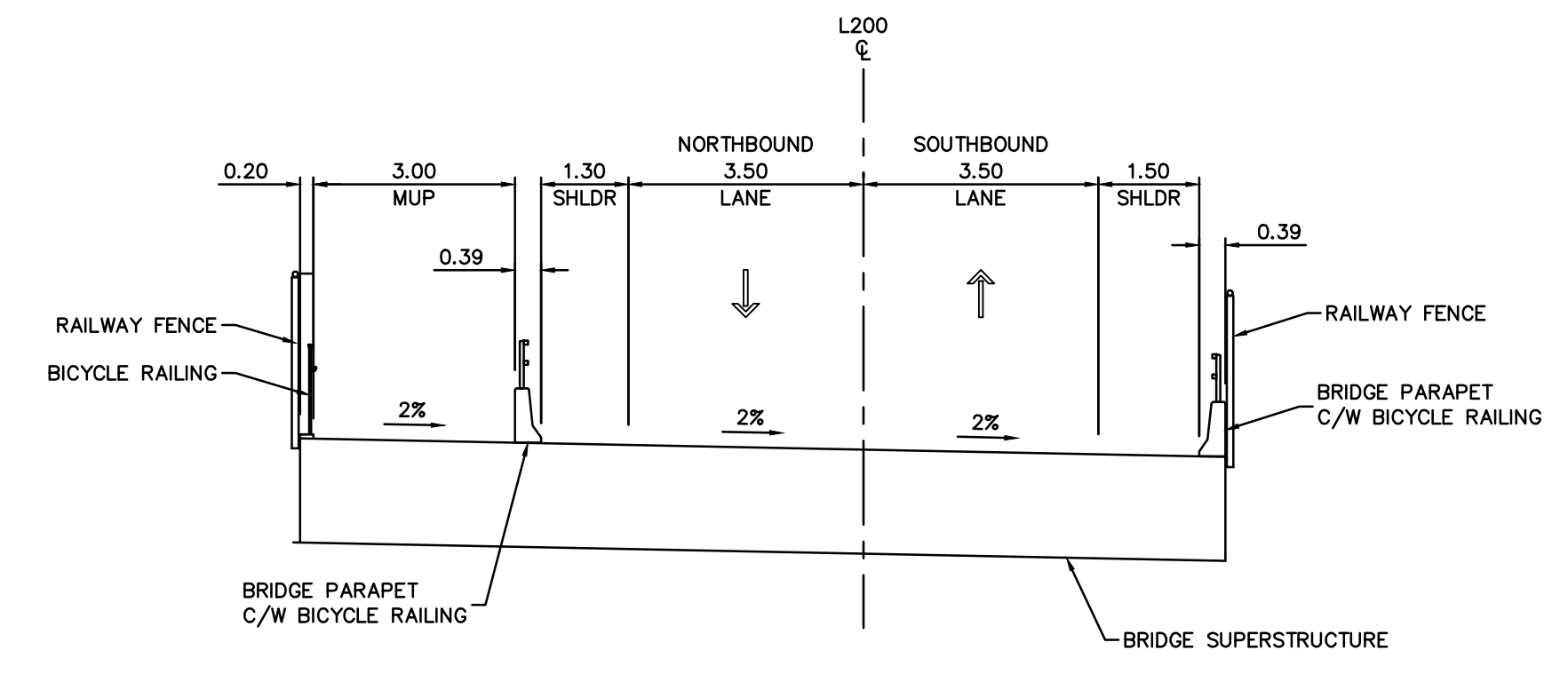
**GREATER VANCOUVER GATEWAY 2030  
PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
PORTSIDE ROAD  
ROAD PLAN AND PROFILE**

SIZE	DWG	356-135-RD-212	SHEET	REV
D			12 of 12	A

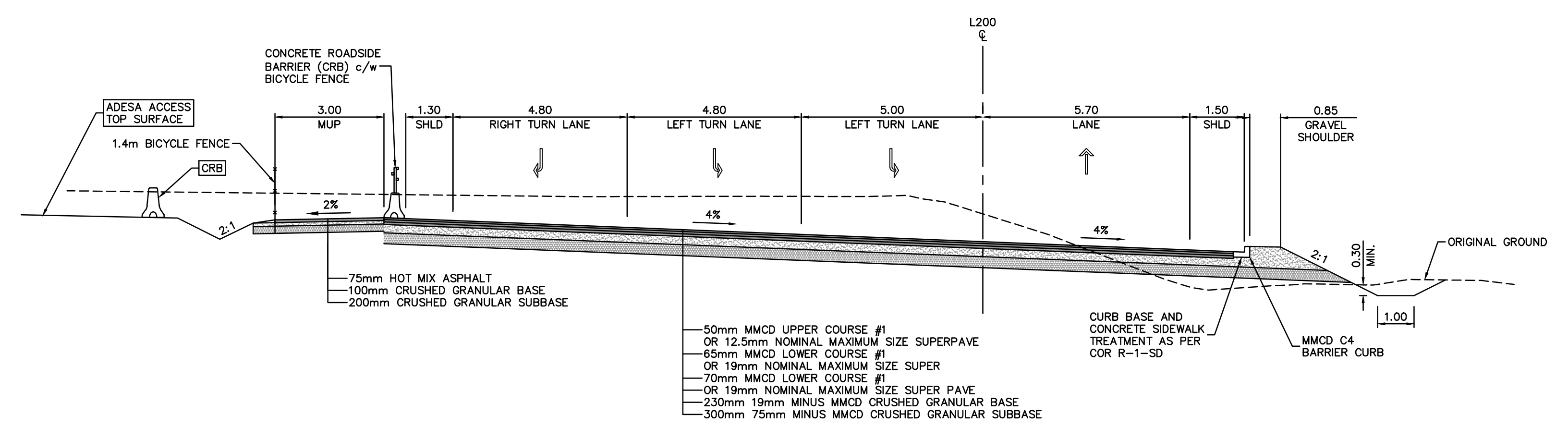
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**L200 - PORTSIDE ROAD OVERPASS  
NORTH OVERPASS APPROACH**  
STA. 22+10



**L200 - OVERPASS**  
STA. 23+00



**L200 - PORTSIDE ROAD OVERPASS  
NORTH INTERSECTION TURNING LANES**  
STA. 20+70

NOTE:  
1. FOR PAVEMENT DETAILS REFER TO PBRI PAVEMENT DESIGN REPORT.

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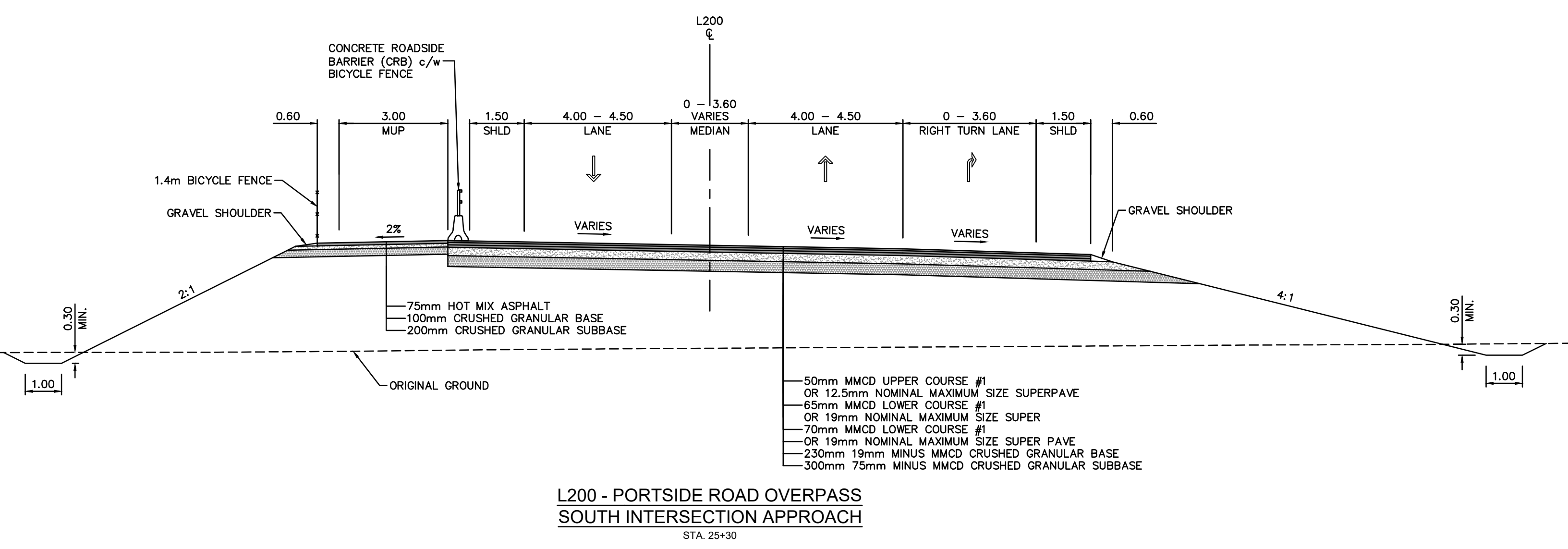
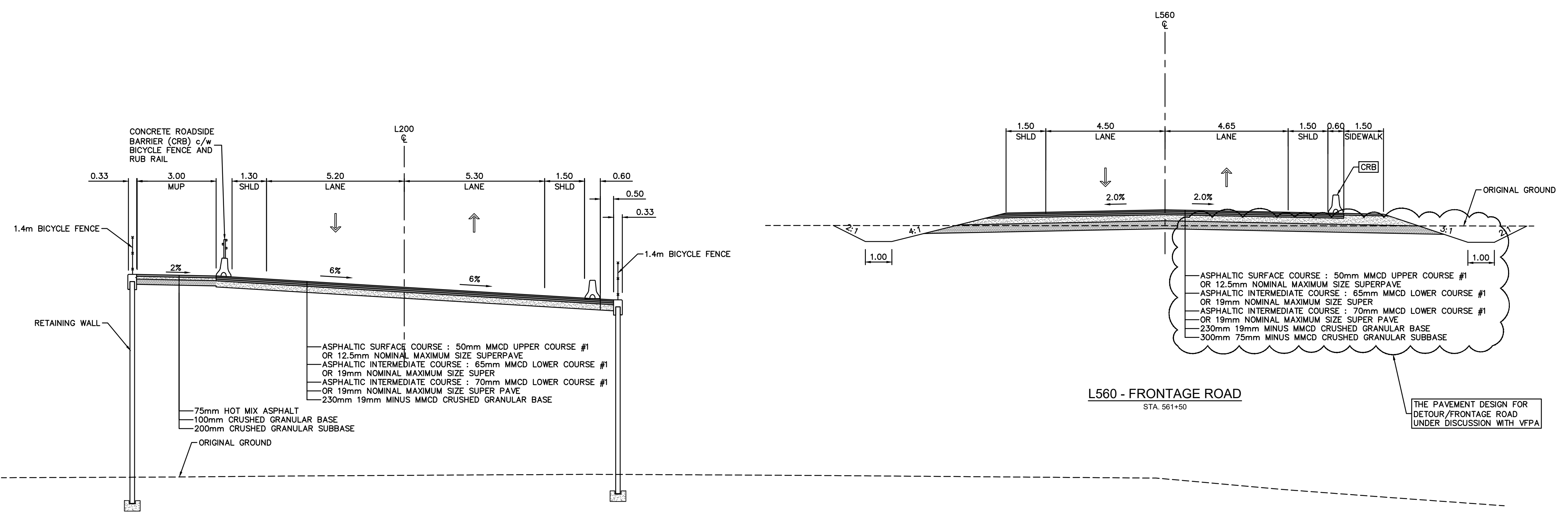
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No.	Date	REVISION	Dr'n	Ch'd
C	2022-11-11	INDICATIVE DESIGN SUBMISSION	ST	LZ
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	JA



DESIGN BY	T. BOOTH
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:100
VFPA SITE	356

<b>GREATER VANCOUVER GATEWAY 2030 PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT PORTSIDE ROAD OVERPASS TYPICAL SECTIONS &amp; DETAILS</b>		SIZE	DWG	<b>356-135-RD-301</b>	SHEET	REV
		D			1 of 3	C



NOTE:  
1. FOR PAVEMENT DETAILS REFER TO PBRI PAVEMENT DESIGN REPORT.

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No.	Date	REVISION	Dr'n	Ch'd
C	2022-11-11	INDICATIVE DESIGN SUBMISSION	ST	LZ
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	JA

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Port Authority**

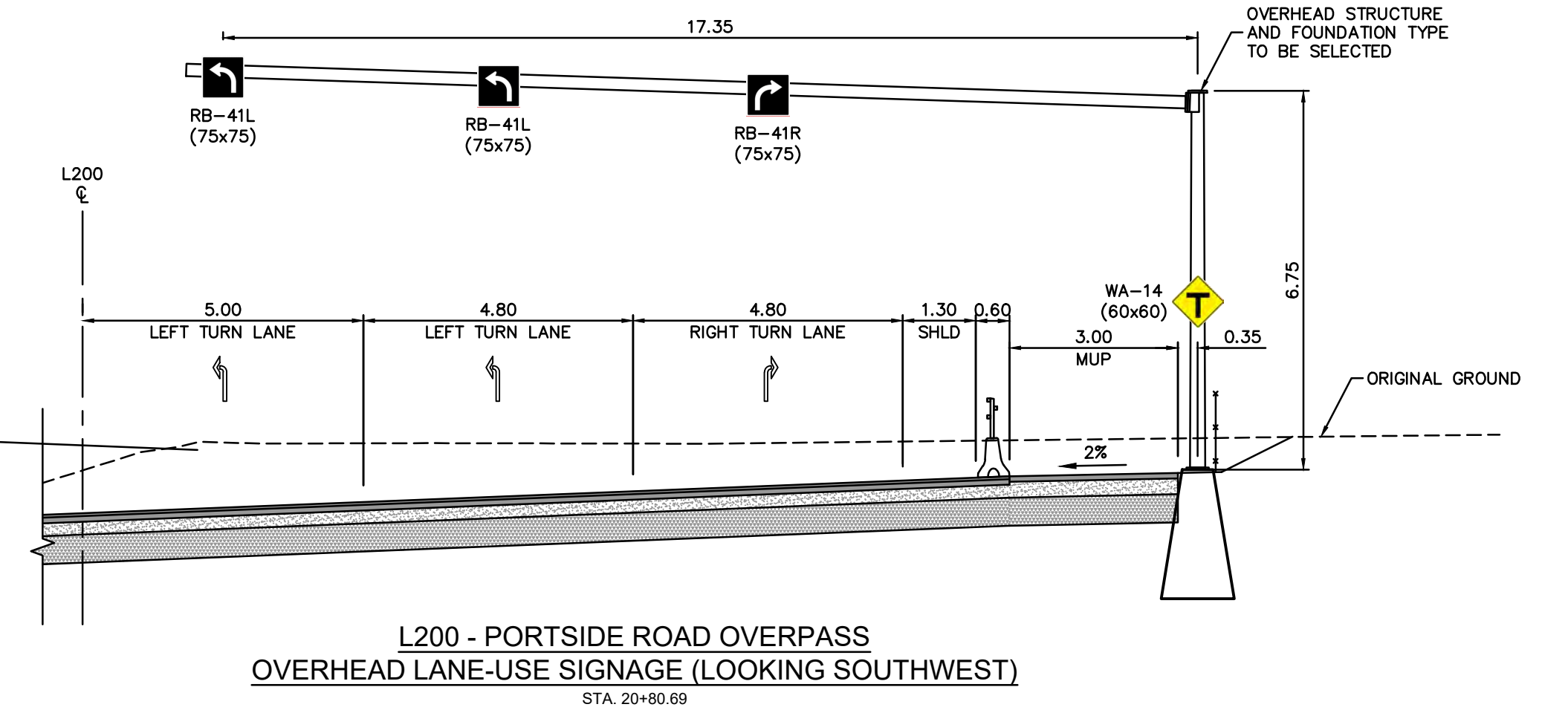
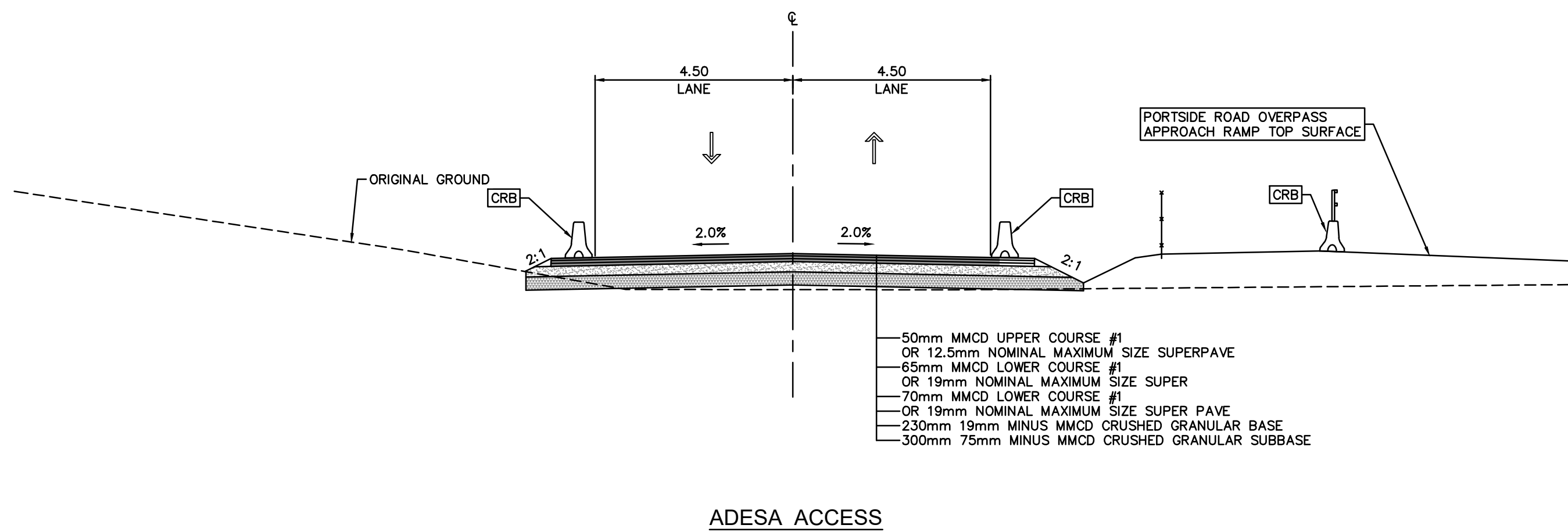
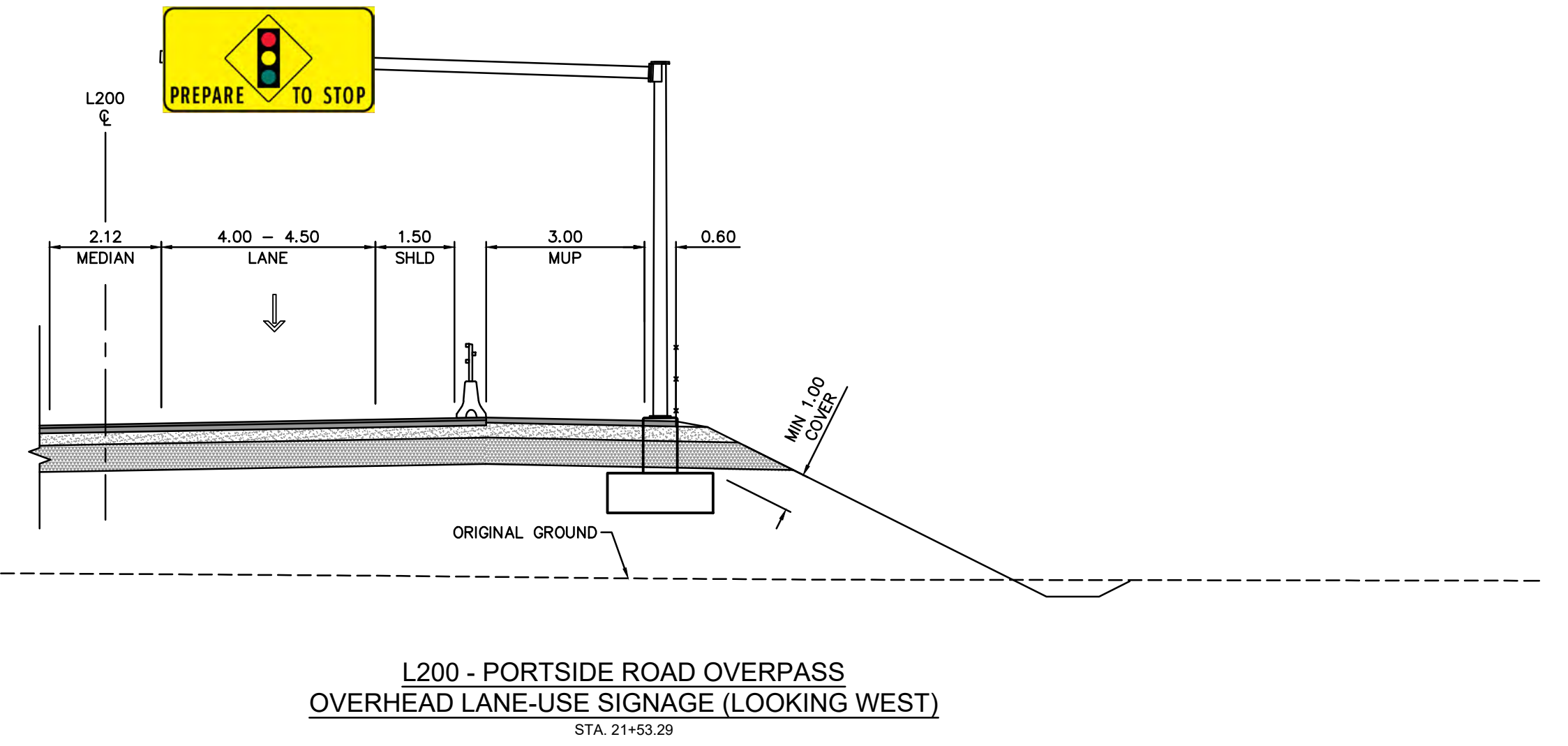
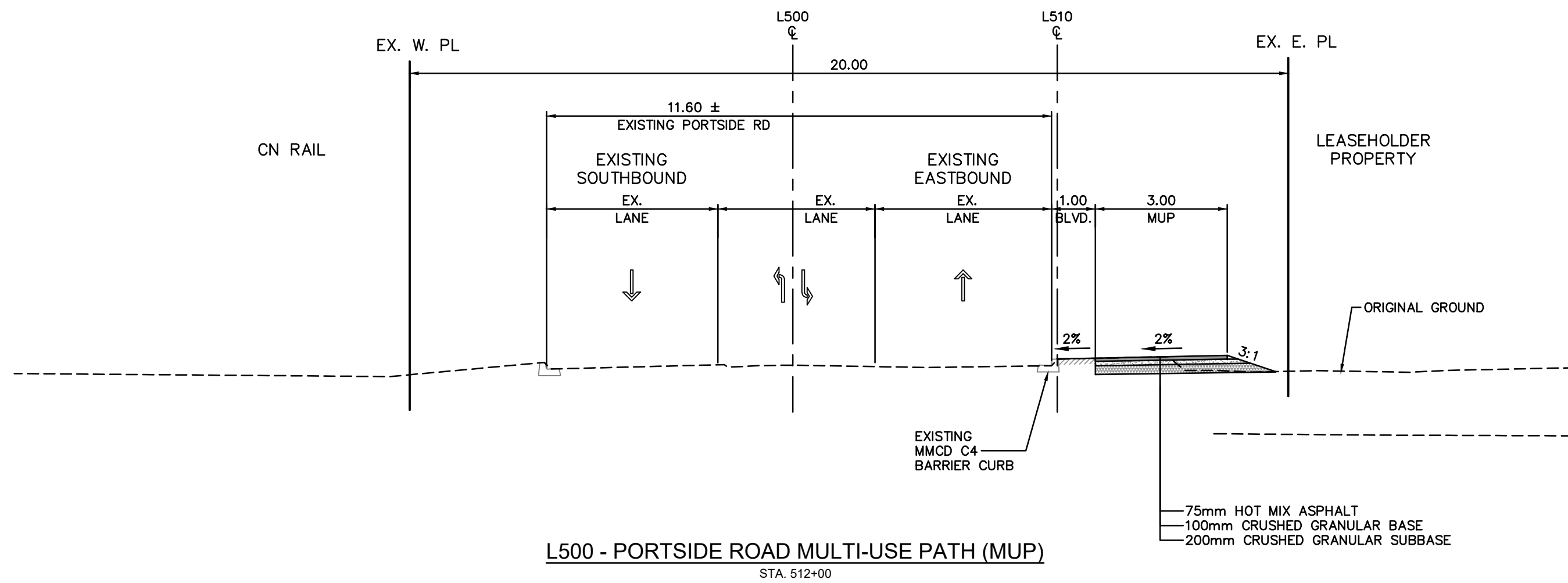
ENGINEERING DEPARTMENT

DESIGN BY	T. BOOTH
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:100
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030  
PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
PORTSIDE ROAD OVERPASS  
TYPICAL SECTIONS & DETAILS**

SIZE DWG: **356-135-RD-302**

SHEET **2 of 3** REV **C**



NOTE:  
1. FOR PAVEMENT DETAILS REFER TO PBRI PAVEMENT DESIGN REPORT.

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No.	Date	REVISION	Dr'n	Ch'd
B	2022-11-11	INDICATIVE DESIGN SUBMISSION	ST	LZ
A	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ

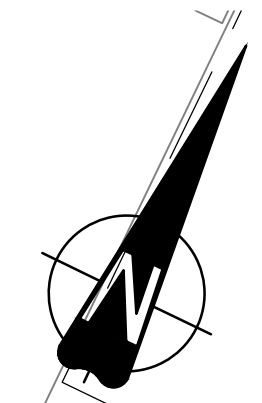
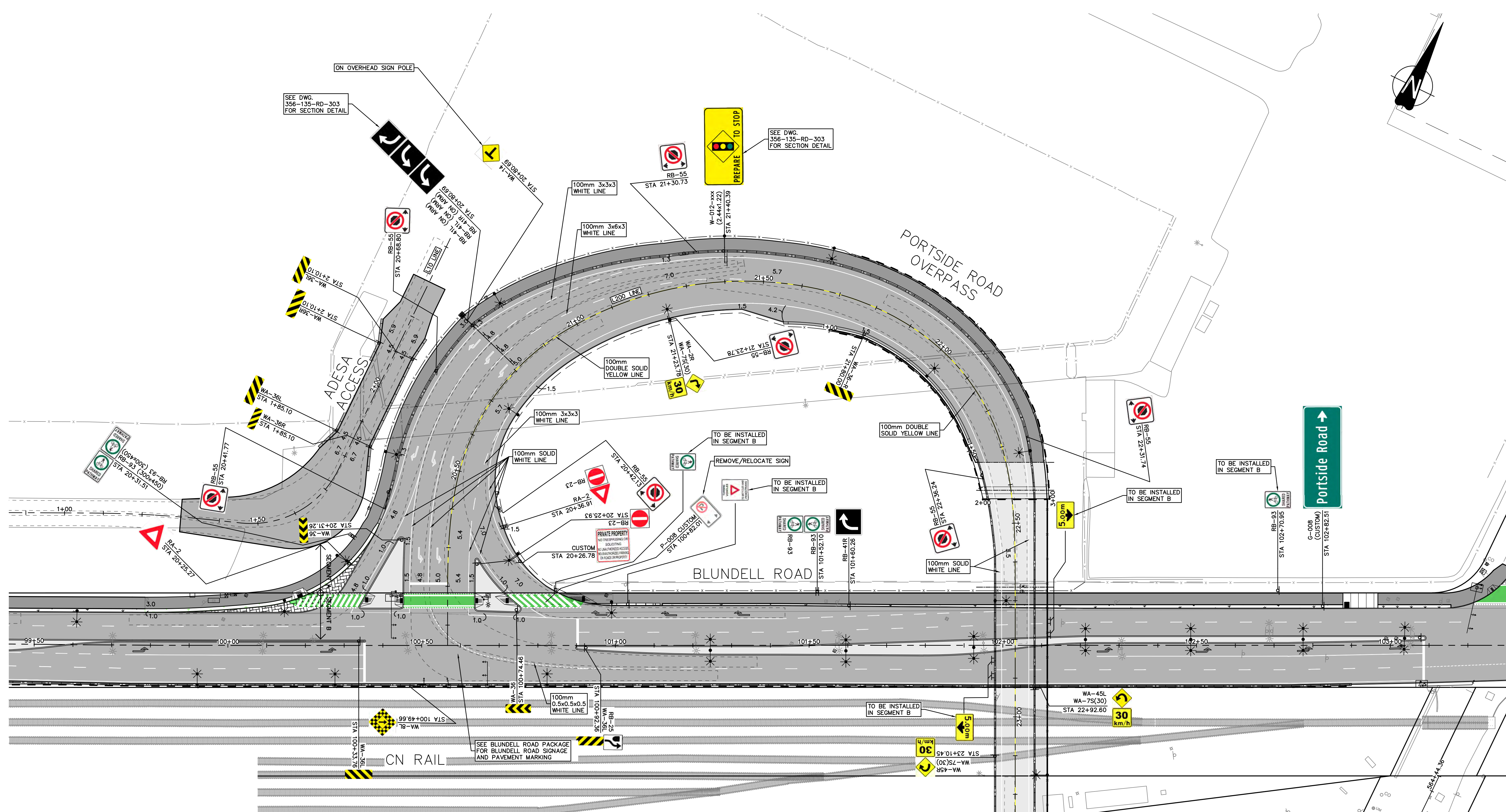
ENGINEERING DEPARTMENT

DESIGN BY	T. BOOTH
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:100
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030  
PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
PORTSIDE ROAD OVERPASS  
TYPICAL SECTIONS & DETAILS**

SIZE	DWG	356-135-RD-303	SHEET	3 of 3	REV	B
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CONTINUED ON SHEET 356-135-RD-602

**LEGEND - ROADWORKS**

	VEHICLE SWEEP PATH: WB-20 UNLESS OTHERWISE NOTED
	OTHERWISE NOTED

ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC TO THE CITY OF RICHMOND STANDARD

Ref. No.	REFERENCE

**LEDOR GROUP**

**McElhanney**

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No.	Date	REVISION	Dr'n	Ch'd
B	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
A	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	EY	LZ

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**PORT of vancouver**

**Vancouver Fraser Port Authority**

ENGINEERING DEPARTMENT

DESIGN BY	T. BOOTH
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-09-29
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030**

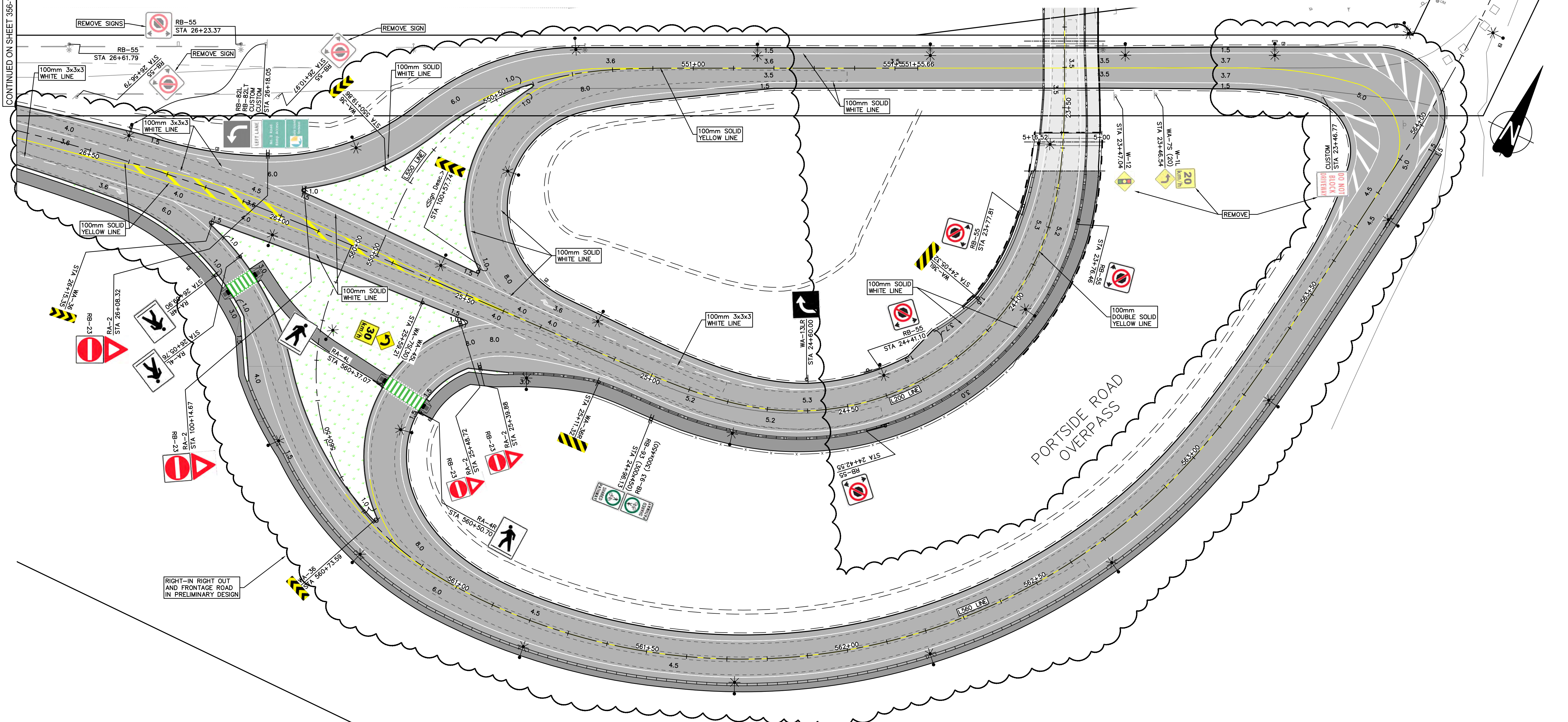
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**

**PORTSIDE ROAD**

**SIGNAGE AND PAVEMENT MARKINGS**

SIZE	DWG	356-135-RD-601	SHEET	1 of 5	REV	B
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PORTSIDE ROAD



DATE: 2022/11/8 - 7:16pm  
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 TITLE BLOCK: LT-1B.rvt

LEGEND - ROADWORKS

--- VEHICLE SWEEP PATH: WB-20 UNLESS OTHERWISE NOTED

Ref. No.	REFERENCE



**McElhanney**

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No.	Date	REVISION	Dr'n	Ch'd
B	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
A	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	EY	LZ



**Vancouver Fraser Port Authority**

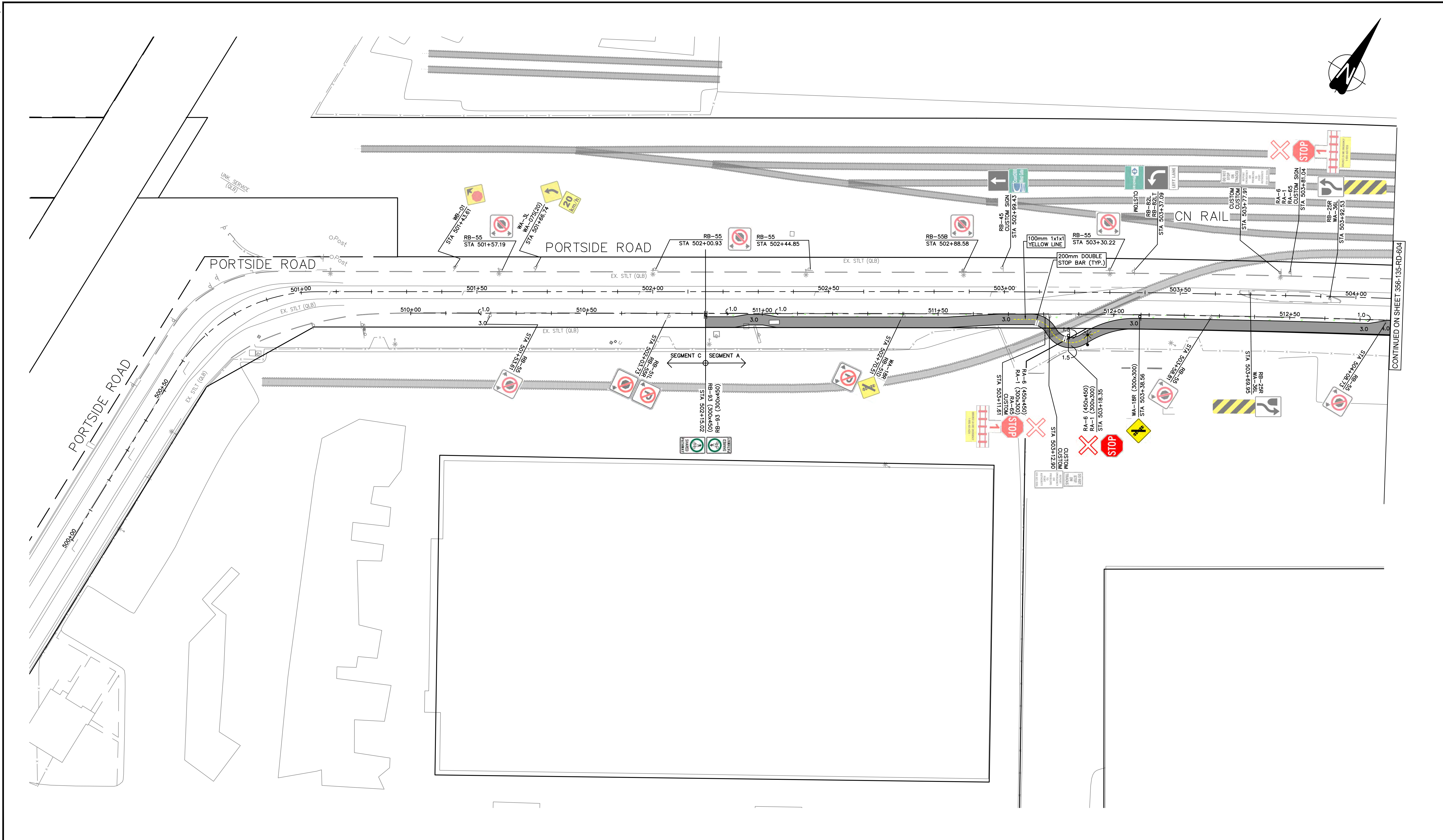
ENGINEERING DEPARTMENT

DESIGN BY	T. BOOTH
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-09-29
SCALE	1:500
VPFA SITE	356

**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD**  
**SIGNAGE AND PAVEMENT MARKINGS**

SIZE	DWG	356-135-RD-602	SHEET	2 of 5	REV	B
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CONTINUED ON SHEET 356-135-RD-604

Ref. No.	REFERENCE

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**McElhanney**

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No.	Date	REVISION	Dr'n	Ch'd
B	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
A	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	EY	LZ

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Vancouver Fraser  
 Port Authority

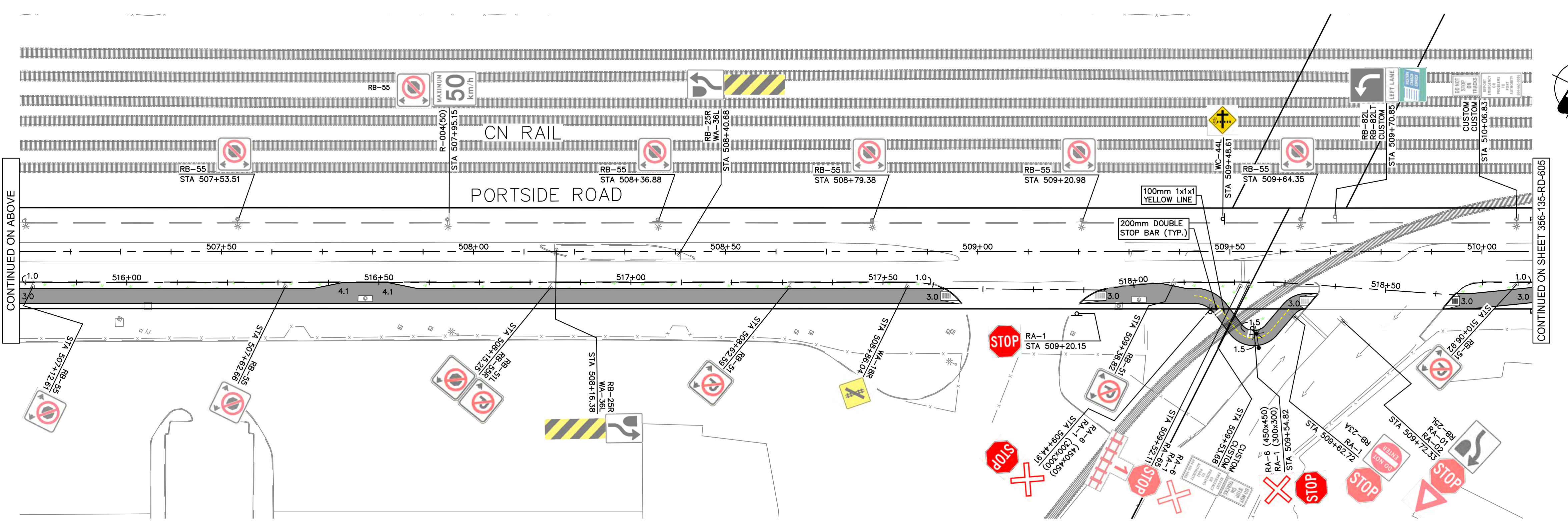
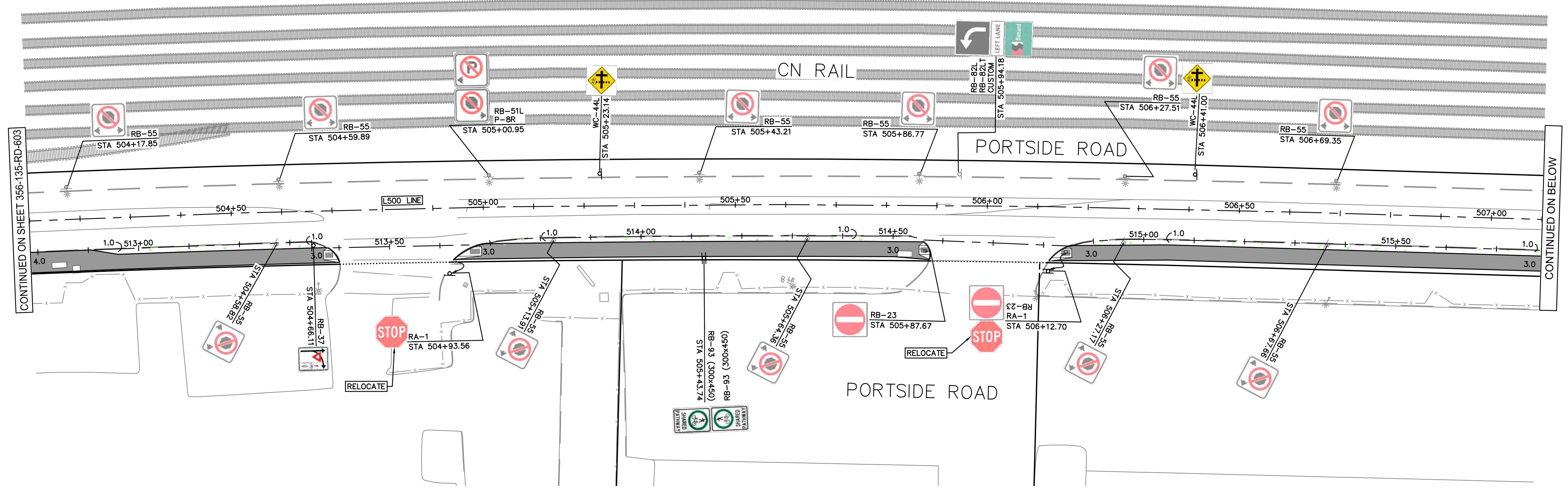
ENGINEERING DEPARTMENT

DESIGN BY	T. BOOTH
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-09-29
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030  
 PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
 PORTSIDE ROAD  
 SIGNAGE AND PAVEMENT MARKINGS**

SIZE	DWG	356-135-RD-603	SHEET	3 of 5	REV	B
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Ref. No.	REFERENCE

LEDCOR GROUP  
 McElhanney

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 Surrey BC  
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No.	Date	REVISION	Dr'n	Ch'd
B	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
A	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	EY	LZ

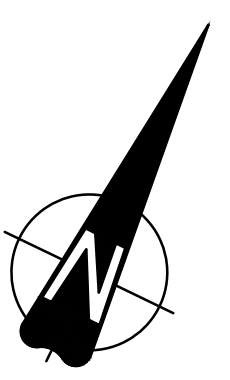
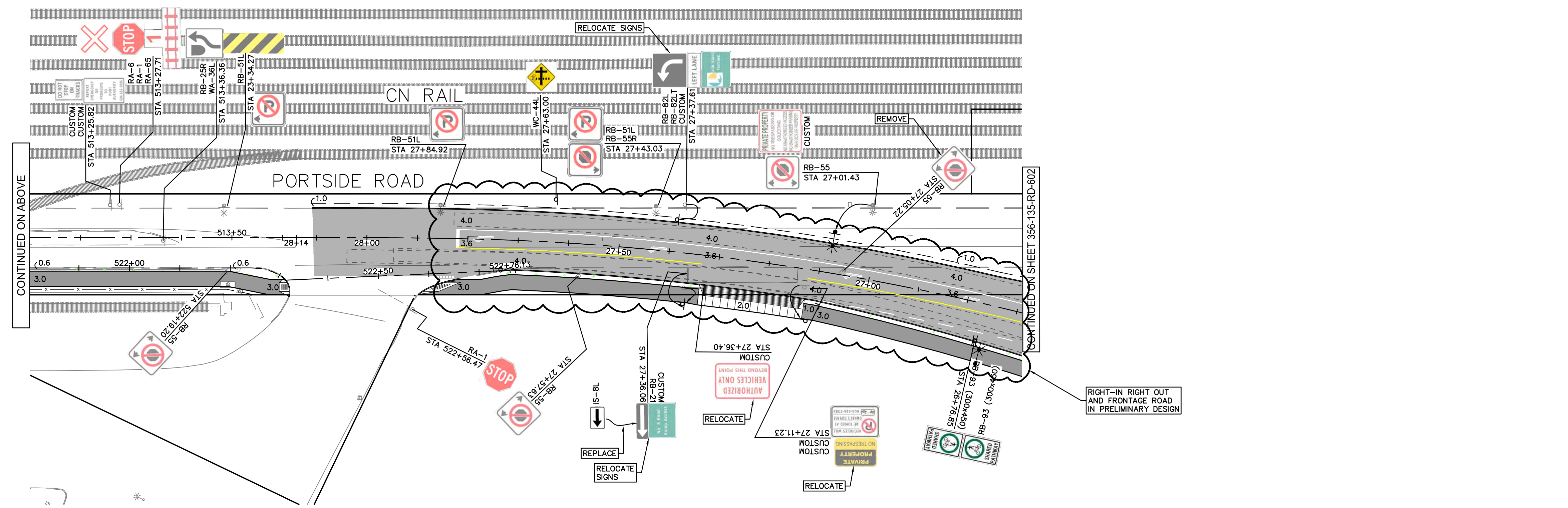
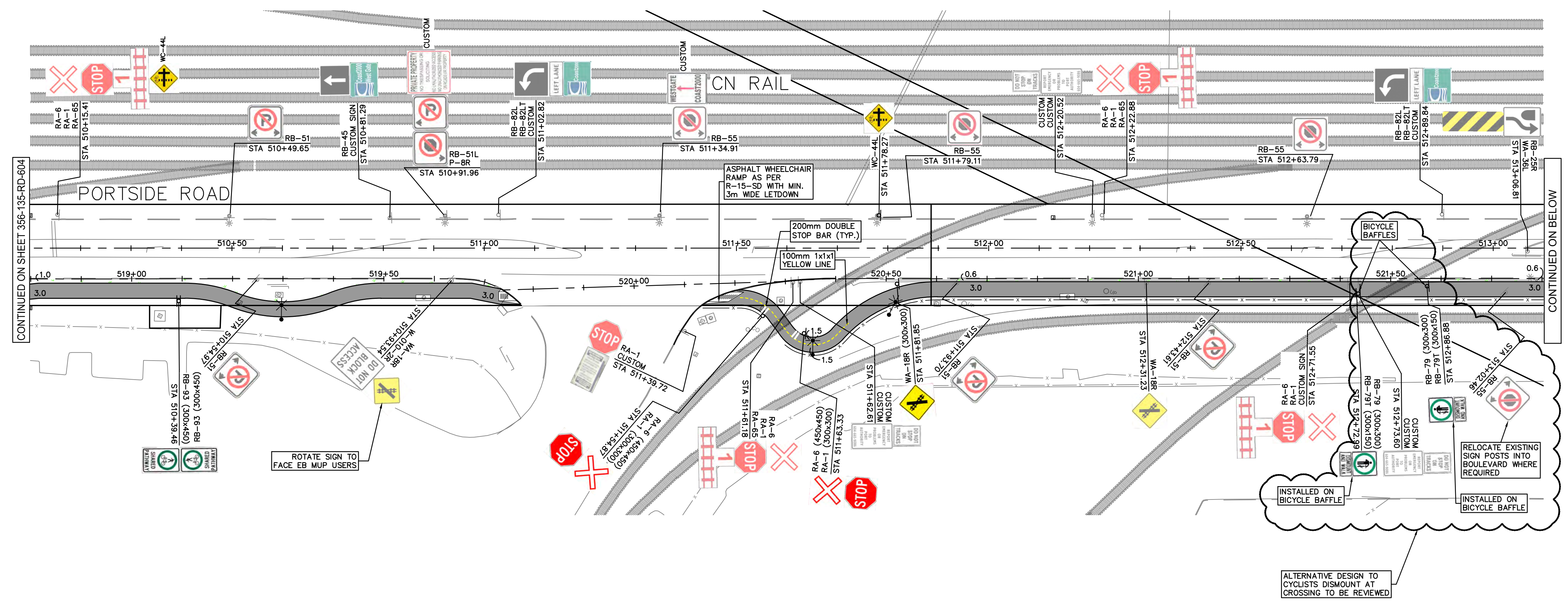
PORT of vancouver  
 Vancouver Fraser Port Authority  
 ENGINEERING DEPARTMENT

DESIGN BY	T. BOOTH
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-09-29
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030  
 PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
 PORTSIDE ROAD  
 SIGNAGE AND PAVEMENT MARKINGS**

SIZE	DWG	356-135-RD-604	SHEET	4 of 5	REV	B
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Ref. No.	REFERENCE

McElhanney  
 Suite 2300  
 13450 102nd Avenue  
 Surrey BC  
 Canada V3T 5X3  
 T 604 596 0391

**PRELIMINARY NOT FOR CONSTRUCTION**

No.	Date	REVISION	Dr'n	Ch'd
B	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	LZ
A	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	EY	LZ

THIS DRAWING HAS NOT BEEN APPROVED AND MAY CONTAIN ERRORS AND OMISSIONS

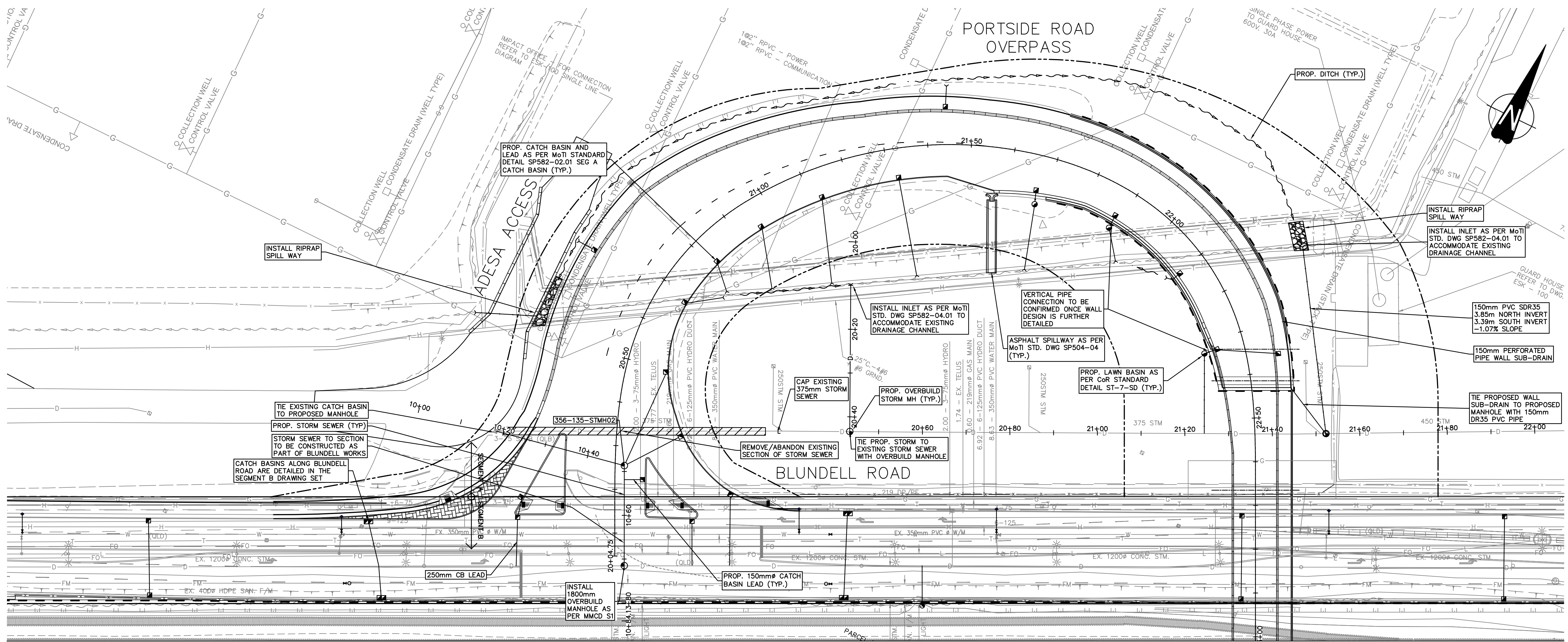
**PORT of Vancouver**  
 Vancouver Fraser Port Authority  
 ENGINEERING DEPARTMENT

DESIGN BY	T. BOOTH
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APPROVED	L. ZAREI
DATE	2022-09-29
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VPFA SITE	356

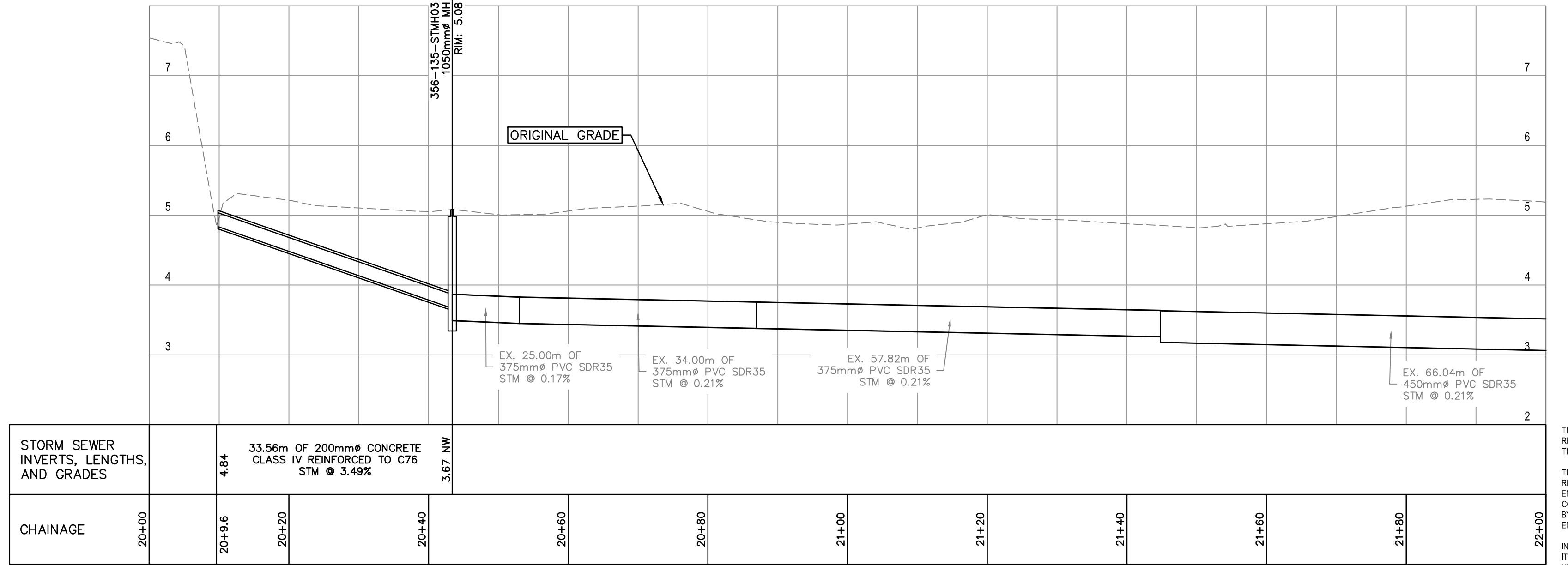
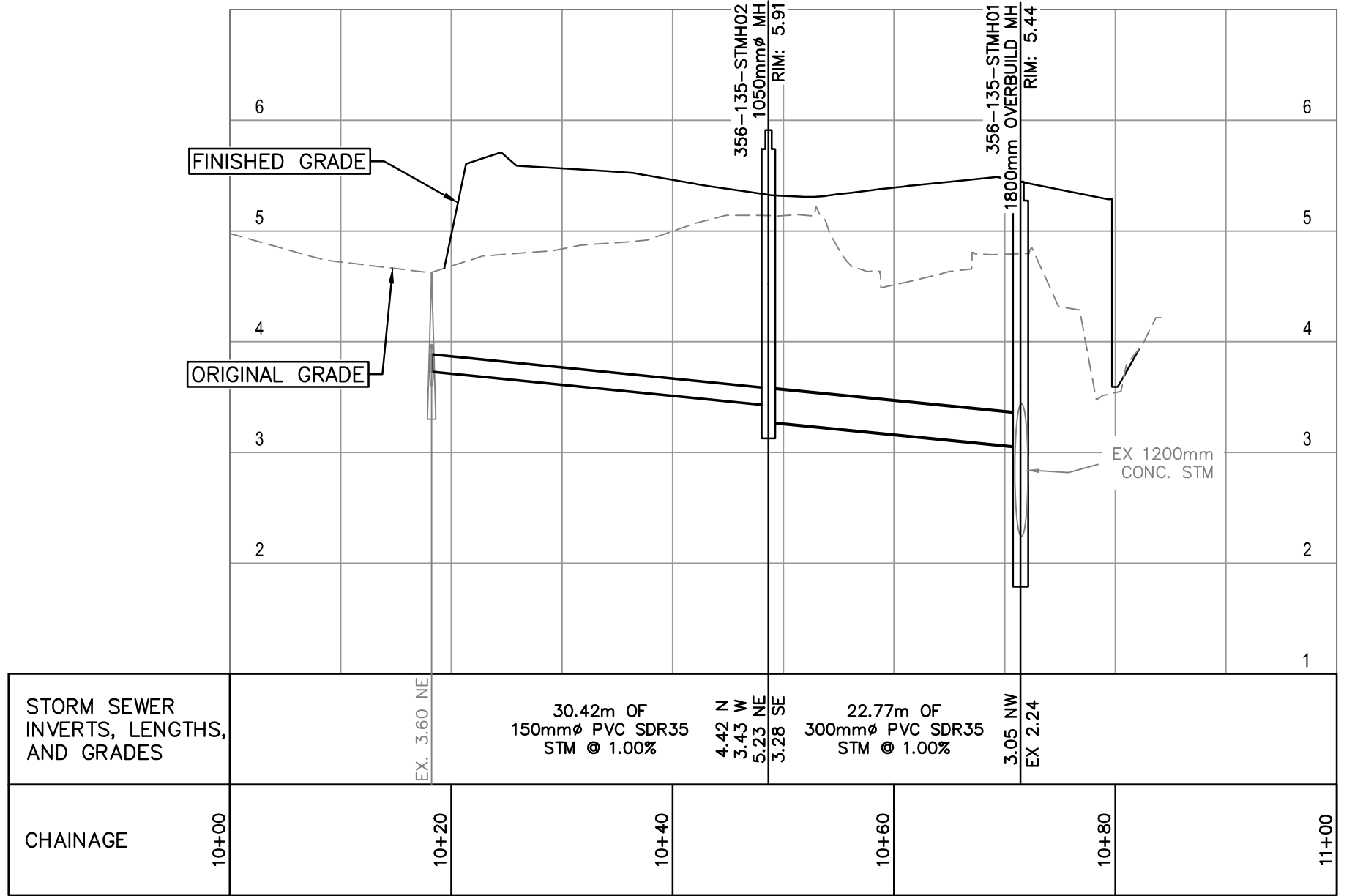
**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD**  
**SIGNAGE AND PAVEMENT MARKINGS**

SIZE	DWG	356-135-RD-605	SHEET	5 of 5	REV	B
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DATE: 2022/11/18 - 6:51pm  
 PATH: X:\211111\11.00 - DB Projects\2111-40118-00 Lector - Portside-Blundell Rd Imp\10.0 DRAWINGS\10.2 Civil\10.201A\10.3.1 Sheets\10.201A-MECS-DWG-DR-700-STW.dwg  
 TITLE BLOCK CL-TR-049



CONTINUED ON SHEET 356-135-DR-702



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C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	NS
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	MC	SM

**Vancouver Fraser Port Authority**  
 ENGINEERING DEPARTMENT

DESIGN BY	M. THIESSEN
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

GREATER VANCOUVER GATEWAY 2030 PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT PORTSIDE ROAD DRAINAGE AND STORM SEWERS		SIZE	DWG	356-135-DR-701	SHEET	REV
D					1 of 5	C

TITLE BLOCK CL-TB.rwg

CONTINUED ON SHEET 356-135-DR-701

PORTSIDE ROAD

PLAN BCP42099 SRW

PLAN BCP2214 EASEMENT

EX. 450mm $\phi$  CONC. CL III STM.  
(TO BE REMOVED/ABANDONED)

Lot 5

Plan NWP74529  
007-793-626

PROP. 150mm $\phi$  CATCH  
BASIN LEAD (TYP.)

600mm ULTRARIB  
CULVERT

PROP. CULVERT  
c/w HEADWALLS

ASPHALT SPILLWAY AS PER  
MoTI STD. DWG SP504-04

PROP. DITCH (TYP.)

TIE PROPOSED WALL SUB-DRAIN TO PROPOSED  
DITCH WITH 150mm DR35 PVC PIPE

150mm PERFORATED  
PIPE WALL SUB-DRAIN

600mm  
ULTRA-RIB PVC  
CULVERT

PROP. CATCH BASIN AS  
PER CoR STANDARD  
DETAIL ST-5-SD (TYP.)

PORTSIDE ROAD  
OVERPASS

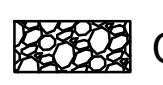
DESIGN UNDER REVIEW

DESIGN UNDER REVIEW

600mm  
ULTRA-RIB PVC  
CULVERT

600mm  
ULTRA-RIB PVC  
CULVERT

**NOTE:**

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PATH: X:\2111\11.00 - DB Projects\2111-40118-00 Ledor - Portside-Blunell Rd Imp\10.0 DRAWINGS\10.2 Civil\10.2A\10.3.1 Sheets\10.2A-MECS-DWG-DR-700-STM.dwg

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A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ



**PORT of  
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Vancouver Fraser  
Port Authority

ENGINEERING DEPARTMENT

DESIGN BY	M. THIESSEN
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

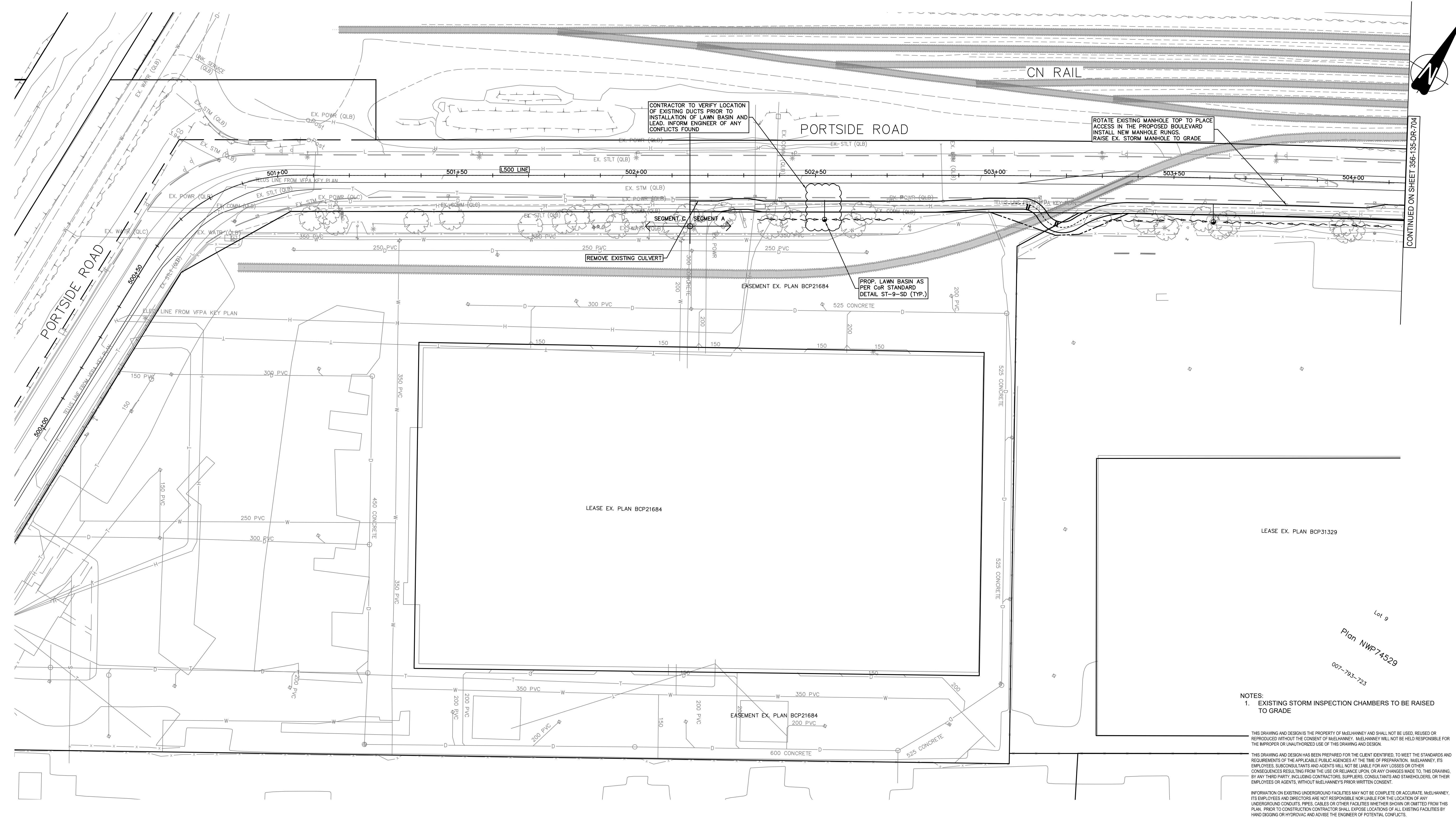
**GREATER VANCOUVER GATEWAY 2030  
PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
PORTSIDE ROAD  
DRAINAGE AND STORM SEWERS**

SIZE DWG: **356-135-DR-702**

SHEET **2 of 5** REV **C**

TITLE BLOCK CL-TR-04

DATE: 20221118 - 7:01pm  
PATH: X:\211111.00 - DB Projects\2111-40118-00 Ledor - Portside-Blundell Rd Imp\10.0 DRAWINGS\10.2 Civil\10.2A10.3.1 Sheets\10.2A-MECS-DWG-DR-700-STM.dwg



CONTINUED ON SHEET 356-135-DR-704

NOTES:  
 1. EXISTING STORM INSPECTION CHAMBERS TO BE RAISED TO GRADE

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Lot 9  
 Plan NWP74529  
 007-793-723

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C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	NS
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

**PORT of vancouver**

**Vancouver Fraser Port Authority**

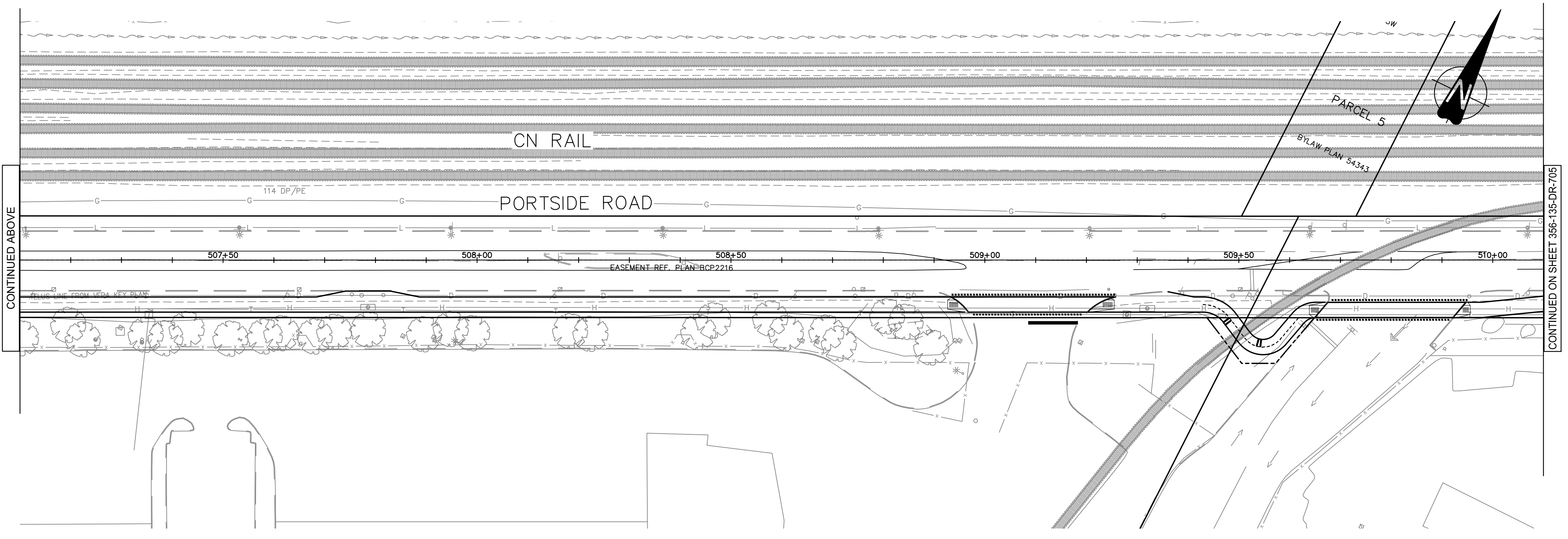
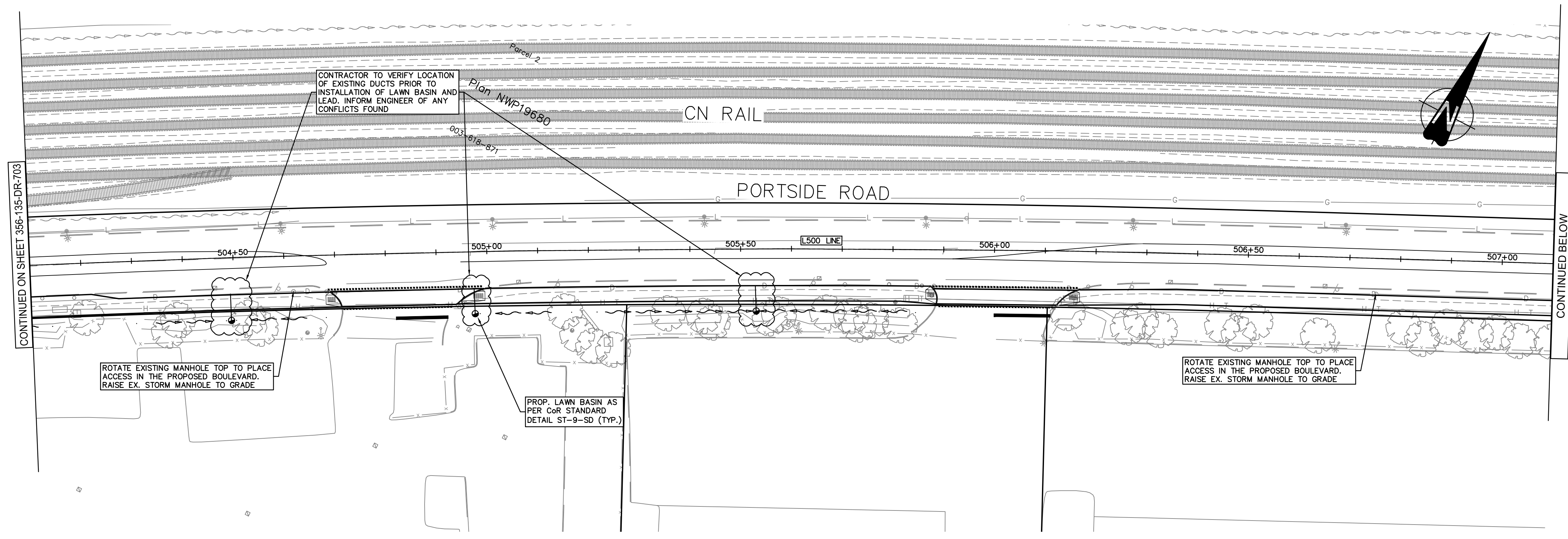
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DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
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**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD**  
**DRAINAGE AND STORM SEWERS**

356-135-DR-703

SIZE DWG: 356-135-DR-703  
 SHEET 3 of 5  
 REV C



- NOTES:
- EXISTING STORM INSPECTION CHAMBERS TO BE RAISED TO GRADE

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C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	NS
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

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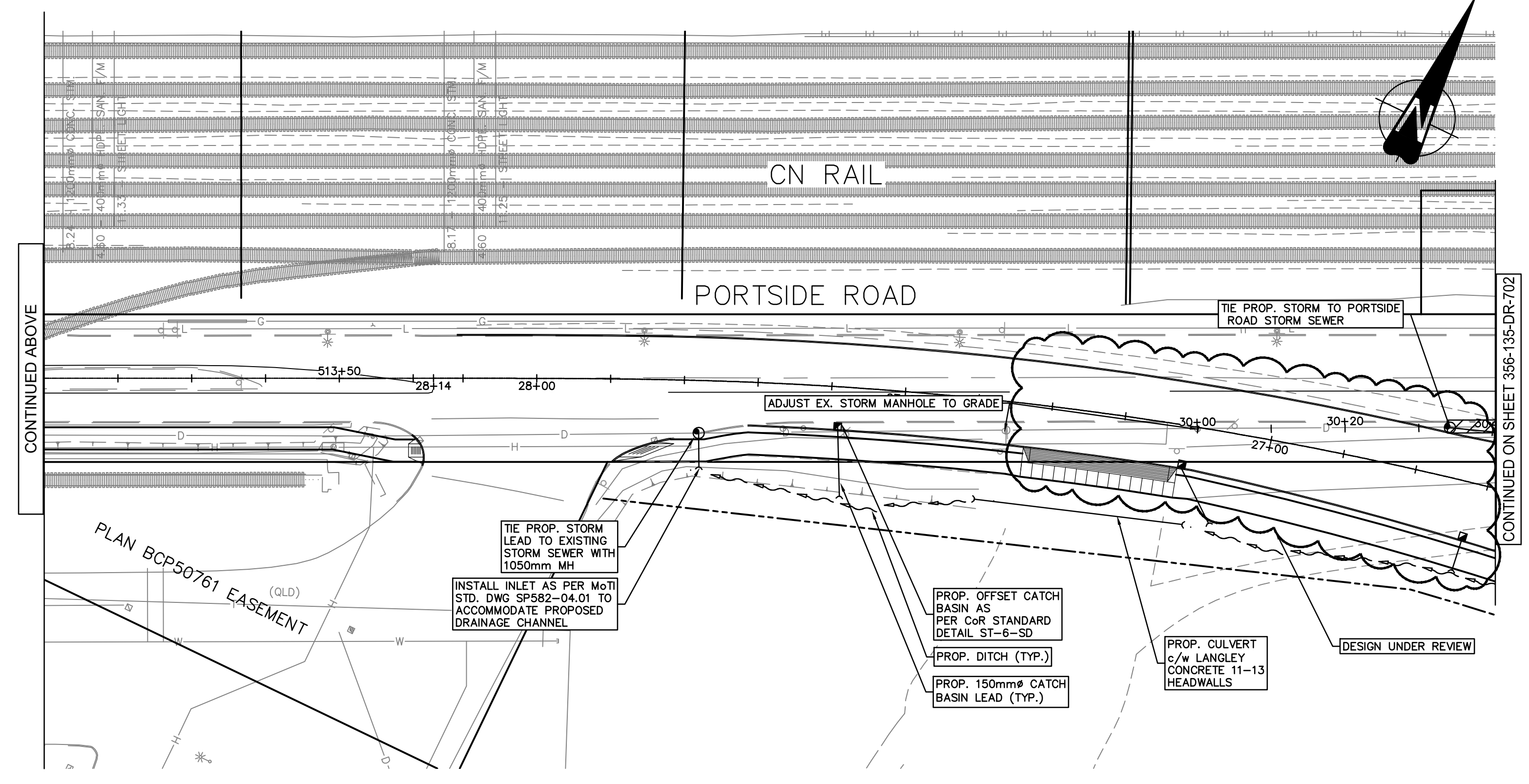
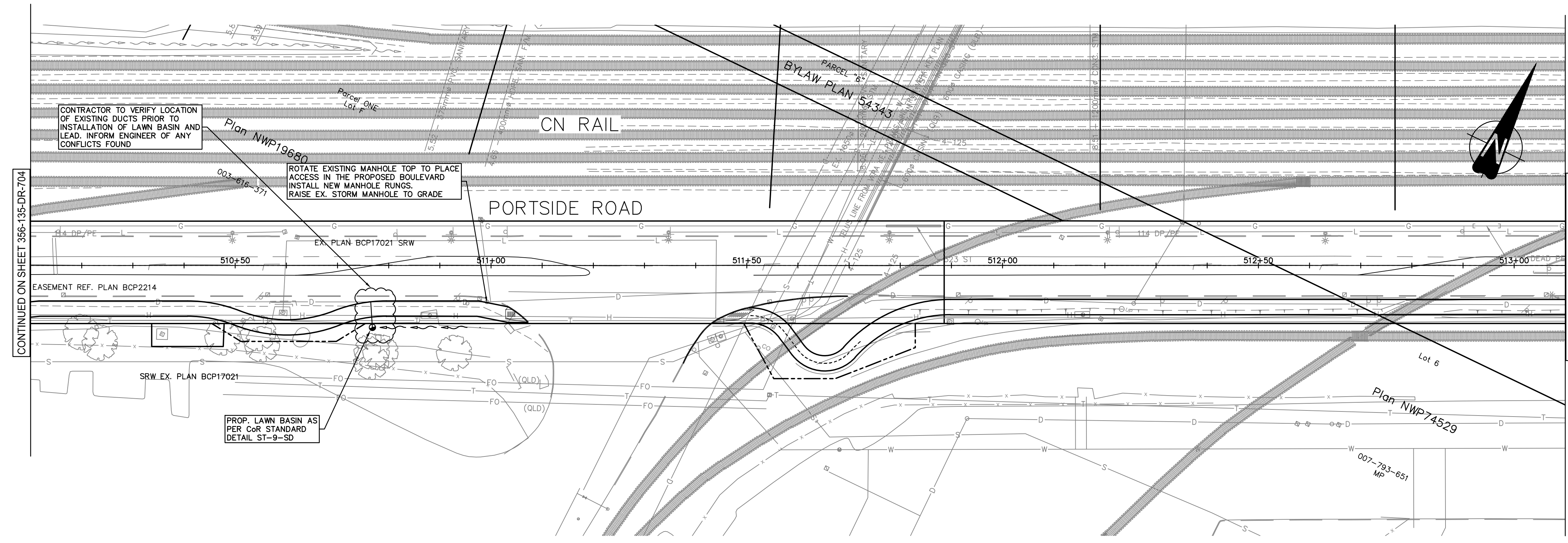
DESIGN BY	M. THIESSEN
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD**  
**DRAINAGE AND STORM SEWERS**

SIZE DWG: **356-135-DR-704**

SHEET **4 of 5** REV **C**

TITLE BLOCK (L1) (B) (W)



- NOTES:
- EXISTING STORM INSPECTION CHAMBERS TO BE RAISED TO GRADE

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DATE: 2022/11/18 - 6:38pm  
 PATH: X:\211111\11.00 - DB Projects\2111-40118-00 Ledor - Portside-Blundell Rd Imp\11.00 DRAWINGS\10.2 Civil\1020A10.3.1 Sheets\1020A-MECS-DWG-DR-700-STM.dwg

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B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

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DESIGN BY	M. THIESSEN
DRAWN BY	E. YANG
APPROVED	L. ZAREI
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030**

**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**

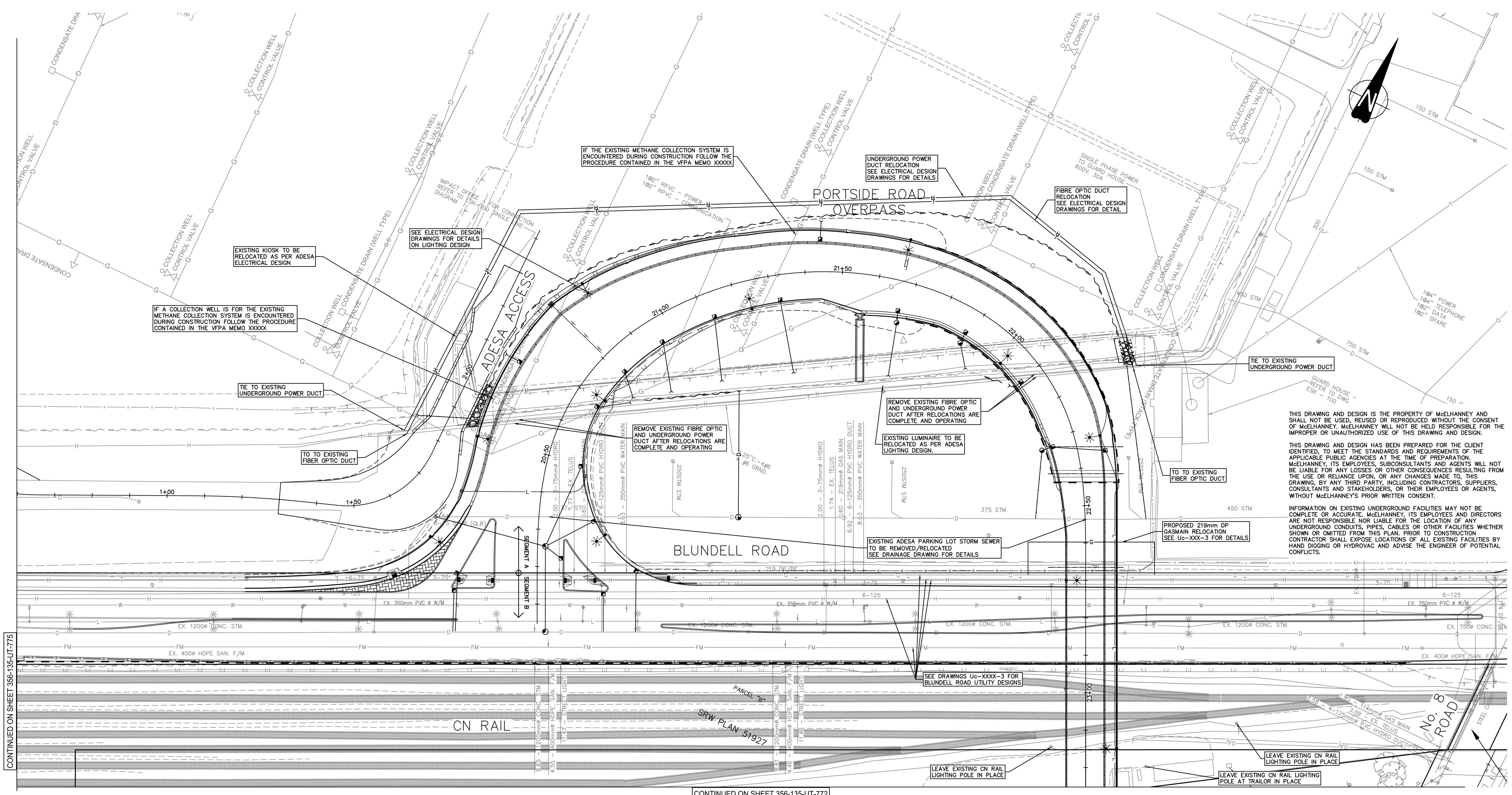
**PORTSIDE ROAD**

**DRAINAGE AND STORM SEWERS**

SIZE DWG: **356-135-DR-705**

SHEET **5 of 5** REV **C**

DATE: 2022/11/18 - 8:32am  
 PATH: X:\211111.00 - DB Projects\2111-40118-00 Ledor - Portside-Blundell Rd Imp\10.0 DRAWINGS\10.2 Civil\1020A-MECS-DWG-UT-770-UTR.dwg  
 TITLE BLOCK CL-TR.dwg



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CONTINUED ON SHEET 356-135-UT-775

CONTINUED ON SHEET 356-135-UT-772

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B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

ENGINEERING DEPARTMENT

DESIGN BY	S. WAARNE
DRAWN BY	E. YANG
APPROVED	T. SMILJANIC
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

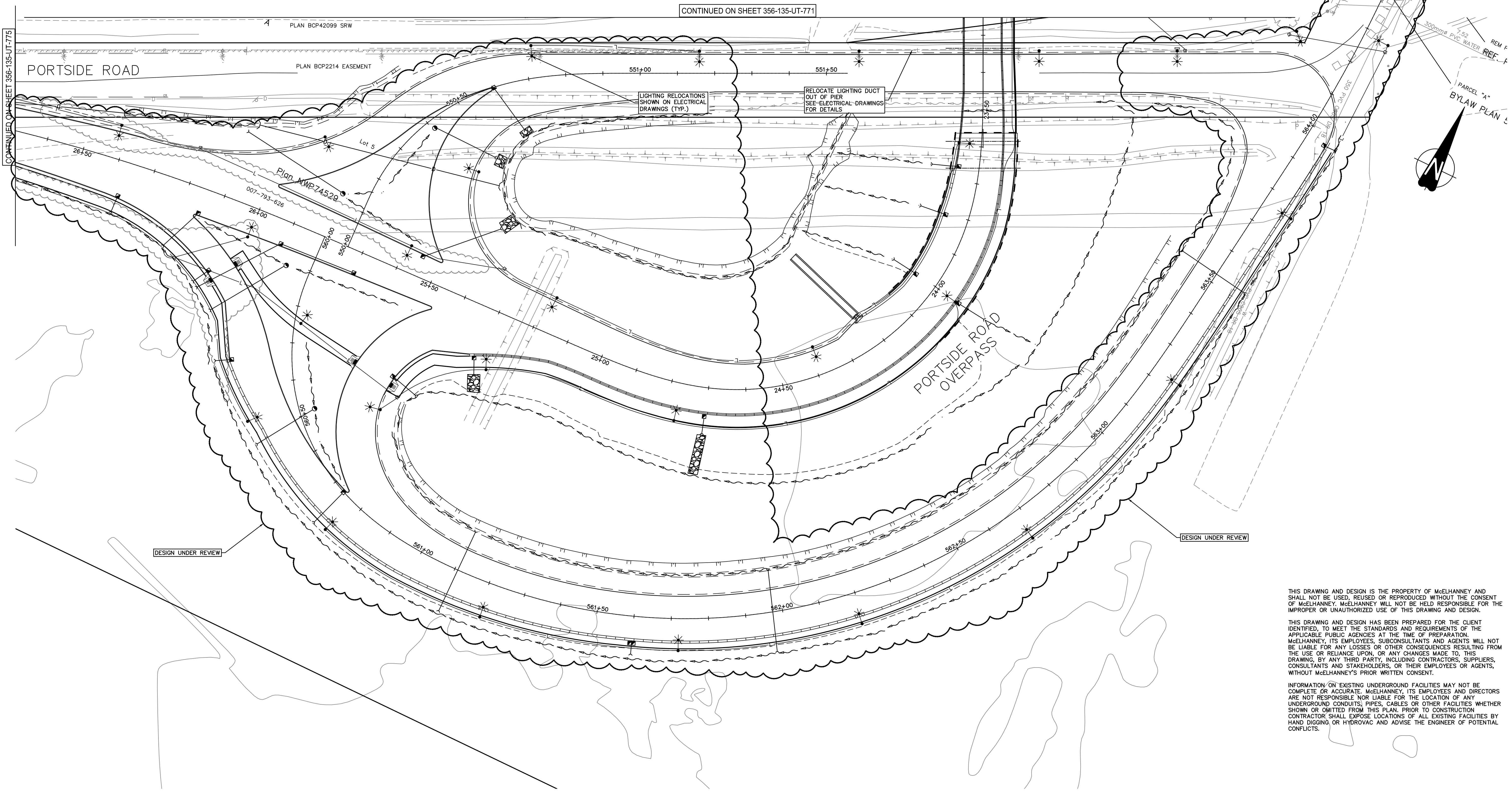
**GREATER VANCOUVER GATEWAY 2030  
 PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT  
 PORTSIDE ROAD  
 UTILITY RELOCATIONS**

356-135-UT-771

SHEET 1 of 5 REV C



CONTINUED ON SHEET 356-135-UT-771



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B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

**PORT of vancouver**

Vancouver Fraser Port Authority

ENGINEERING DEPARTMENT

DESIGN BY	S. WAARNE
DRAWN BY	E. YANG
APPROVED	T. SMILJANIC
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030**

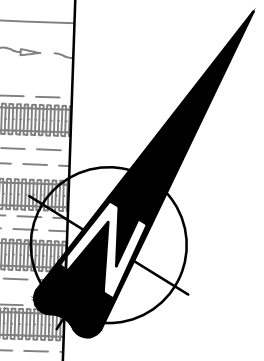
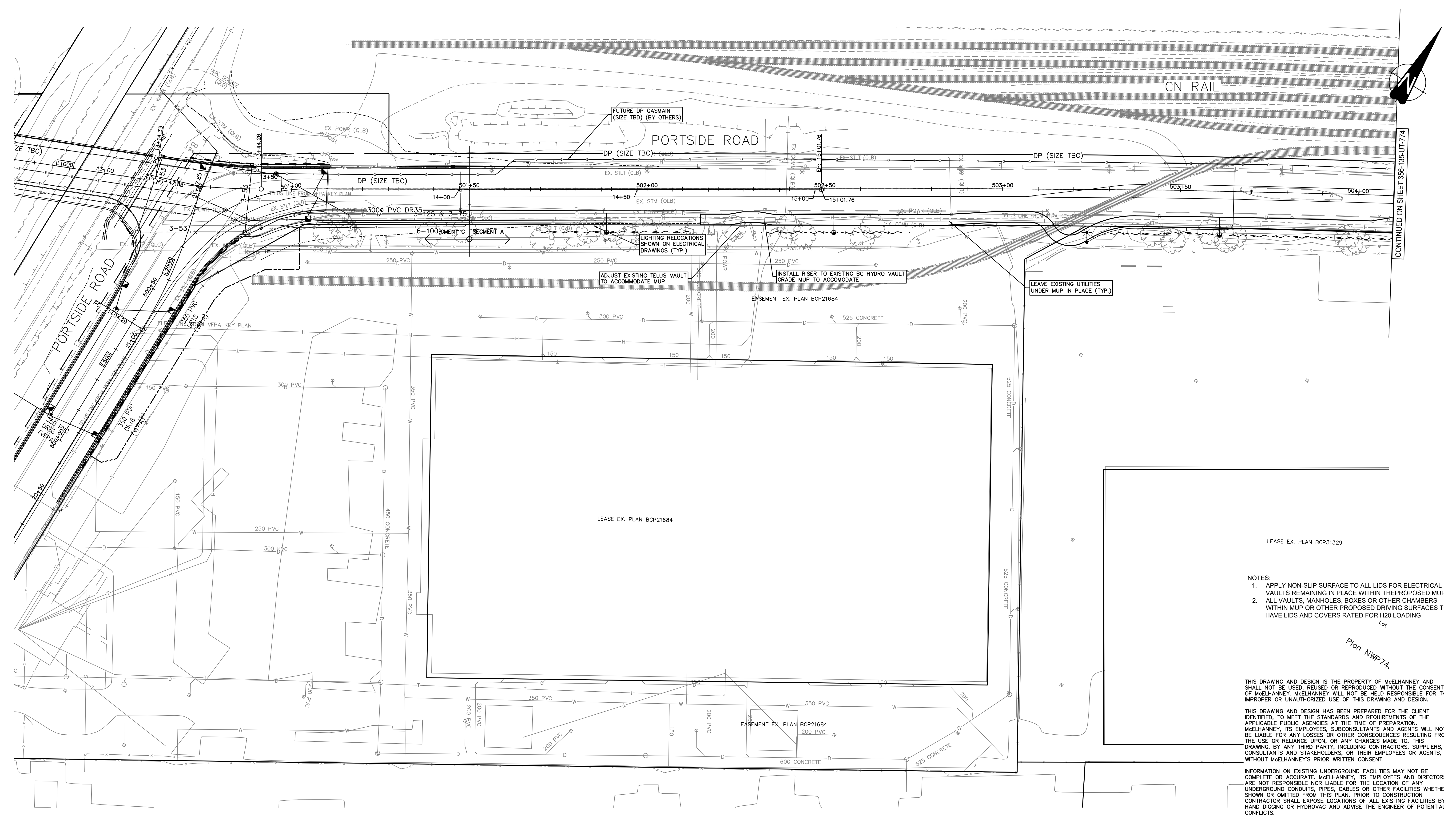
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**

**PORTSIDE ROAD**

**UTILITY RELOCATIONS**

356-135-UT-772

SIZE	DWG	SHEET	REV
D		2 of 5	C



CONTINUED ON SHEET 356-135-UT-77A

- NOTES:
1. APPLY NON-SLIP SURFACE TO ALL LIDS FOR ELECTRICAL VAULTS REMAINING IN PLACE WITHIN THE PROPOSED MUP.
  2. ALL VAULTS, MANHOLES, BOXES OR OTHER CHAMBERS WITHIN MUP OR OTHER PROPOSED DRIVING SURFACES TO HAVE LIDS AND COVERS RATED FOR H20 LOADING

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No.	Date	REVISION	Dr'n	Ch'd
C	2022-11-18	INDICATIVE DESIGN SUBMISSION	ST	MC
B	2022-09-13	INDICATIVE DESIGN SUBMISSION DRAFT FOR IDR	HG	LZ
A	2022-06-30	PRELIMINARY DESIGN SUBMISSION	EY	LZ

**PORT of vancouver**

Vancouver Fraser Port Authority

ENGINEERING DEPARTMENT

DESIGN BY	S. WAARNE
DRAWN BY	E. YANG
APPROVED	T. SMILJANIC
DATE	2022-06-30
SCALE	1:500
VFPA SITE	356

**GREATER VANCOUVER GATEWAY 2030**

**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**

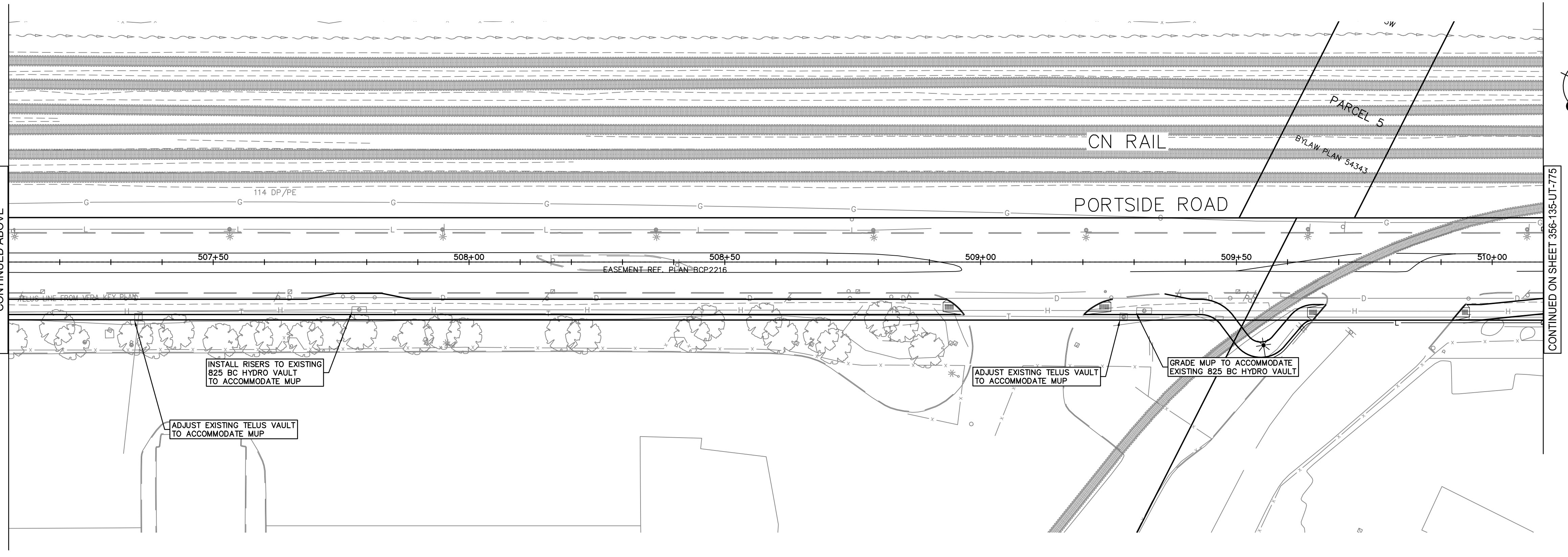
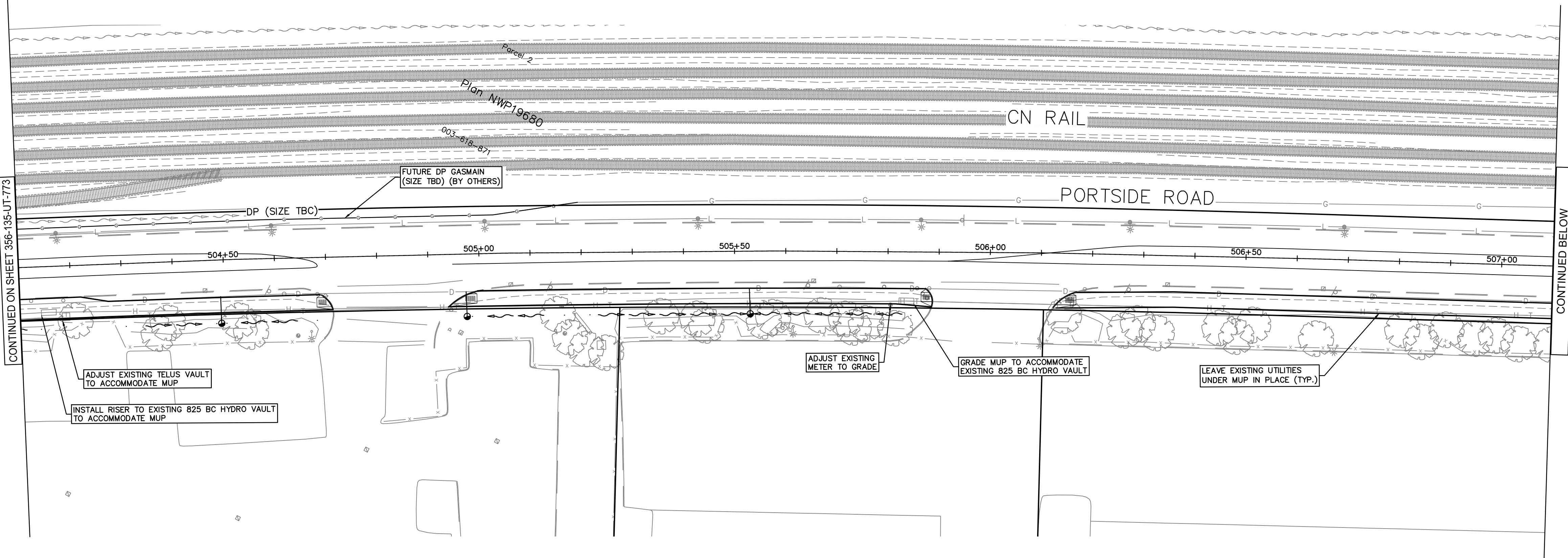
**PORTSIDE ROAD**

**UTILITY RELOCATIONS**

356-135-UT-773

SIZE	DWG	SHEET	REV
D		3 of 5	C

TITLE BLOCK - UT-774.dwg



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DATE: 2022/11/18 - 8:23am  
 PATH: X:\211111\11-00 - DB Projects\2111-40118-00 Ledor - Portside-Blundell Rd Imp\11.0 DRAWINGS\10.2 Civil\1020A\10.3.1 Sheets\1020A-MECS-DWG-UT-774-UTR.dwg

Ref. No.	REFERENCE



**LEDOR GROUP**

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DESIGN BY S. WAARNE  
 DRAWN BY E. YANG  
 APPROVED T. SMILJANIC  
 DATE 2022-06-30  
 SCALE 1:500  
 VFPA SITE 356

**GREATER VANCOUVER GATEWAY 2030**  
**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**  
**PORTSIDE ROAD**  
**UTILITY RELOCATIONS**

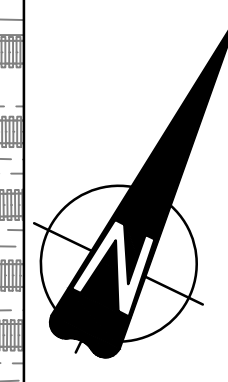
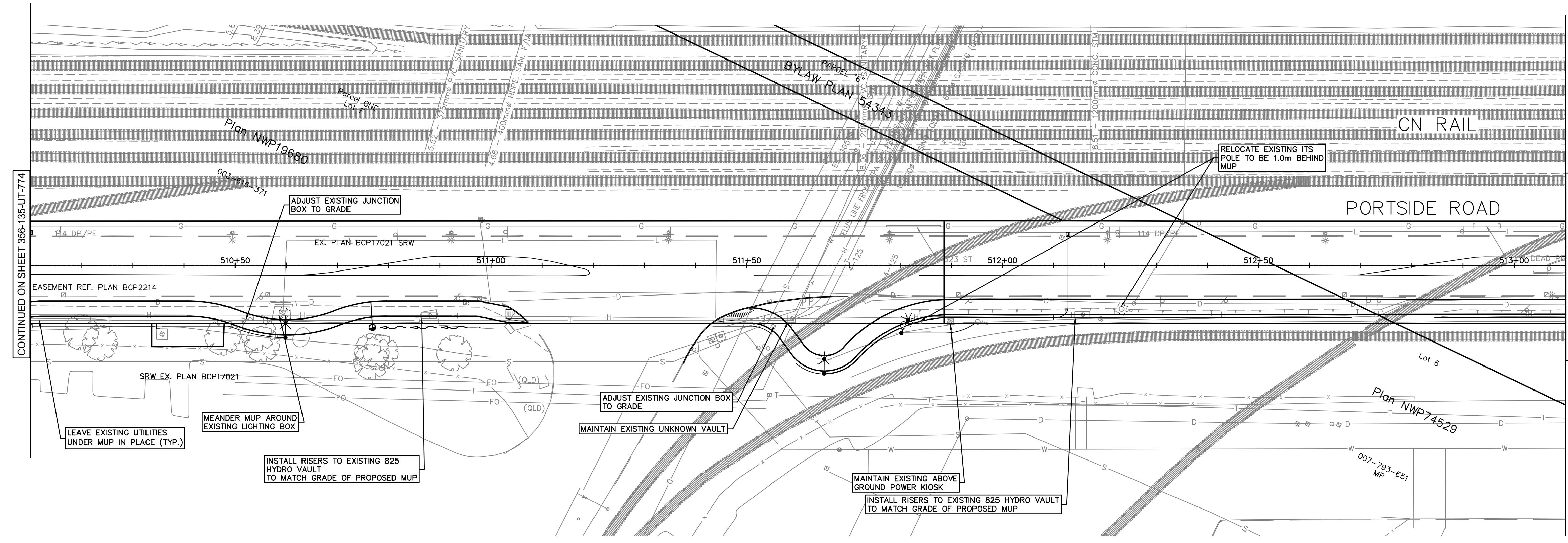
ENGINEERING DEPARTMENT

SIZE D DWG 356-135-UT-774

SHEET 4 of 5 REV C

- NOTES:
1. APPLY NON-SLIP SURFACE TO ALL LIDS FOR ELECTRICAL VAULTS REMAINING IN PLACE WITHIN THE PROPOSED MUP.
  2. ALL VAULTS, MANHOLES, BOXES OR OTHER CHAMBERS WITHIN MUP OR OTHER PROPOSED DRIVING SURFACES TO HAVE LIDS AND COVERS RATED FOR H20 LOADING

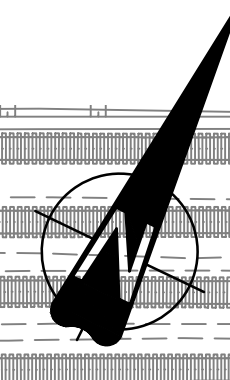
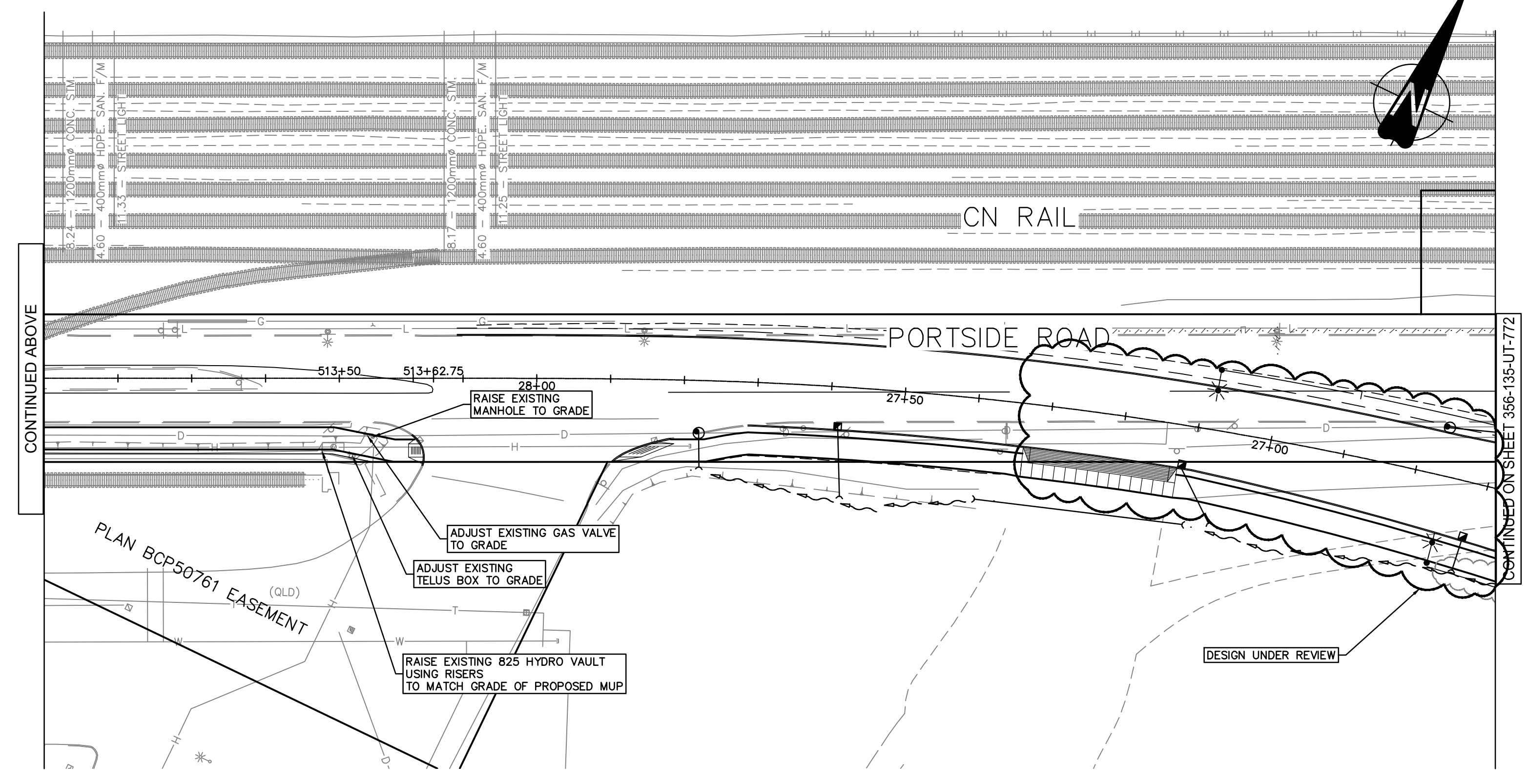
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PATH: X:\2111\11.00 - DB Projects\2111-40118-00 Ledor - Portside-Blundell Rd Imp\10.0 DRAWINGS\10.2 Civil\10.20A10.3.1 Sheets\10.20A-MECS-DWG-UT-770-UTR.dwg

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**GREATER VANCOUVER GATEWAY 2030**

**PORTSIDE / BLUNDELL ROAD IMPROVEMENT PROJECT**

**PORTSIDE ROAD**

**UTILITY RELOCATIONS**

356-135-UT-775

SIZE	DWG	SHEET	REV
D		5 of 5	C