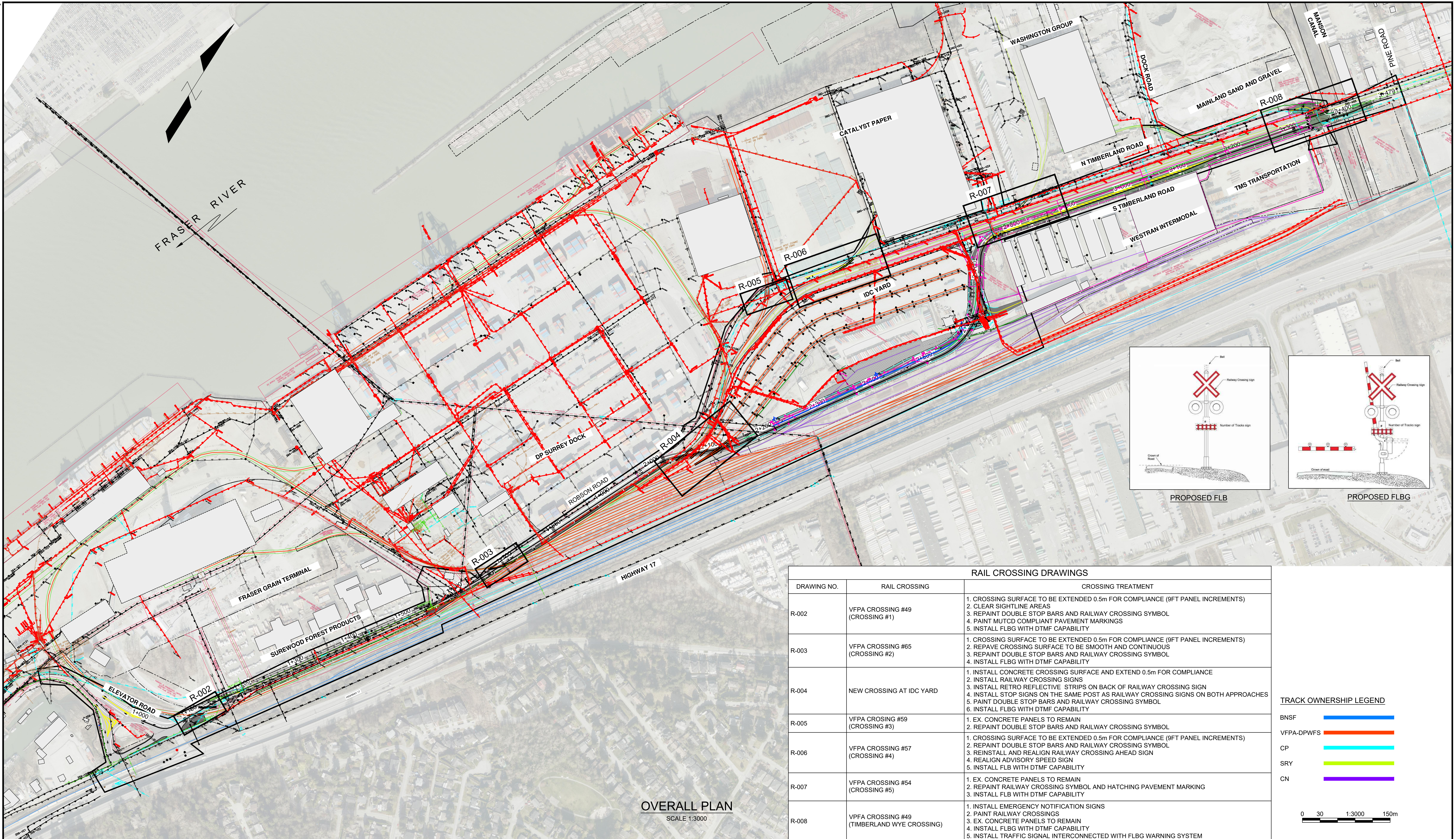
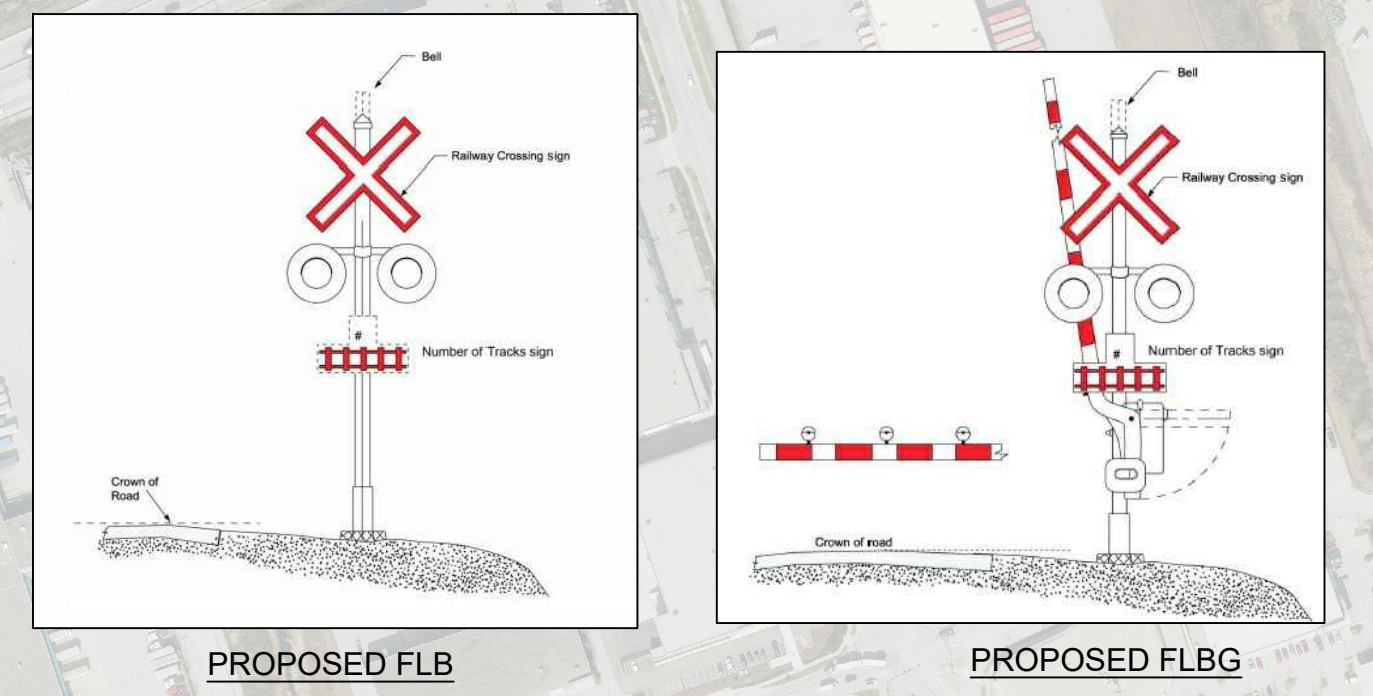


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OVERALL PLAN
SCALE 1:3000



RAIL CROSSING DRAWINGS		
DRAWING NO.	RAIL CROSSING	CROSSING TREATMENT
R-002	VFPA CROSSING #49 (CROSSING #1)	1. CROSSING SURFACE TO BE EXTENDED 0.5m FOR COMPLIANCE (9FT PANEL INCREMENTS) 2. CLEAR SIGHTLINE AREAS 3. REPAINT DOUBLE STOP BARS AND RAILWAY CROSSING SYMBOL 4. PAINT MUTCD COMPLIANT PAVEMENT MARKINGS 5. INSTALL FLBG WITH DTMF CAPABILITY
R-003	VFPA CROSSING #65 (CROSSING #2)	1. CROSSING SURFACE TO BE EXTENDED 0.5m FOR COMPLIANCE (9FT PANEL INCREMENTS) 2. REPAVE CROSSING SURFACE TO BE SMOOTH AND CONTINUOUS 3. REPAINT DOUBLE STOP BARS AND RAILWAY CROSSING SYMBOL 4. INSTALL FLBG WITH DTMF CAPABILITY
R-004	NEW CROSSING AT IDC YARD	1. INSTALL CONCRETE CROSSING SURFACE AND EXTEND 0.5m FOR COMPLIANCE 2. INSTALL RAILWAY CROSSING SIGNS 3. INSTALL RETRO REFLECTIVE STRIPS ON BACK OF RAILWAY CROSSING SIGN 4. INSTALL STOP SIGNS ON THE SAME POST AS RAILWAY CROSSING SIGNS ON BOTH APPROACHES 5. PAINT DOUBLE STOP BARS AND RAILWAY CROSSING SYMBOL 6. INSTALL FLBG WITH DTMF CAPABILITY
R-005	VFPA CROSSING #59 (CROSSING #3)	1. EX. CONCRETE PANELS TO REMAIN 2. REPAINT DOUBLE STOP BARS AND RAILWAY CROSSING SYMBOL
R-006	VFPA CROSSING #57 (CROSSING #4)	1. CROSSING SURFACE TO BE EXTENDED 0.5m FOR COMPLIANCE (9FT PANEL INCREMENTS) 2. REPAINT DOUBLE STOP BARS AND RAILWAY CROSSING SYMBOL 3. REINSTALL AND REALIGN RAILWAY CROSSING AHEAD SIGN 4. REALIGN ADVISORY SPEED SIGN 5. INSTALL FLB WITH DTMF CAPABILITY
R-007	VFPA CROSSING #54 (CROSSING #5)	1. EX. CONCRETE PANELS TO REMAIN 2. REPAINT RAILWAY CROSSING SYMBOL AND HATCHING PAVEMENT MARKING 3. INSTALL FLB WITH DTMF CAPABILITY
R-008	VFPA CROSSING #49 (TIMBERLAND WYE CROSSING)	1. INSTALL EMERGENCY NOTIFICATION SIGNS 2. PAINT RAILWAY CROSSINGS 3. EX. CONCRETE PANELS TO REMAIN 4. INSTALL FLBG WITH DTMF CAPABILITY 5. INSTALL TRAFFIC SIGNAL INTERCONNECTED WITH FLBG WARNING SYSTEM

TRACK OWNERSHIP LEGEND

- BNSF —
- VFPA-DPWFS —
- CP —
- SRV —
- CN —

0 30 1:3000 150m

Ref.No.	REFERENCE
1	WSP PROJECT NO. 20M-00758-00

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April 29, 2021



No.	Date	REVISION	Dr'n	Ch'd
B	2021/04/23	ISSUED FOR PER SUBMISSION	IL	VT
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT

PORT of vancouver

VANCOUVER FRASER PORT AUTHORITY
ENGINEERING DEPARTMENT

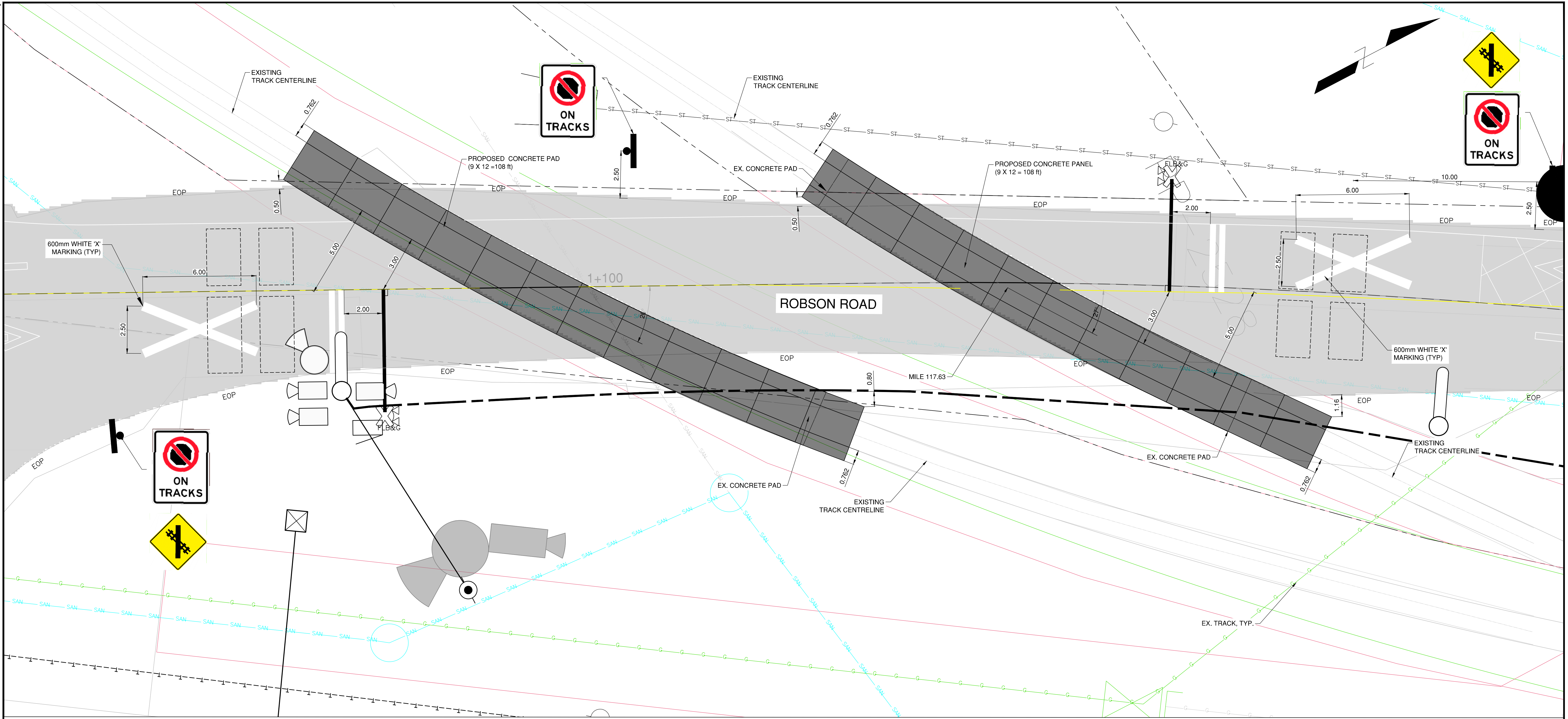
DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TJIA
DATE	2021/04/23
SCALE	1:3000
PMV SITE	

**GREATER VANCOUVER GATEWAY 2030
FSPL TRANSPORTATION IMPROVEMENTS
AFFECTED AT-GRADE RAIL CROSSINGS
OVERALL SITE PLAN**

SHEET 1 of 12 REV. B

R-001

TITLE BLOCK: DL-TE.dwg
 DATE: 2021/04/29 - 9:37am
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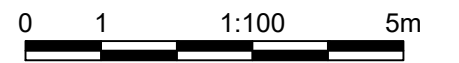
VFPA CROSSING #75
SCALE 1:100

LEGEND AND ABBREVIATIONS

- FL FLASHING LIGHT UNITS
- FLB FLASHING LIGHT UNITS AND BELL
- FLB&G FLASHING LIGHT UNITS, BELL AND GATE
- EOP EDGE OF PAVEMENT
- R.O.W. RIGHT OF WAY
- CW COMPLETING WITH
- ▽ FLASHING LIGHT UNIT (EX./PROP.)
- MILL AND OVERLAY
- CONCRETE CROSSING SURFACE

GENERAL NOTES

1. ALL DIMENSION ARE IN METERS UNLESS NOTED OTHERWISE.
2. COORDINATE SYSTEM IS GCM 10H2595 LOCATED IN SURREY DOCKS.
3. ROAD SURFACE:
 - ASPHALT
 SIDEWALK SURFACE:
 - CONCRETE
 CROSSING SURFACE:
 - ROAD: ASPHALT WITH PROPER RUBBER FLANGE WAY
 - SIDEWALK: ASPHALT (BOTH SIDES)
 DESIGN VEHICLE:
 - TRACTOR SEMI TRAILERS
4. VEHICLE SPEED AND TRAFFIC COUNTS:
 - 50 km/h AND 1780 AADT (2020), 980 AADT (2022)
5. TRAIN SPEED AND TRAFFIC COUNTS:
 - 10 mph AND 30 FREIGHTS/DAY



**NOT FOR
 CONSTRUCTION**
 April 29, 2021



DESIGN BY K. YANG
 DRAWN BY I. LOZADA
 APPROVED V. TJIA
 DATE 2020/12/18
 SCALE 1:200
 PMV SITE

GREATER VANCOUVER GATEWAY 2030
 FSPL TRANSPORTATION IMPROVEMENTS
 AFFECTED AT-GRADE RAIL CROSSING
 VFPA CROSSING #75 (CROSSING #1)

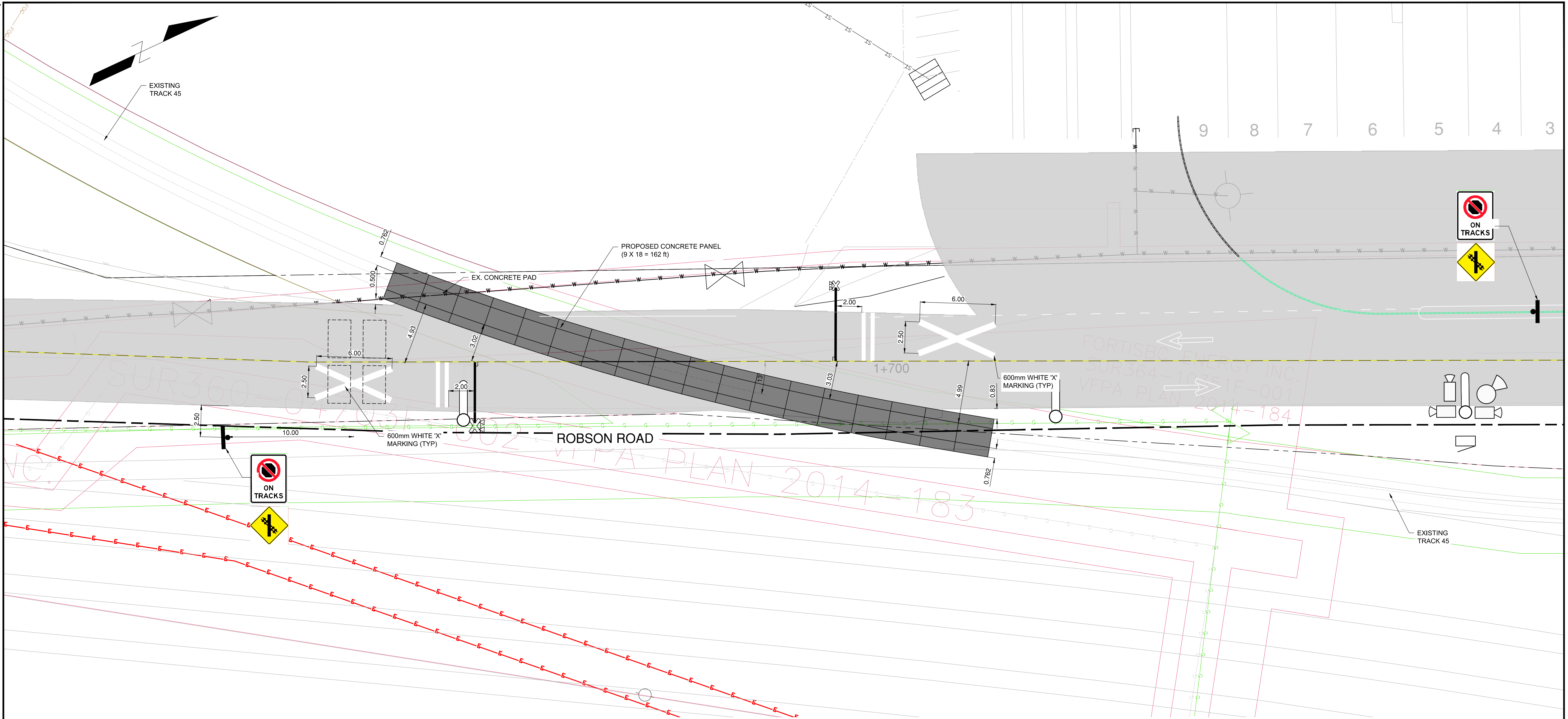
Ref.No.	REFERENCE
1	WSP PROJECT NO. 20M-00758-00

No.	Date	REVISION	Dr'n	Ch'd
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT

VANCOUVER FRASER PORT AUTHORITY
 ENGINEERING DEPARTMENT

SIZE D DWG. R-002 SHEET 2 of 12 REV. A

TITLE BLOCK: DL-TR.dwg
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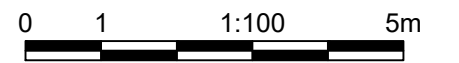
VPFA CROSSING #65
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LEGEND AND ABBREVIATIONS

- FL FLASHING LIGHT UNITS
- FLB FLASHING LIGHT UNITS AND BELL
- FLB&G FLASHING LIGHT UNITS, BELL AND GATE
- EOP EDGE OF PAVEMENT
- R.O.W. RIGHT OF WAY
- CW COMPLETING WITH
- ▽ FLASHING LIGHT UNIT (EX./PROP.)
- █ MILL AND OVERLAY
- █ CONCRETE CROSSING SURFACE

GENERAL NOTES

1. ALL DIMENSION ARE IN METERS UNLESS NOTED OTHERWISE.
2. COORDINATE SYSTEM IS GCM 10H2595 LOCATED IN SURREY DOCKS.
3. ROAD SURFACE:
 - ASPHALT
 SIDEWALK SURFACE:
 - CONCRETE
 CROSSING SURFACE:
 - ROAD: ASPHALT WITH PROPER RUBBER FLANGEWAY
 - SIDEWALK: ASPHALT (BOTH SIDES)
 DESIGN VEHICLE:
 -TRACTOR SEMITRAILERS
4. VEHICLE SPEED AND TRAFFIC COUNTS:
 - 50 km/h AND 2830 AADT (2020), 2250 AADT (2022)
5. TRAIN SPEED AND TRAFFIC COUNTS:
 -10 mph AND 30 FREIGHTS/DAY



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 April 29, 2021



DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TJIA
DATE	2020/12/18
SCALE	1:200
PMV SITE	

GREATER VANCOUVER GATEWAY 2030
 FSPL TRANSPORTATION IMPROVEMENTS
 AFFECTED AT-GRADE RAIL CROSSING
 VPFA CROSSING #65 (CROSSING #2)

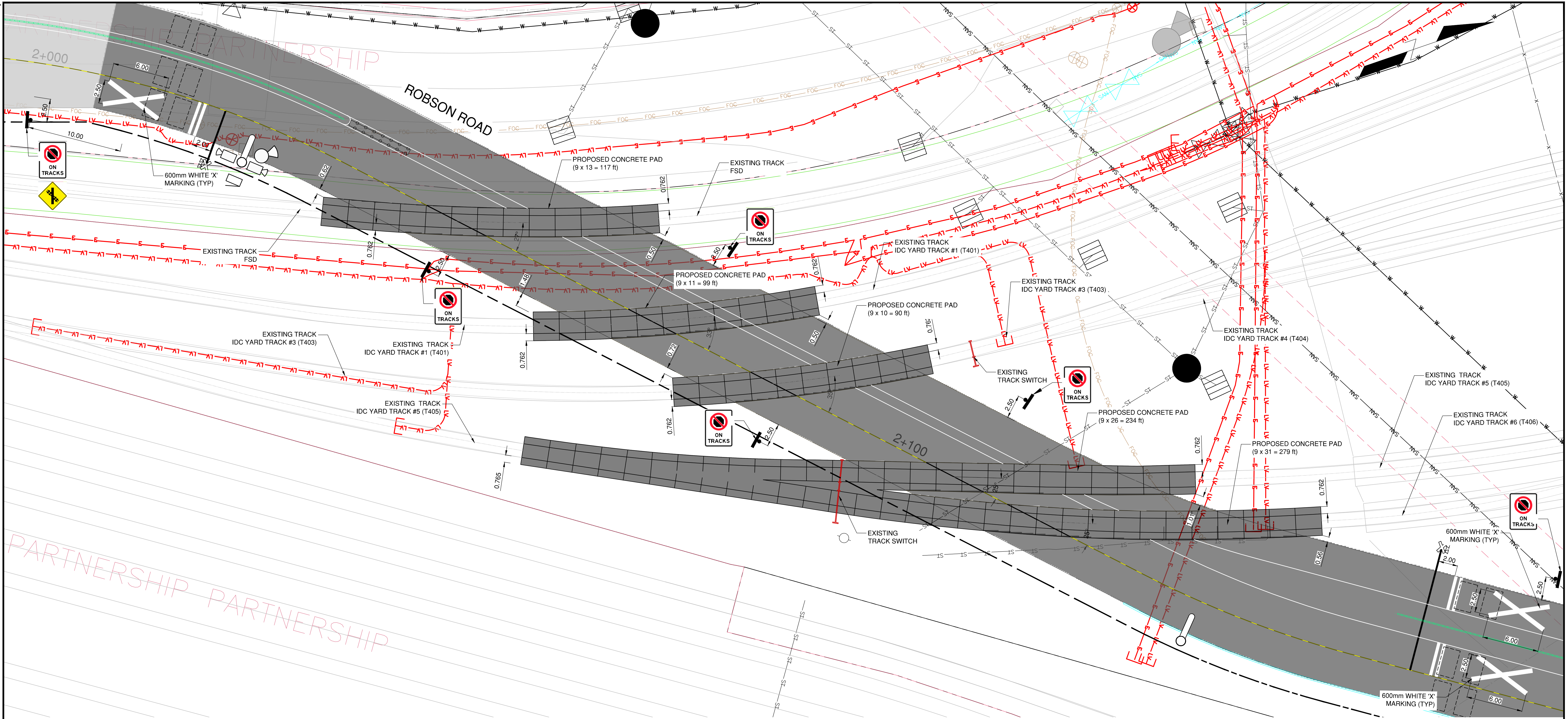
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Ref.No.	REFERENCE

No.	Date	REVISION	Dr'n	Ch'd
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT

VANCOUVER FRASER PORT AUTHORITY
 ENGINEERING DEPARTMENT

SIZE	DWG.	R-003	SHEET	REV.
D			3 of 12	A

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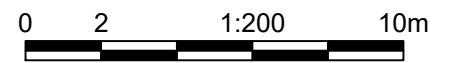
CROSSING AT IDC YARD
 SCALE 1:200

LEGEND AND ABBREVIATIONS

- FL FLASHING LIGHT UNITS
- FLB FLASHING LIGHT UNITS AND BELL
- FLB&G FLASHING LIGHT UNITS, BELL AND GATE
- EOP EDGE OF PAVEMENT
- R.O.W. RIGHT OF WAY
- C/W COMPLETING WITH
- ▽ FLASHING LIGHT UNIT (EX./PROP.)
- MILL AND OVERLAY
- CONCRETE CROSSING SURFACE
- NEW ROAD PAVEMENT

GENERAL NOTES

1. ALL DIMENSION ARE IN METERS UNLESS NOTED OTHERWISE.
2. COORDINATE SYSTEM IS GCM 10H2595 LOCATED IN SURREY DOCKS.
3. ROAD SURFACE:
 - ASPHALT
 SIDEWALK SURFACE:
 - CONCRETE
 CROSSING SURFACE:
 - ROAD: ASPHALT WITH PROPER RUBBER FLANGEWAY
 - SIDEWALK: ASPHALT (BOTH SIDES)
 DESIGN VEHICLE:
 -TRACTOR SEMITRAILERS
4. VEHICLE SPEED AND TRAFFIC COUNTS:
 - 50 km/h AND 1780 AADT (2020), 980 AADT (2022)
5. TRAIN SPEED AND TRAFFIC COUNTS:
 -10mph AND 30 FREIGHTS/DAY



**NOT FOR
 CONSTRUCTION**
 April 29, 2021



DESIGN BY K. YANG
 DRAWN BY I. LOZADA
 APPROVED V. TJIA
 DATE 2020/12/18
 SCALE 1:300
 PMV SITE

GREATER VANCOUVER GATEWAY 2030
 FSPL TRANSPORTATION IMPROVEMENTS
 AFFECTED AT-GRADE RAIL CROSSING
 CROSSING AT IDC YARD

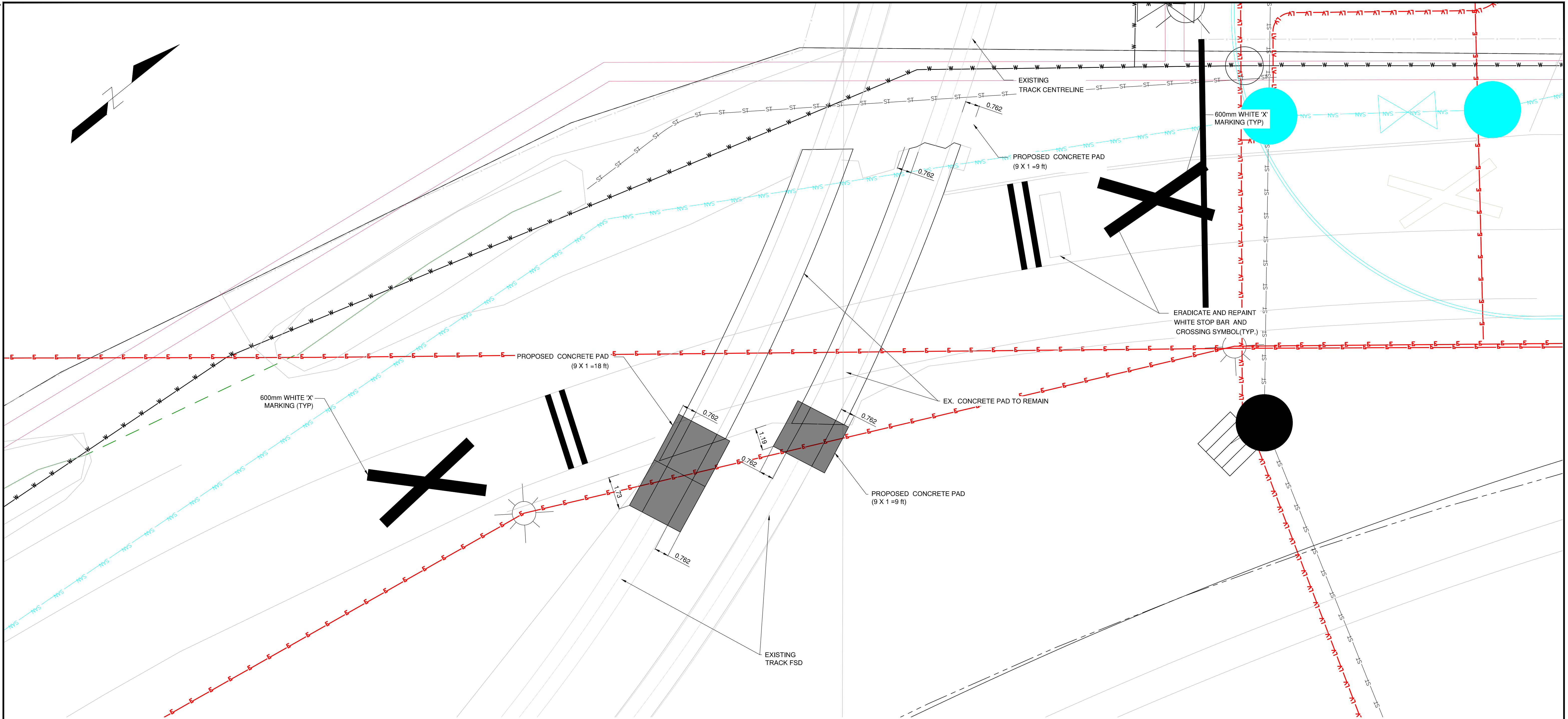
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No.	Date	REVISION	Dr'n	Ch'd
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VANCOUVER FRASER PORT AUTHORITY
 ENGINEERING DEPARTMENT

SIZE	Dwg.	R-004	SHEET	REV.
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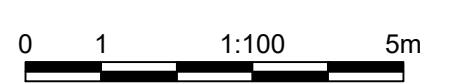
VFPA CROSSING #59
 SCALE 1:100

LEGEND AND ABBREVIATIONS

- FL FLASHING LIGHT UNITS
- FLB FLASHING LIGHT UNITS AND BELL
- FLB&G FLASHING LIGHT UNITS, BELL AND GATE
- EOP EDGE OF PAVEMENT
- R.O.W. RIGHT OF WAY
- C/W COMPLETING WITH
- ▽ FLASHING LIGHT UNIT (EX./PROP.)
- MILL AND OVERLAY
- CONCRETE CROSSING SURFACE

GENERAL NOTES

1. ALL DIMENSION ARE IN METERS UNLESS NOTED OTHERWISE.
2. COORDINATE SYSTEM IS GCM 10H2595 LOCATED IN SURREY DOCKS.
3. ROAD SURFACE:
 - ASPHALT
 SIDEWALK SURFACE:
 - CONCRETE
 CROSSING SURFACE:
 - ROAD: ASPHALT WITH PROPER RUBBER FLANGEWAY
 - SIDEWALK: ASPHALT (BOTH SIDES)
 DESIGN VEHICLE:
 -TRACTOR SEMITRAILERS
4. VEHICLE SPEED AND TRAFFIC COUNTS:
 - 50 km/h AND 2140 AADT (2020), 140 AADT (2022)
5. TRAIN SPEED AND TRAFFIC COUNTS:
 -10 mph AND 1 FREIGHTS/DAY



Ref.No.	REFERENCE
1	WSP PROJECT NO. 20M-00758-00

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 April 29, 2021



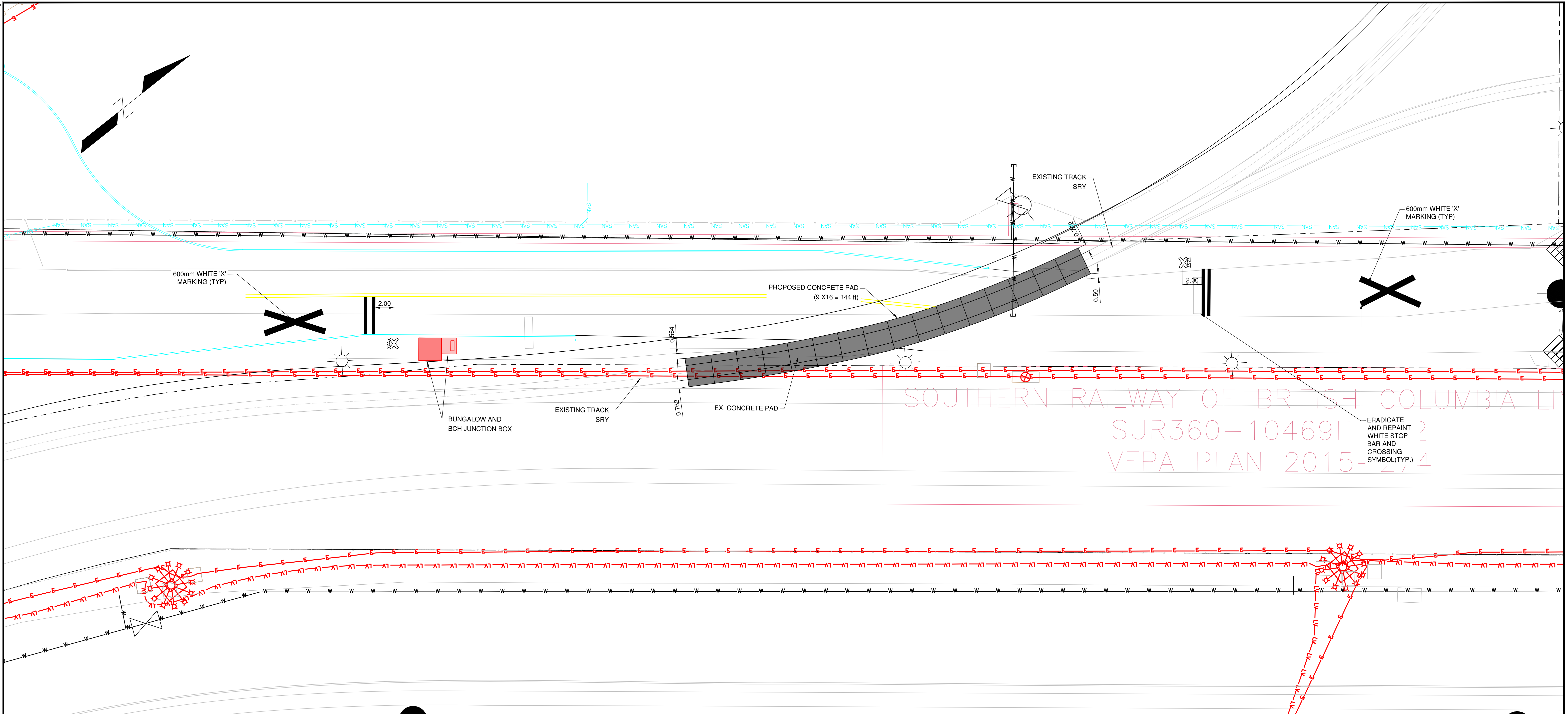
No.	Date	REVISION	Dr'n	Ch'd
B	2021/04/23	ISSUED FOR PER SUBMISSION	IL	VT
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT



DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TJIA
DATE	2021/04/23
SCALE	1:200
PMV SITE	

GREATER VANCOUVER GATEWAY 2030 FSPL TRANSPORTATION IMPROVEMENTS AFFECTED AT-GRADE RAIL CROSSING VFPA CROSSING #59 (CROSSING #3)	
SIZE	DWG.
D	R-005
SHEET	REV.
5 of 12	B

DATE: 2021/04/29 - 9:37am
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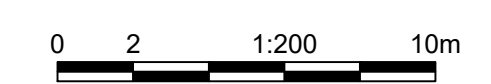


VFPA CROSSING #57
 SCALE 1:200

LEGEND AND ABBREVIATIONS

FL	FLASHING LIGHT UNITS
FLB	FLASHING LIGHT UNITS AND BELL
FLB&G	FLASHING LIGHT UNITS, BELL AND GATE
EOP	EDGE OF PAVEMENT
R.O.W.	RIGHT OF WAY
C/W	COMPLETING WITH
▽▽	FLASHING LIGHT UNIT (EX./PROP.)
▒	MILL AND OVERLAY
■	CONCRETE CROSSING SURFACE

- GENERAL NOTES**
- ALL DIMENSION ARE IN METERS UNLESS NOTED OTHERWISE.
 - COORDINATE SYSTEM IS GCM 10H2595 LOCATED IN SURREY DOCKS.
 - ROAD SURFACE:
 - ASPHALT
 SIDEWALK SURFACE:
 - CONCRETE
 CROSSING SURFACE:
 - ROAD: ASPHALT WITH PROPER RUBBER FLANGEWAY
 - SIDEWALK: ASPHALT (BOTH SIDES)
 DESIGN VEHICLE:
 -TRACTOR SEMITRAILERS
 - VEHICLE SPEED AND TRAFFIC COUNTS:
 - 50 km/h AND 2140 AADT , 140 AADT (2022)
 - TRAIN SPEED AND TRAFFIC COUNTS:
 -10 mph AND 5 FREIGHTS/DAY



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 April 29, 2021



No.	Date	REVISION	Dr'n	Ch'd
B	2021/04/23	ISSUED FOR PER SUBMISSION	IL	VT
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT



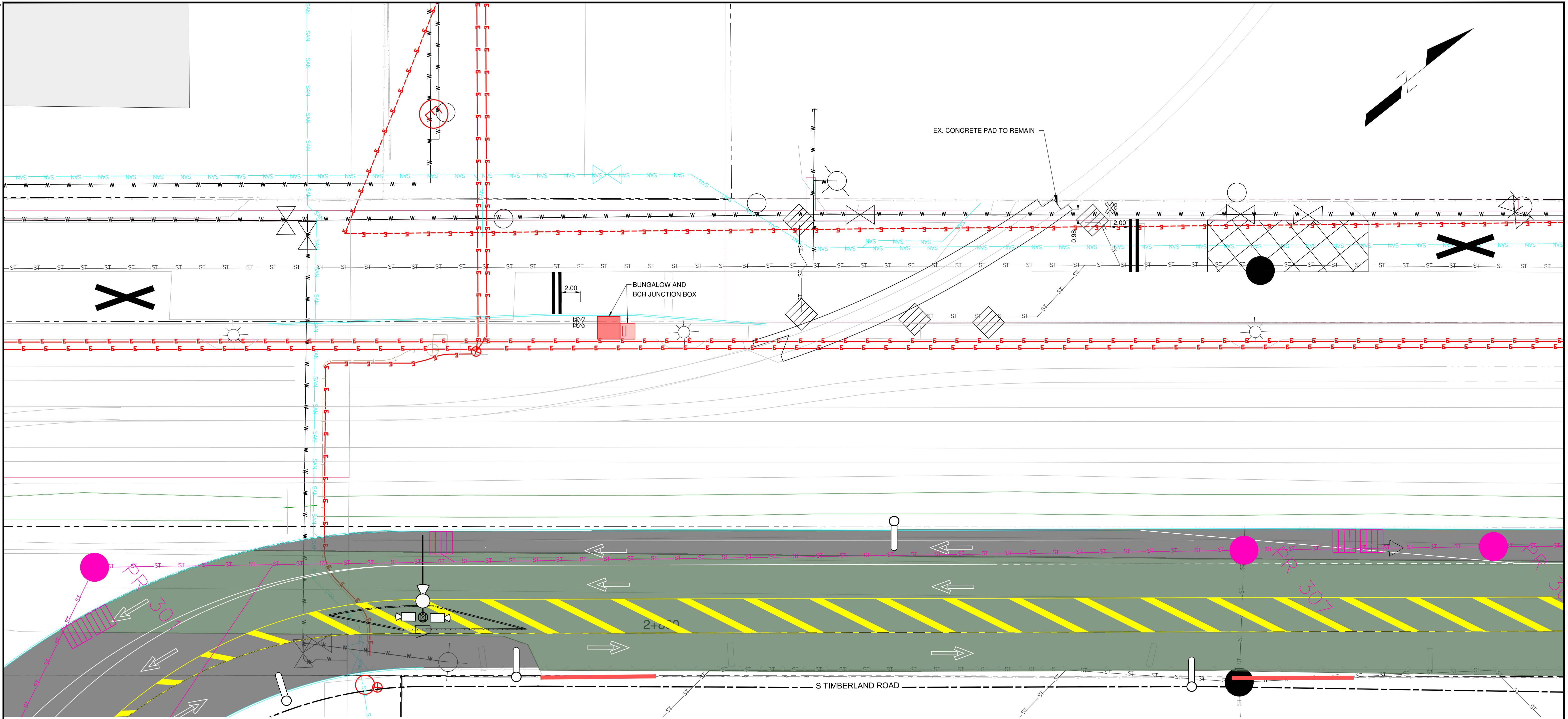
DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TJIA
DATE	2021/04/23
SCALE	1:200
PMV SITE	

GREATER VANCOUVER GATEWAY 2030
 FSPL TRANSPORTATION IMPROVEMENTS
 AFFECTED AT-GRADE RAIL CROSSING
 VFPA CROSSING #57 (CROSSING #4)

Ref.No.	REFERENCE
1	WSP PROJECT NO. 20M-00758-00

SIZE	DWG.	R-006	SHEET	REV.
D			6 of 12	B

DATE: 2021/04/29 - 9:38am
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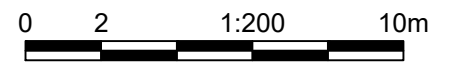
LEGEND AND ABBREVIATIONS

- FL FLASHING LIGHT UNITS
- FLB FLASHING LIGHT UNITS AND BELL
- FLB&G FLASHING LIGHT UNITS, BELL AND GATE
- EOP EDGE OF PAVEMENT
- R.O.W. RIGHT OF WAY
- C/W COMPLETING WITH
- ▽ FLASHING LIGHT UNIT (EX./PROP.)
- ▨ MILL AND OVERLAY
- ▩ CONCRETE CROSSING SURFACE
- ▬ NEW ROAD PAVEMENT

GENERAL NOTES

1. ALL DIMENSION ARE IN METERS UNLESS NOTED OTHERWISE.
2. COORDINATE SYSTEM IS GCM 10H2595 LOCATED IN SURREY DOCKS.
3. ROAD SURFACE:
 - ASPHALT
 SIDEWALK SURFACE:
 - CONCRETE
 CROSSING SURFACE:
 - ROAD: ASPHALT WITH PROPER RUBBER FLANGWAY
 - SIDEWALK: ASPHALT (BOTH SIDES)
 DESIGN VEHICLE:
 -TRACTOR SEMITRAILERS
4. VEHICLE SPEED AND TRAFFIC COUNTS:
 - 50 km/h AND 2390 AADT (2020), 460 AADT (2022)
5. TRAIN SPEED AND TRAFFIC COUNTS:
 -10 mph AND 1 FREIGHTS/DAY

**VFPA CROSSING #54
 SCALE 1:200**



Ref.No.	REFERENCE
1	WSP PROJECT NO. 20M-00758-00

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 April 29, 2021



No.	Date	REVISION	Dr'n	Ch'd
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT



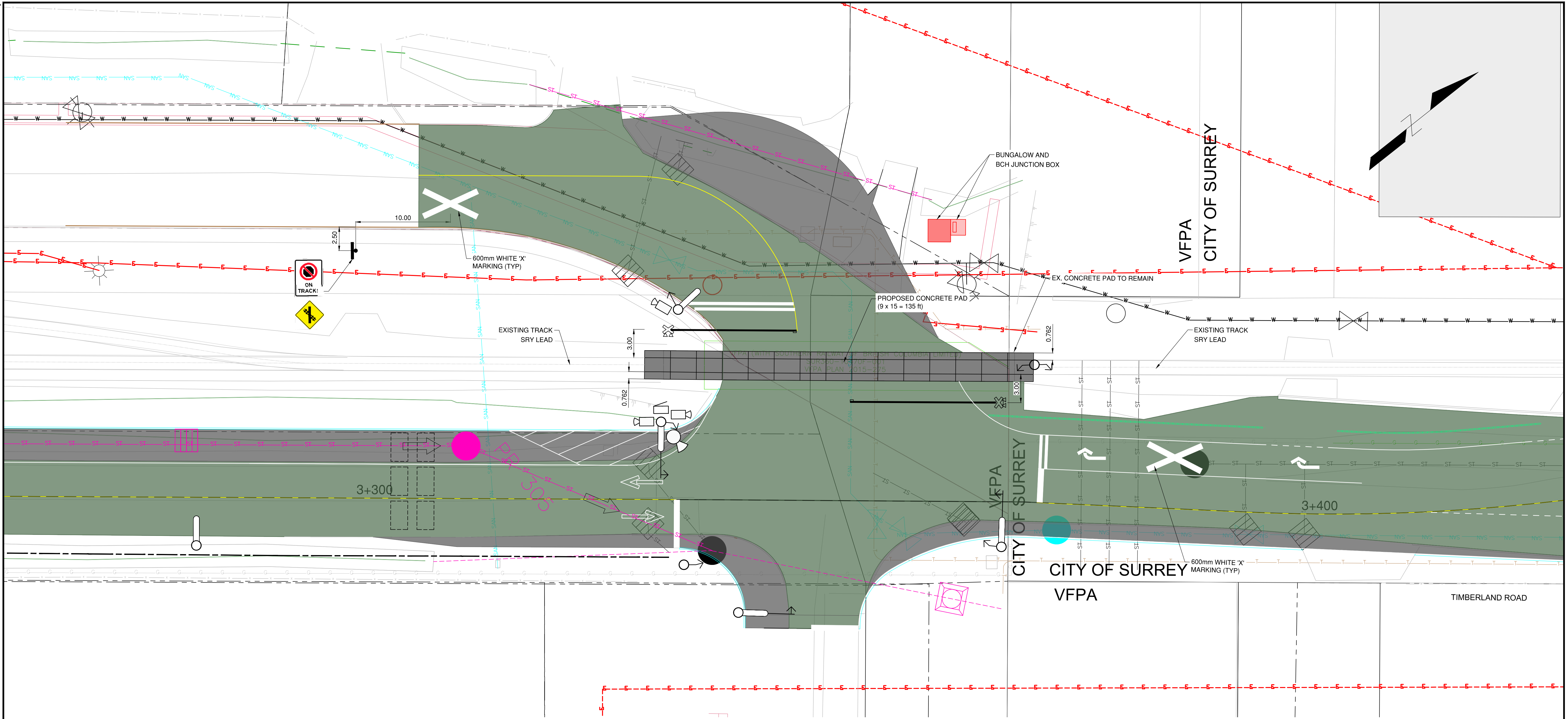
VANCOUVER FRASER PORT AUTHORITY
 ENGINEERING DEPARTMENT

DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TJIA
DATE	2020/12/18
SCALE	1:200
PMV SITE	

GREATER VANCOUVER GATEWAY 2030
 FSPL TRANSPORTATION IMPROVEMENTS
 AFFECTED AT-GRADE RAIL CROSSING
 VFPA CROSSING #54 (CROSSING #5)

SIZE	DWG.	R-007	SHEET	REV.
D			7 of 12	A

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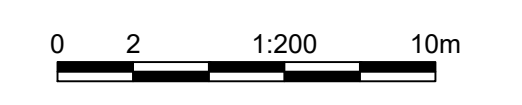
VFPA CROSSING #49
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LEGEND AND ABBREVIATIONS

- FL FLASHING LIGHT UNITS
- FLB FLASHING LIGHT UNITS AND BELL
- FLB&G FLASHING LIGHT UNITS, BELL AND GATE
- EOP EDGE OF PAVEMENT
- R.O.W. RIGHT OF WAY
- C/W COMPLETING WITH
- ▽ FLASHING LIGHT UNIT (EX./PROP.)
- MILL AND OVERLAY
- CONCRETE CROSSING SURFACE
- NEW ROAD PAVEMENT

GENERAL NOTES

1. ALL DIMENSION ARE IN METERS UNLESS NOTED OTHERWISE.
2. COORDINATE SYSTEM IS GCM 10H2595 LOCATED IN SURREY DOCKS.
3. ROAD SURFACE:
 - ASPHALT
 SIDEWALK SURFACE:
 - CONCRETE
 CROSSING SURFACE:
 - ROAD: ASPHALT WITH PROPER RUBBER FLANGEWAY
 - SIDEWALK: ASPHALT (BOTH SIDES)
 DESIGN VEHICLE:
 -TRACTOR SEMITRAILERS
4. VEHICLE SPEED AND TRAFFIC COUNTS:
 - 50 km/h AND 3000 AADT (2020), 1170 AADT (2022)
5. TRAIN SPEED AND TRAFFIC COUNTS:
 -10 mph AND 3 FREIGHTS/DAY



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 CONSTRUCTION**
 April 29, 2021



DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TJIA
DATE	2020/12/18
SCALE	1:200
PMV SITE	

GREATER VANCOUVER GATEWAY 2030 FSPL TRANSPORTATION IMPROVEMENTS AFFECTED AT-GRADE RAIL CROSSING VFPA CROSSING #49 (TIMBERLAND WYE CROSSING)			
SIZE	DWG.	R-008	REV.
D			A
			SHEET 8 of 12

Ref.No.	REFERENCE
1	WSP PROJECT NO. 20M-00758-00

No.	Date	REVISION	Dr'n	Ch'd
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT