



GREATER VANCOUVER GATEWAY 2030

PHASE 2

FRASER SURREY PORT LANDS TRANSPORTATION IMPROVEMENTS

30% DESIGN - DRAWING LIST

DRAWING INDEX					
	DRAWING NO.	DRAWING TITLE	REVISION NO.	SHEETS	SHEET RANGE
GENERAL	G-001	COVER SHEET AND DRAWING LIST	A	1	1 OF 2
	G-002	GENERAL NOTES	A	1	2 OF 2
CIVIL	C-001	PROJECT EXTENTS	A	1	1 OF 34
	C-002 TO C-005	PLANS AND PROFILES	A	4	2 TO 5 OF 34
	C-006 TO C-008	ENLARGED PLANS	A	3	6 TO 8 OF 34
	C-009 TO C-010	TYPICAL SECTIONS	A	2	9 TO 10 OF 34
	C-011	CIVIL DETAILS	A	1	11 OF 34
	C-101 TO C-117	LAND IMPACT PLANS	A	17	12 TO 29 OF 34
	C-201	CONSTRUCTION STAGING PLANS	A	1	30 OF 34
	C-301 TO C-304	CONSTRUCTION STAGING PLANS	A	4	30 TO 34 OF 34
	RAIL	R-001	RAIL CROSSING PLAN (OVERALL)	A	1
R-002 TO R-010		RAIL CROSSING PLANS	A	7	2 TO 8 OF 8
STORMWATER & DRAINAGE	D-001	STORMWATER MANAGEMENT PLAN (OVERALL)	A	1	1 OF 5
	D-002 TO D-005	STORMWATER MANAGEMENT PLANS	A	4	2 TO 5 OF 5
UTILITIES	U-001	UTILITY PLAN (OVERALL)	A	1	1 OF 5
	U-002 TO U-005	UTILITIES DESIGNS	A	4	2 TO 5 OF 5
ELECTRICAL	E-0000 TO E-0830	VARIES (SEE ELECTRICAL DRAWING INDEX)	A	24	
		VARIES (SEE ELECTRICAL REFERENCE INDEX)	VARIES	3	



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

**NOT FOR
CONSTRUCTION**
April 21, 2021



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



VANCOUVER FRASER PORT AUTHORITY
ENGINEERING DEPARTMENT

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

GREATER VANCOUVER GATEWAY 2030
FSPL TRANSPORTATION IMPROVEMENTS
COVER SHEET AND DRAWING LIST

SIZE D	DWG. G-001	SHEET 1 of 2	REV. A
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TITLE BLOCK: DL-TE.dwg
 DATE: 2021/04/21 - 3:25pm
 PATH: P:\50-2000\DRS\20M-00758-00 - VFPA FSPL\Technical\01 - General Notes.dwg
 General Notes.dwg
 G-001 to G-002 Cover Sheet & General Notes.dwg

GENERAL NOTES:

- INFORMATION ON EXISTING UTILITIES IS BASED ON RECORD DRAWINGS AND IS APPROXIMATE ONLY. CONTRACTOR TO MAKE BC ONE CALL TO CONFIRM LOCATION OF EXISTING UTILITIES AND PROVE ALL EXISTING UTILITIES AND CONNECTIONS BY TRIAL EXCAVATION PRIOR TO CONSTRUCTION. CONTRACTOR TO ADVISE THE CONTRACT ADMINISTRATOR OF ANY POTENTIAL CONFLICTS MINIMUM 48 HOURS IN ADVANCE OF ANY WORK.
- ALL SURVEY INFORMATION HAS BEEN PROVIDED BY GEOVERRA GEOMATICS TEAM.
- ALL DIMENSIONS ARE IN METRIC UNITS UNLESS NOTED OTHERWISE.
- CONTRACTOR TO MEASURE AND CONFIRM ALL UTILITY OFFSETS IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONTRACT ADMINISTRATOR 48 HOURS IN ADVANCE OF CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY CITY OF SURREY A MINIMUM OF 72 HOURS IN ADVANCE OF ANY REQUIRED UTILITY RELOCATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY LAYOUT DURING CONSTRUCTION, USING BENCHMARK INFORMATION PROVIDED ON CONTRACT DRAWINGS. ALL EXISTING BENCHMARKS/MONUMENTS SHOWN ON THE TITLE/COVER PAGE SHALL BE UNDISTURBED DURING CONSTRUCTION. IF DISTURBED, CONTRACTOR TO HAVE A LICENSED SURVEYOR REINSTATE THE BENCHMARK/MONUMENT.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS PLATINUM EDITION, AND CITY OF SURREY SUPPLEMENTARY SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- PRIOR TO BACKFILLING THE PIPE, ALL INSTALLED AND BEDDED PIPE SHALL BE INSPECTED BY THE CONTRACT ADMINISTRATOR. THE CONTRACTOR SHALL NOTIFY THE CONTRACT ADMINISTRATOR A MINIMUM OF 24 HOURS IN ADVANCE OF ANY SUCH INSPECTIONS. ALL BEDDING, PIPE ZONE AND BACKFILL MATERIAL SHALL CONFORM TO MMCD AND CITY STANDARDS, INCLUDING MEETING SIEVE ANALYSIS AND REQUIRED COMPACTION TESTING.
- EVERY EFFORT TO BE MADE TO SAVE EXISTING LANDSCAPING, VEGETATION AND TREES. CONTRACTOR TO RESTORE SURFACE FEATURES TO ITS ORIGINAL OR BETTER CONDITION AT COMPLETION. TREES AND HEDGES REQUIRING TRIMMING OR REMOVAL SHALL BE CONFIRMED IN THE FIELD BY CITY INSPECTOR PRIOR TO CONSTRUCTION.
- RESTORATION OF PRIVATE DRIVEWAYS AND WALKWAYS IN ROAD R.O.W. TO CONFORM TO CITY SPECIFICATIONS. IN THE EVENT RESTORATION OF DRIVEWAYS, WALKWAYS AND LANDSCAPING IS REQUIRED ON PRIVATE PROPERTY THE PROPERTY OWNER SHALL BE ADVISED IN ADVANCE OF THE REMOVAL AND IF THE OWNER REQUESTS THE REMOVED MATERIAL SHALL BE PLACED IN THE OWNER'S PROPERTY FOR RE-USE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY AND SHALL BE THE "PRIME CONTRACTOR" AS DEFINED BY THE WORKERS COMPENSATION ACT AND REGULATIONS.
- AS BUILT DRAWINGS: CONTRACTOR TO MAINTAIN AS BUILT RECORD OF DRAWINGS ON SITE AT ALL TIMES. UPON COMPLETION OF WORK, CONTRACTOR TO PROVIDE ONE CLEAN SET OF AS BUILT DRAWINGS MARKED CLEARLY "IN RED LINES".
- EXISTING STREET LIGHT SIGNAL DUCTING NOT SHOWN. CONTRACTOR TO LOCATE AND PROTECT AS REQUIRED.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CITY PERMITS FOR WORK WITHIN THE CITY ROAD ALLOWANCE.
- IF REQUIRED DISRUPTION THE CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENTS A MINIMUM OF 48 HOURS PRIOR TO A SCHEDULED AND APPROVED BY CITY/UTILITY AGENCY SERVICE DISRUPTION, INCLUDING ROAD AND DRIVEWAY BLOCKAGES.
- CONTRACTOR TO MAINTAIN ALL SERVICES TO ALL HOUSES, BUILDINGS AND PROPERTIES THROUGH CONSTRUCTION. IF SERVICE SHUT-DOWNS ARE REQUIRED, PRIOR NOTICE AND APPROVAL MUST BE OBTAINED FROM THE CITY AND DURING SUCH SHUT-DOWNS THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND MAINTAINING TEMPORARY SERVICES AND NOTIFYING RESIDENTS. CONTRACTORS TO SUBMIT DETAILED PROCEDURE (FOR TEMPORARY SERVICES) FOR APPROVAL.

SURVEYING NOTES:

- THIS PROJECT IS IN A GROUND COORDINATE SYSTEM. TO TRANSFORM TO GRID (UTM) COORDINATE SYSTEM, ADD 5,000,000 ON NORTHING THEN SCALE ABOUT 0,0 WITH SCALE FACTOR 0.9996030.
- ALL SURVEY METHODOLOGIES ARE RELATED TO A CONTROL NETWORK OF SURVEY POINTS REFERENCED TO THE PROVINCIAL INTEGRATED GOVERNMENT CONTROL MONUMENT (CGM) COORDINATE SYSTEM OF UTM NAD83 (CSRS) 4.0.0.BC.1. GVRD ZONE 10, ELEVATIONS ARE GEODETIC AND REFERENCE TO CVD28GVRD2018.
- PROPERTY BOUNDARIES ARE FROM MUNICIPAL CADASTRAL DATA AND/OR LAND TITLE OFFICE RECORDS. CONTRACTOR TO CONFIRM IRON PINS/PROPERTY BOUNDARIES PRIOR THE START OF WORK.
- CONTRACTOR TO PERFORM OWN SURVEY LAYOUT AND INFORM THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES BETWEEN SITE INVESTIGATION AND THE CONTRACT DOCUMENT/DRAWINGS PRIOR TO ANY CONSTRUCTION WORK.
- THE CONTRACTOR'S SURVEYOR WILL RECORD AND CERTIFY ALL INFORMATION REQUIRED FOR THE CONTRACT ADMINISTRATOR TO PROVIDE A COMPLETE SET OF AS-CONSTRUCTED DRAWINGS INCLUDING CENTERLINE, FOG LINE, LANE LINES, EDGE OF ASPHALT, SIGNS, AND ALL APPURTENANCES, ETC.

TRAFFIC NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR FLAG PERSONS AND SUPPLYING, ERECTING AND MAINTAINING ALL TRAFFIC CONTROL AND SIGNAGE DEVICES DURING ENTIRE LENGTH OF PROJECT. ALL TRAFFIC REGULATIONS MUST ADHERE TO THE CONTRACT SPECIFICATIONS AND TRAFFIC MANAGEMENT PLAN.
- THE CONTRACTOR MUST SUBMIT A TRAFFIC MANAGEMENT PLAN. THE TRAFFIC MANAGEMENT PLAN SHALL INCLUDE DIAGRAMS AND A DESCRIPTION OF THE PROPOSED DETOUR ROUTES TO BE USED FOR EACH SECTION OF THE WORK WHERE PIPE IS IN PROGRESS. THE PLAN SHALL ALSO INCLUDE A DESCRIPTION OF ANY DETOUR OR TRAFFIC INFORMATION SIGNS TO BE ERECTED, AND ALSO THE NUMBER AND LOCATION OF TRAFFIC CONTROL PERSONNEL TO BE UTILIZED FOR EACH CONSTRUCTION PHASE/ROAD SECTION. THE TRAFFIC PLAN MUST BE SUBMITTED TO CITY OF SURREY FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ANY ROAD CLOSURE PERMITS FROM THE CITY. COPIES OF THE PERMITS ARE TO BE PROVIDED TO THE CONTRACT ADMINISTRATOR.
- LOCAL TRAFFIC AND DRIVEWAY ACCESS MUST BE MAINTAINED AT ALL TIMES UNLESS NOTIFIED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL EMERGENCY SERVICES (POLICE, FIRE, AMBULANCE) VEHICLES OF UP-TO-DATE DETOUR ROUTES, ON A DAY-TO-DAY, WEEK-TO-WEEK BASIS AS REQUIRED. A MIN. 48HRS NOTIFICATION MUST BE PROVIDED TO THESE AUTHORITIES PRIOR TO CHANGING DETOUR ROUTES FROM ONE PHASE/SECTION TO ANOTHER.
- RESTORATION OF ALL DRIVEWAYS TO MEET CITY STANDARDS AND REQUIREMENTS, AND SHALL BE COMPLETED TO EXISTING CONDITIONS OR BETTER.
- THE ROBSON ROAD-TIMBERLAND ROAD CORRIDOR IS DESIGNATED AS AN URBAN ARTERIAL UNDIVIDED ROAD.

LIMITATIONS ON OPEN TRENCH AND TEMPORARY RESTORATION:

- ALL TRENCH EXCAVATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH WCB GUIDELINES BY EITHER SLOPING THE EXCAVATION OR USING TEMPORARY SHORING OR TRENCH BOX.
- TRENCHES SHALL BE EXCAVATED ONLY AS FAR IN ADVANCE OF OPEN PIPE LAYING OPERATIONS AS SAFETY, ROAD TRAFFIC AND WEATHER CONDITIONS PERMIT AND IN NO CASE SHALL EXCEED 15m LENGTH UNLESS APPROVED BY CONTRACT ADMINISTRATOR.
- FOLLOWING INSPECTION OF THE PIPE INSTALLATION BY THE CONTRACT ADMINISTRATOR, BACKFILLING SHALL BE CARRIED OUT PROMPTLY BEHIND THE PIPE LAYING OPERATION. AT NO TIME DURING THE INSTALLATION OF A PIPELINE SHALL THERE BE MORE THAN TWO LENGTHS IN THE TRENCH THAT HAVE NOT BEEN BEDDED, BACKFILLED AND COMPACTED TO AT LEAST 300mm ABOVE THE PIPE CROWN.
- AT THE END OF EACH WORKING DAY, THE CONTRACTOR SHALL ENSURE THAT ALL TRENCHES ARE COMPLETELY BACKFILLED. ONLY THAT PORTION OF THE TRENCH ABOVE THE LAST PIPE MAY REMAIN OPEN. ALL OPEN TRENCHES SHALL BE PROPERLY BARRICADED, SIGNED AND LIT WITH WARNING LIGHTS.
- AT THE END OF EACH DAY'S CONSTRUCTION, THE CONTRACTOR MAY TEMPORARILY REPAIR THE DAMAGED PAVEMENT ABOVE THE TRENCH WITH COLD MIX ASPHALT, ASPHALT MILLINGS OR ROAD BASE TO A LEVEL FLUSH WITH THAT OF THE EXISTING PAVEMENT.
- DEPENDING ON TRAFFIC CONDITIONS, THE STANDARD OF MAINTENANCE, WEATHER AND COMPLAINTS RECEIVED, THE TEMPORARY COLD MIX MAY BE LEFT IN PLACE FOR A MAXIMUM PERIOD OF ONE MONTH. AFTER THE ALLOTTED PERIOD, THE CONTRACTOR SHALL REMOVE THE TEMPORARY REPAIR AND EITHER PROCEED WITH PERMANENT RESTORATION OR APPLY A TEMPORARY 50mm THICK HOT MIX ASPHALT PATCH AND MAINTAIN IT UNTIL PERMANENT PAVEMENT RESTORATION IS CARRIED OUT.

ROADWORK:

- THE CONTRACTOR WILL GIVE CONTRACT ADMINSTRATOR AND AUTHORITY HAVING JURISDICTION INSPECTOR 48 HOURS NOTICE PRIOR TO THE SUBGRADE PROOF ROLL, BASE COMPACTION AND PAVING.
- ALL CUTS IN EXISTING ASPHALT REQUIRED FOR TRENCHING SHALL BE VERTICAL UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL CONSTRUCTION WITHIN ROAD R.O.W. MUST CONFORM TO THE CORRESPONDING MUNICIPALITY AND JURISDICTIONAL STANDARDS, INCLUDING TESTING REQUIREMENTS.
- THE CONTRACTOR SHALL RE-GRADE, RE-SHAPE AND RE-COMPACT SUBGRADE TO THE SATISFACTORY OF THE GEOTECHNICAL ENGINEER PRIOR TO PLACE OF PAVEMENT STRUCTURE.
- THE CONTRACTOR SHALL CONSTRUCT/RESTORE THE PAVEMENT STRUCTURE AS SHOWN ON THE DRAWINGS, OR WITH THICKNESSES COMMENSURATE WITH ADJACENT UNDISTURBED SECTIONS OF THE ROADWAY; WHICHEVER IS GREATER.

ENVIRONMENTAL & SEDIMENT/EROSION CONTROL NOTES:

- ALL WORK TO BE IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL ENVIRONMENTAL REQUIREMENTS (BOTH LEGISLATION AND BEST MANAGEMENT PRACTICES/GUIDELINES), INCLUDING ALL ASSOCIATED WORK AND OTHER WORKS NOT SPECIFIED ON THE CONTRACT DRAWINGS BUT AS APPROVED BY THE CONTRACT ADMINISTRATOR.

- CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH ALL MUNICIPAL, PROVINCIAL AND FEDERAL REQUIREMENTS.

- EROSION AND SEDIMENT CONTROLS SHALL ADHERE TO CoS BYLAW AND MUST BE ERECTED PRIOR TO CONSTRUCTION, MAINTAINED DURING CONSTRUCTION AND REMAIN INTACT AFTER CONSTRUCTION UNTIL SURFACE RESTORATION IS FULLY ESTABLISHED TO EXISTING CONDITIONS. REMOVAL OF THE ERECTED WORKS SHALL BE AS APPROVED BY THE CONTRACT ADMINISTRATOR.

- CONTRACTOR TO OBTAIN ALL APPROPRIATE PERMITS AND AUTHORIZATIONS FROM ALL REGULATORY AGENCIES PROPER TO PROCEEDING WITH CONSTRUCTION.

- PROVIDE TEMPORARY DRAINAGE, AND GRADING AS REQUIRED IN AND AROUND THE SITE TO PROTECT THE EXCAVATION AND WORK AREA DURING CONSTRUCTION. TEMPORARY DRAINAGE ROUTES SHALL NOT BE LOCATED ON PRIVATE PROPERTY, NOR SHALL THEY DIRECTLY OR INDIRECTLY IMPACT PRIVATE PROPERTY. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE FROM INADEQUATE DRAINAGE/PROTECTION. THE DISCHARGE OF ANY SUCH TEMPORARY WORKS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ENVIRONMENTAL, SEDIMENT AND EROSION CONTROL NOTES.

- THE CONTRACTOR SHALL TAKE ALL THE STEPS NECESSARY TO ENSURE THAT NO SILT IS DISCHARGED TO THE STORM DRAINAGE SYSTEM, ROADWAYS OR ADJACENT PROPERTIES DURING THE COURSE OF CONSTRUCTION IN ACCORDANCE WITH DFO/MOELP'S "LAND DEVELOPMENT GUIDELINES FOR THE PROTECTION OF AQUATIC HABITAT".

- THE CONTRACTOR SHALL CLEAN OUT THE SEDIMENT TRAP ON A REGULAR BASIS TO ENSURE DEPTH OF SEDIMENT ACCUMULATION DOES NOT EXCEED 0.3m.

- SILT SACS MUST BE INSTALLED, MONITORED AND REPLACED AT ALL CATCHBASINS AFFECTED BY CONSTRUCTION.

- ALL ON SITE SURFACE RUN-OFF IS TO BE DIRECTED TO THE SEDIMENT POND AND THEN DISCHARGED TO THE STORM SEWER. NO SURFACE RUN-OFF IS TO EXIT THE SITE BOUNDARIES UNLESS ROUTED THROUGH THE FILTRATION SYSTEM.

- THE CONTRACTOR WILL NOT PERMIT THE DIRECT OR INDIRECT DISCHARGE, FROM ANY PROPERTY, OF WATER THAT DOES NOT AT ALL TIMES MEET OR EXCEED THE REQUIREMENTS OF MUNICIPAL OR PROVINCIAL GUIDELINES OR BYLAWS.

- ALL CONCRETE SUPPLY TRUCKS SHALL BE EQUIPPED WITH WASH BUCKET SYSTEM FOR FLUSHING OF FLUME. UNDER NO CIRCUMSTANCES SHALL EXCESS CONCRETE FROM FLUME AND/OR TRUCK BE FLUSHED ONTO ROADS OR INTO STORM SEWER SYSTEMS.

- DECOMMISSION ALL SEDIMENT CONTROL SYSTEMS ONLY AFTER HARD SURFACED ARE IN PLACE AND SURFACE WATER SUITABILITY DIRECTED TO THE STORM WATER SYSTEM. ALL SEDIMENT TO BE REMOVED OFF SITE. ANY REQUIRED PERMITS TO BE ACQUIRED BY THE CONTRACTOR PRIOR TO DECOMMISSIONING.

- RETAINING DESIGNATED TREES IS OF PRIME IMPORTANCE. WHEN WORKING IN PROXIMITY TO A DESIGNATED TREE OR WHEN ROOTS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONSULT THE AUTHORITY HAVING JURISDICTION'S ENVIRONMENTAL PROTECTION OFFICER BEFORE PROCEEDING TO PREVENT DAMAGE TO TREES.

SIGNING AND PAVEMENT MARKING:

- ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM TO LATEST EDITION OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC). PAVEMENT MARKINGS SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH SECTION 32 17 23 OF THE PLATINUM EDITION OF THE MMCD.

- EXISTING CONFLICTING SIGNS AND MARKINGS TO BE REMOVED.

- HOLLOW ARROWS ARE FOR INFORMATION ONLY. NOT TO BE PAINTED.

- ALL STOP BARS, DIRECTIONAL ARROWS, CROSSWALKS, LANE MARKINGS AND STENCILS SHALL BE THERMOPLASTIC MATERIAL, UNLESS NOTED OTHERWISE.

- THE CONTRACTOR SHALL CONFIRM THE CONDITION OF ALL EXISTING SIGNS THAT ARE NOTED TO BE REUSED OR RELOCATED.

- DESIGN AND INSTALLATION DETAILS FOR ALL SIGNAGE INCLUDING SIGN POSTS AND BASES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE BC MOTI. ANY SIGN SUPPORTS WITHIN CLEAR ZONES SHALL HAVE BREAKAWAY SUPPORTS.

- ANY CUSTOM SIGNS ARE SUBJECT TO OWNER APPROVAL. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND SUPPLY.

UTILITIES GENERAL:

- INFORMATION ON EXISTING UTILITIES AND OTHER INFRASTRUCTURE IS A COMPOSITE OBTAINED FROM RECORD DRAWINGS, BC ONE CALL AND TOPOGRAPHICAL SURVEY AND MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO MAKE BC ONE CALL TO CONFIRM LOCATION OF EXISTING UTILITIES AND PROVE ALL EXISTING UTILITIES AND CONNECTION BY TRIAL EXCAVATION PRIOR TO CONSTRUCTION. CONTRACTOR TO ADVISE THE CONTRACT ADMINISTRATOR OF ANY POTENTIAL CONFLICTS MINIMUM 48 HOURS IN ADVANCE OF ANY WORK.

- ANY EXISTING UTILITIES THAT ARE TO REMAIN THAT ARE DISCOVERED TO BE IN CONFLICT WITH NEW CONSTRUCTION SHALL BE RELOCATED ON A CASE BY CASE BASIS WITH APPROVAL BY JURISDICTIONS AND CONTRACT ADMINISTRATOR.

- THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS, IF REQUIRED, FOR THE INSPECTION OF ALL UTILITY.

STORM:

- WITHIN ROAD R.O.W. ALL STORM SEWERS, CATCH BASINS AND CATCH BASIN LEADS SHALL BE AS PER MMCD AND CITY OF SURREY STANDARDS, UNLESS NOTED OTHERWISE ON DRAWINGS.

- TESTING AND ACCEPTANCE OF SEWERS TO BE PERFORMED IN THE PRESENCE OF AUTHORITY INSPECTOR AND CONTRACT ADMINISTRATOR 48 HOURS PRIOR NOTICE REQUIRED.

- FINAL LOCATION OF NEW CATCH BASIN TO BE CONFIRMED BY CONTRACT ADMINISTRATOR.

- NEW LEAD IS REQUIRED AT RELOCATED CATCH BASINS UNLESS A STRAIGHT LINE ALIGNMENT IS MAINTAINED TO THE NEW LOCATION WITHOUT INSTALLING BEND(S).

- CATCH BASIN LEADS AND STORM MAINS TO BE INSPECTED WITH CCTV.

- PRIOR TO BACKFILLING THE PIPE, ALL INSTALLED AND BEDDED PIPE SHALL BE INSPECTED BY THE CONTRACTOR ADMINISTRATOR. THE CONTRACTOR SHALL NOTIFY THE CONTRACT ADMINISTRATOR A MINIMUM OF 24 HOURS IN ADVANCE OF ANY SUCH INSPECTION. ALL BEDDING, PIPE ZONE AND BACKFILL MATERIAL SHALL CONFORM TO MMCD AND CITY STANDARDS, INCLUDING MEETING SIEVE ANALYSIS AND REQUIRED COMPACTION TESTING.

- THE MATERIAL FOR THE GRAVITY SEWER TO BE SDR35 PVC PIPE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

- MAXIMUM PIPE DEFLECTION AT EACH JOINT SHALL NOT EXCEED ONE-HALF OF THE MANUFACTURER'S SPECIFICATION.

**NOT FOR
CONSTRUCTION**
 April 21, 2021



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

GREATER VANCOUVER GATEWAY 2030
 FSPL TRANSPORTATION IMPROVEMENTS
 GENERAL NOTES

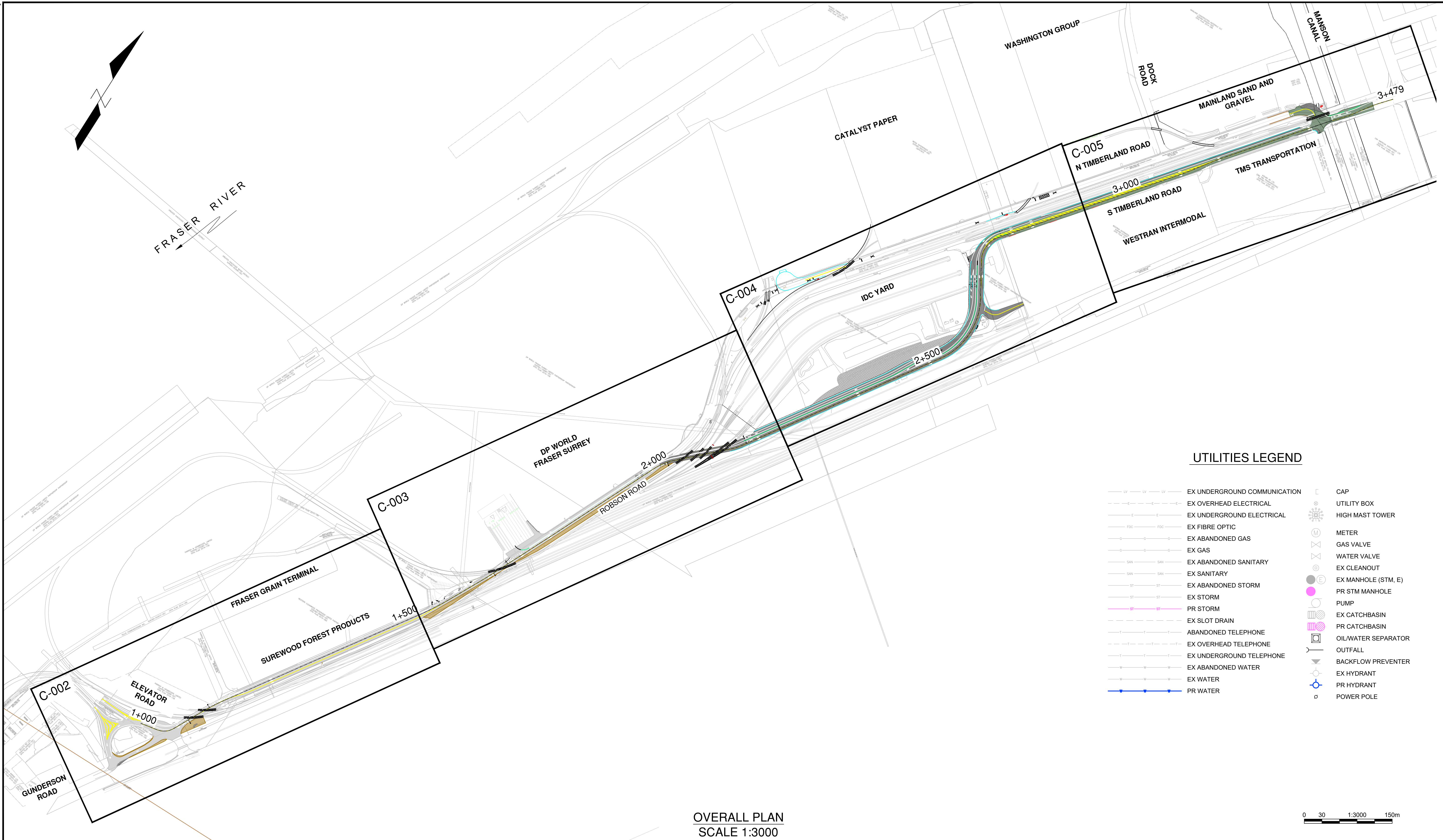
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VANCOUVER FRASER PORT AUTHORITY
 ENGINEERING DEPARTMENT

SHEET	2 of 2	REV.	A
SIZE	D	DWG.	G-002

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UTILITIES LEGEND

	EX UNDERGROUND COMMUNICATION		CAP
	EX OVERHEAD ELECTRICAL		UTILITY BOX
	EX UNDERGROUND ELECTRICAL		HIGH MAST TOWER
	EX FIBRE OPTIC		METER
	EX ABANDONED GAS		GAS VALVE
	EX GAS		WATER VALVE
	EX ABANDONED SANITARY		EX CLEANOUT
	EX SANITARY		EX MANHOLE (STM. E)
	EX ABANDONED STORM		PR STM MANHOLE
	EX STORM		PUMP
	PR STORM		EX CATCHBASIN
	EX SLOT DRAIN		PR CATCHBASIN
	ABANDONED TELEPHONE		OIL/WATER SEPARATOR
	EX OVERHEAD TELEPHONE		OUTFALL
	EX UNDERGROUND TELEPHONE		BACKFLOW PREVENTER
	EX ABANDONED WATER		EX HYDRANT
	EX WATER		PR HYDRANT
	PR WATER		POWER POLE

OVERALL PLAN
SCALE 1:3000

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No.	Date	REVISION	Dr'n	Ch'd
C	2021/04/23	REVISED FOR PER SUBMISSION	IL	VT
B	2021/01/07	ISSUED FOR METRO VANCOUVER	KY	VT
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT

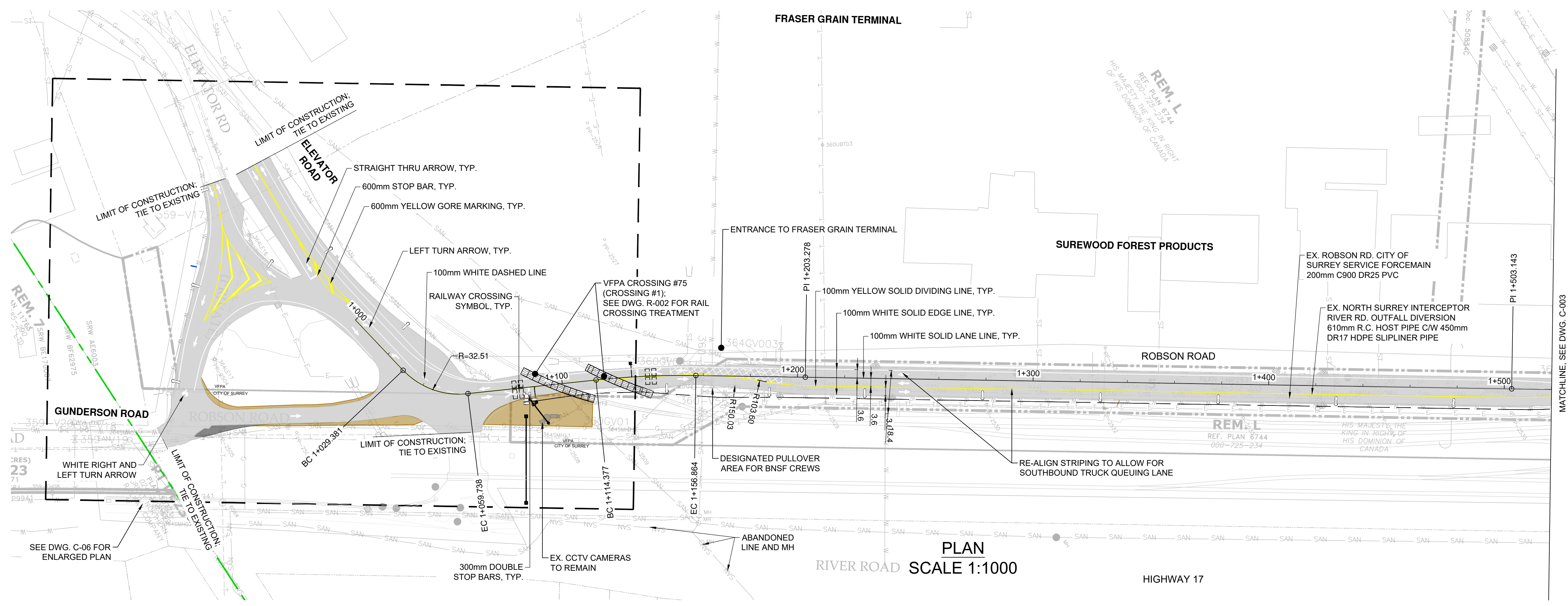


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APPROVED	V. TJIA
DATE	2021/04/23
SCALE	1:3000
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GREATER VANCOUVER GATEWAY 2030
FSPL TRANSPORTATION IMPROVEMENTS
PROJECT EXTENTS

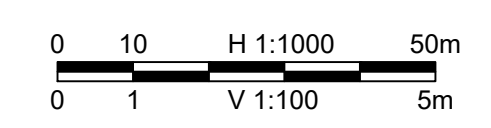
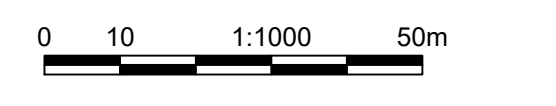
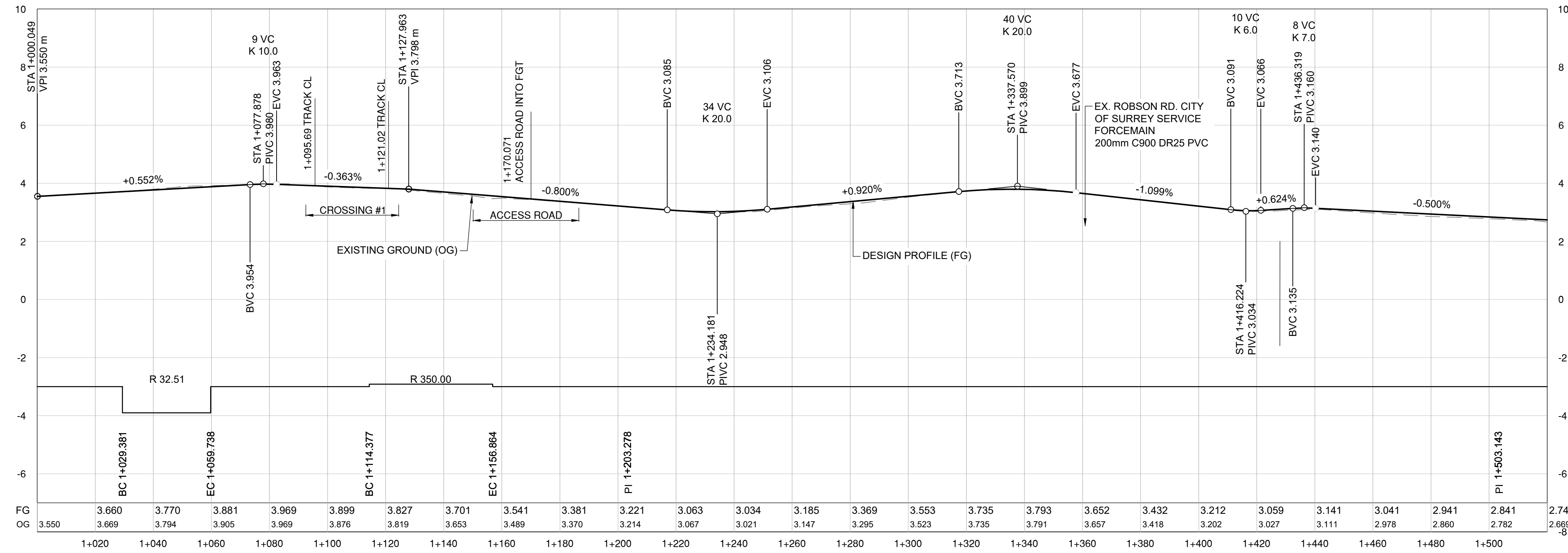
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LEGEND

MILL & OVERLAY	
NEW PAVEMENT	
PAVEMENT REANIMATION AT TIMBERLAND ROAD SOUTH	
REGRADE EX. GRAVEL	
GRAVEL AREA	
CONCRETE ROADSIDE BARRIER	
FENCING	
CURB & GUTTER	
PROPERTY LINE	
LICENSE/EASEMENT LINE	



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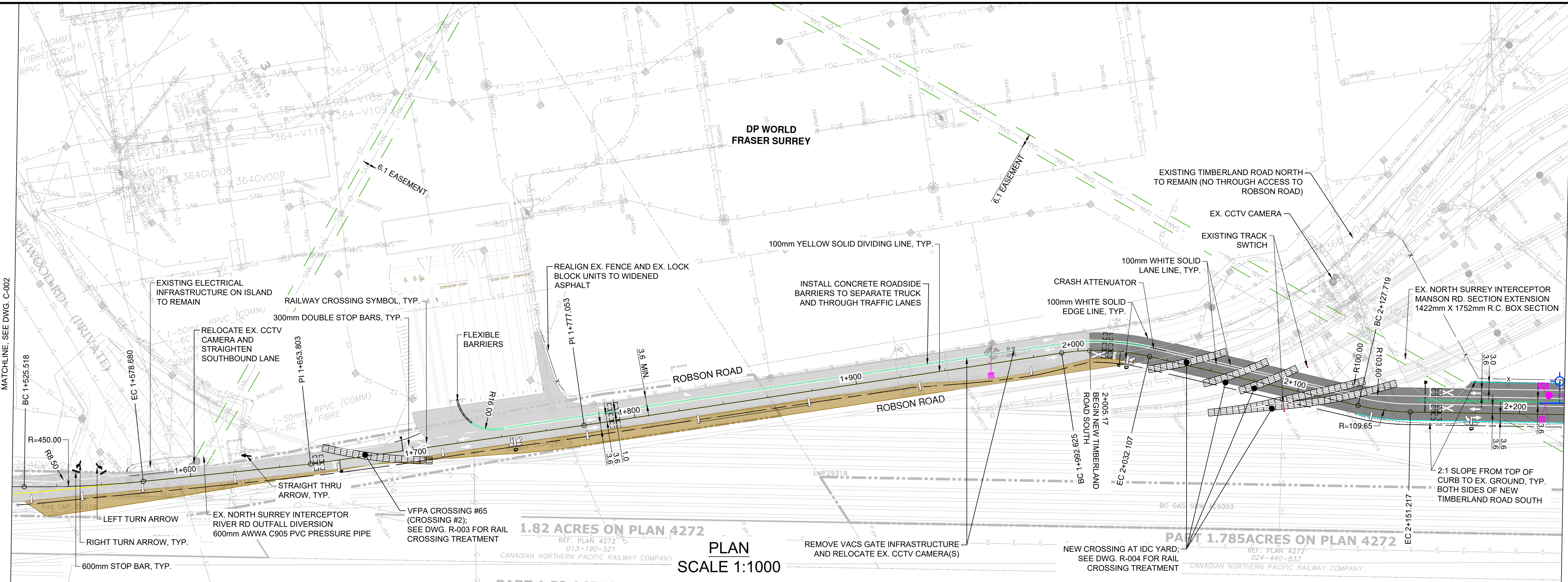
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APPROVED	V. TJIA
DATE	2021/01/07
SCALE	1:1000
PMV SITE	----

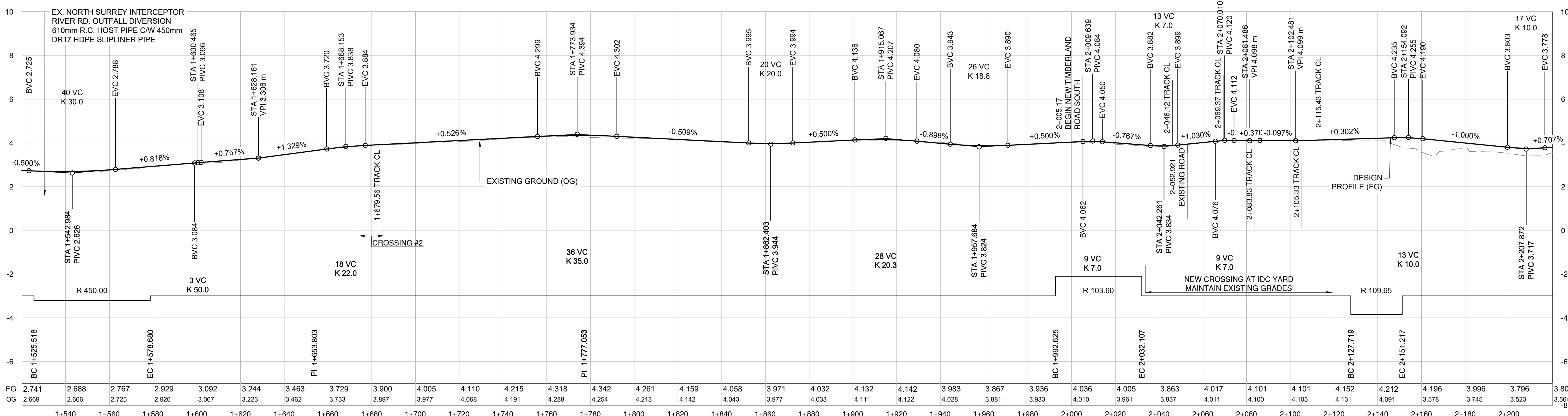
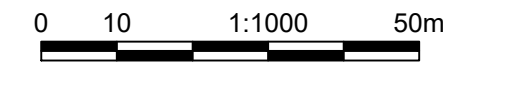
GREATER VANCOUVER GATEWAY 2030 FSPL TRANSPORTATION IMPROVEMENTS PLAN & PROFILE STA. 1+000.000 TO STA. 1+520.000	
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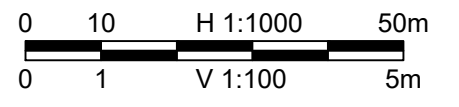


LEGEND

MILL & OVERLAY	
NEW PAVEMENT	
PAVEMENT REANIMATION AT TIMBERLAND ROAD SOUTH	
REGRADE EX. GRAVEL	
GRAVEL AREA	
CONCRETE ROADSIDE BARRIER	
FENCING	
CURB & GUTTER	
PROPERTY LINE	
LICENSE/EASEMENT LINE	



PROFILE
 SCALE H 1:1000
 V 1:100



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B	2021/01/07	ISSUED FOR METRO VANCOUVER	KY	VT
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT



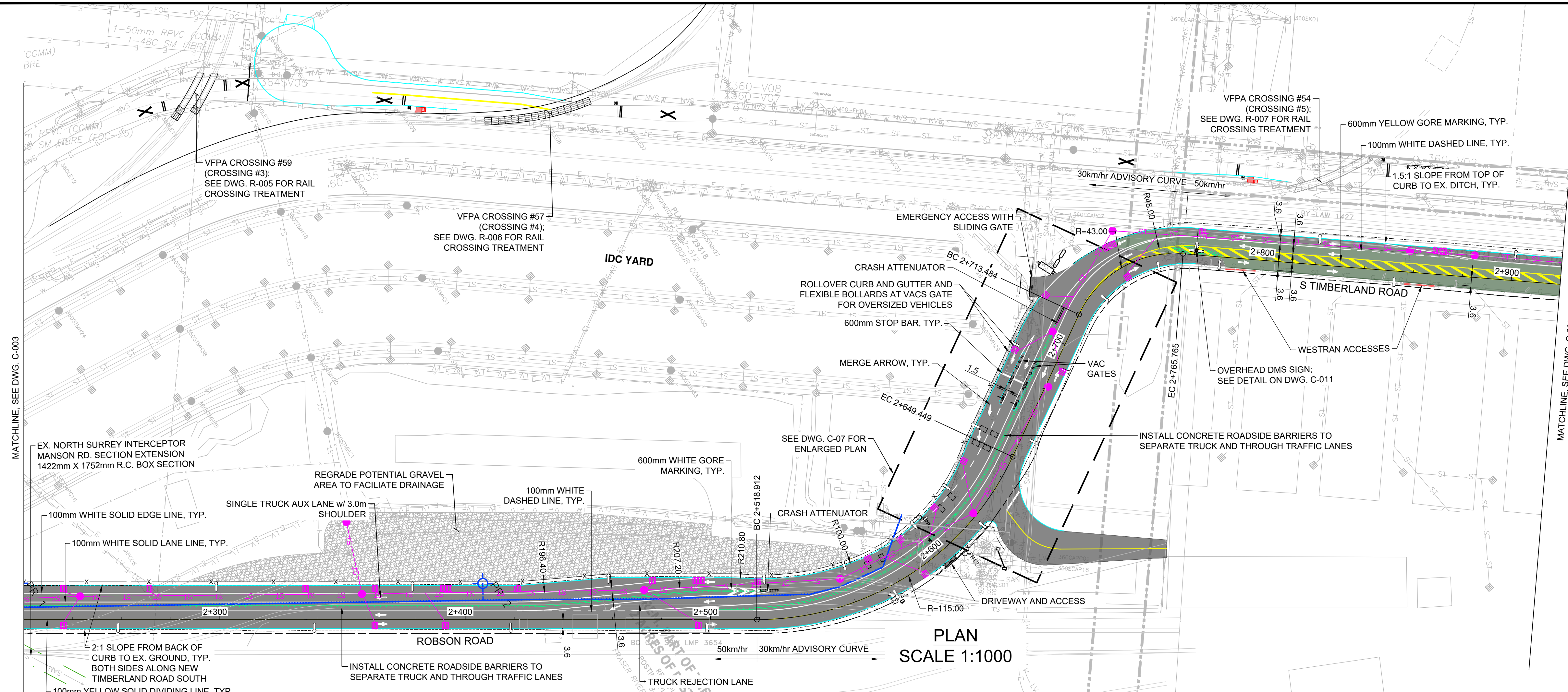
DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TJUA
DATE	2021/04/23
SCALE	1:1000
PMV SITE	----

**GREATER VANCOUVER GATEWAY 2030
 FSPL TRANSPORTATION IMPROVEMENTS
 PLAN & PROFILE
 STA. 1+520.000 TO STA. 2+220.000**

C-003

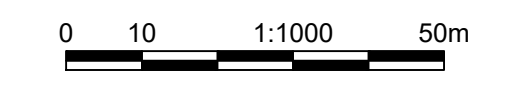
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1	WSP PROJECT NO. 20M-00758-00

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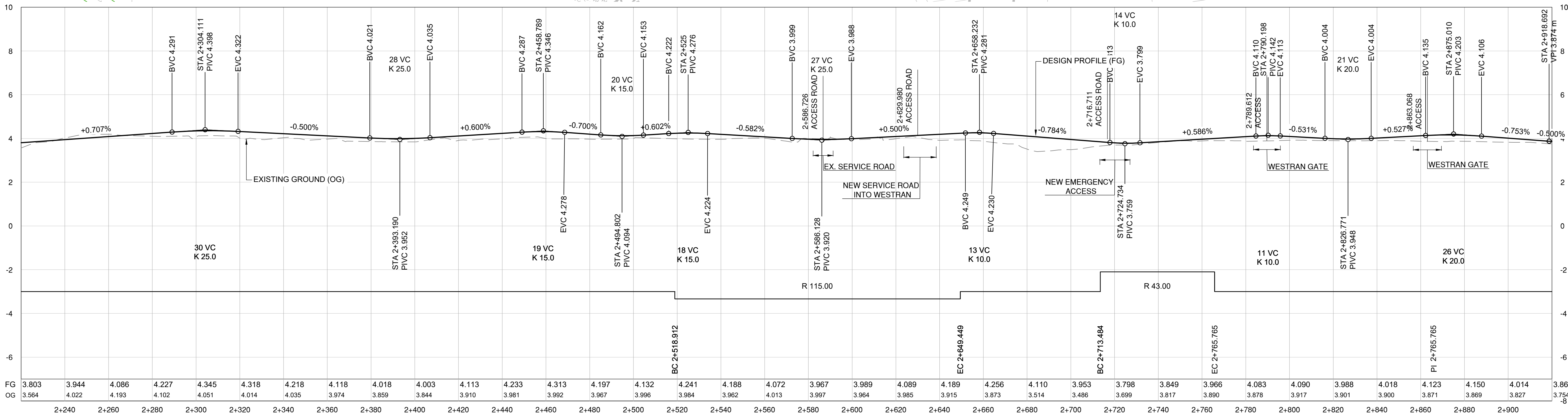


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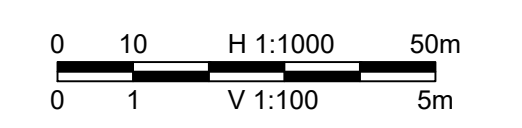
- MILL & OVERLAY
- NEW PAVEMENT
- PAVEMENT REANIMATION AT TIMBERLAND ROAD SOUTH
- REGRADE EX. GRAVEL
- GRAVEL AREA
- CONCRETE ROADSIDE BARRIER
- FENCING
- CURB & GUTTER
- PROPERTY LINE
- LICENSE/EASEMENT LINE



PLAN
SCALE 1:1000



PROFILE
SCALE H 1:1000
V 1:100



**NOT FOR
CONSTRUCTION**
April 29, 2021



No.	Date	REVISION	Dr'n	Ch'd
C	2021/04/23	REVISED FOR PER SUBMISSION	IL	VT
B	2021/01/07	ISSUED FOR METRO VANCOUVER	KY	VT
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT

**PORT of
vancouver**

VANCOUVER FRASER PORT AUTHORITY
ENGINEERING DEPARTMENT

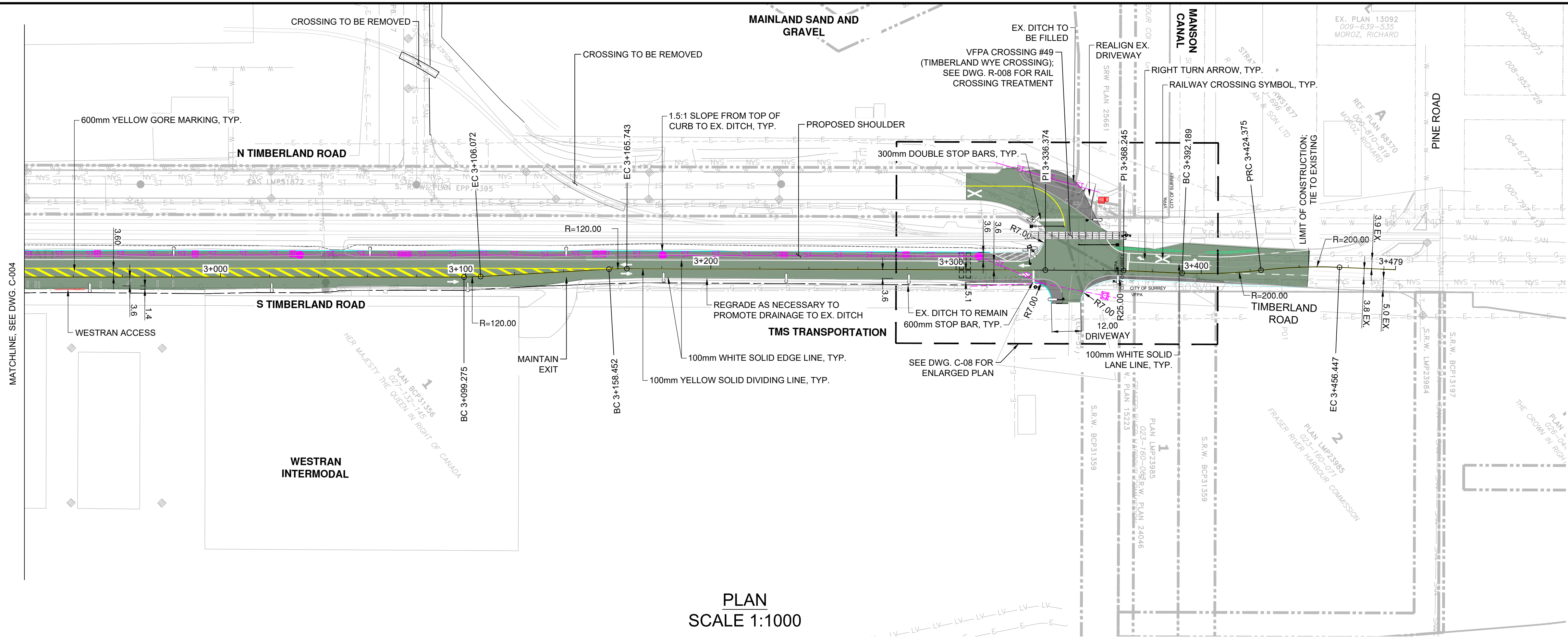
DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TJIA
DATE	2021/04/23
SCALE	1:1000
PMV SITE	----

**GREATER VANCOUVER GATEWAY 2030
FSPL TRANSPORTATION IMPROVEMENTS
PLAN & PROFILE
STA. 2+220.000 TO STA. 2+920.000**

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

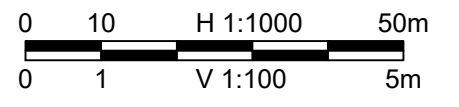
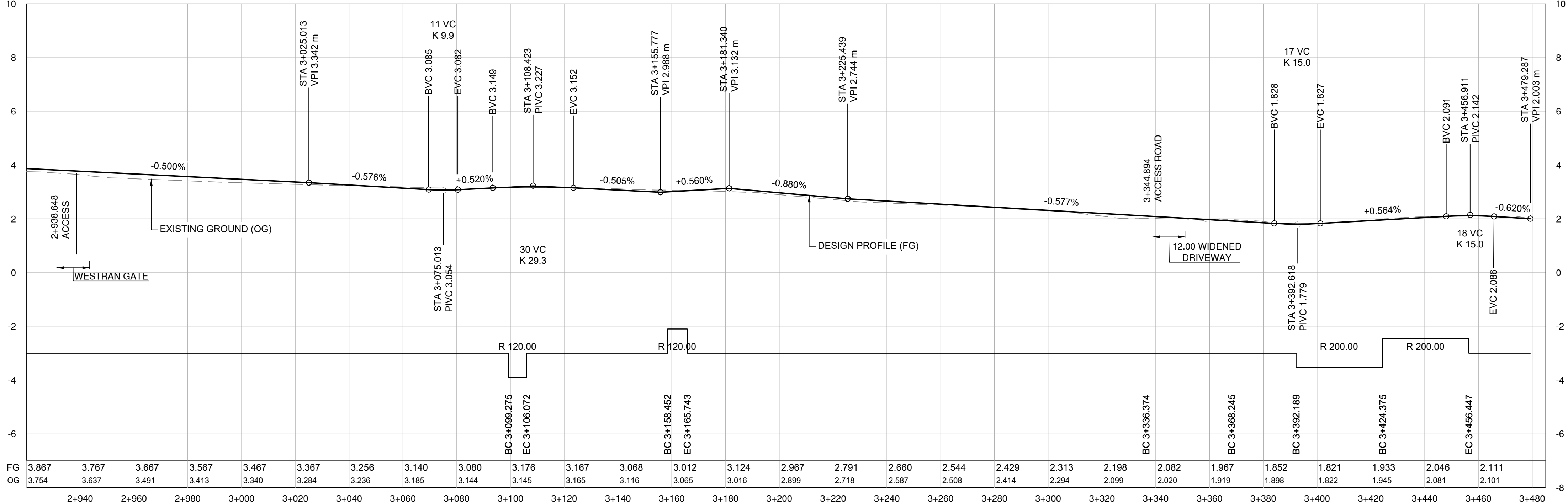
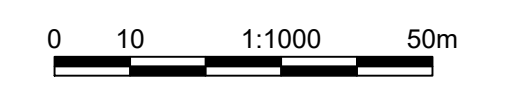
SIZE	DWG.	C-004	SHEET	4 of 34	REV.	C
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PAVEMENT REANIMATION AT TIMBERLAND ROAD SOUTH	[Symbol]
REGRADE EX. GRAVEL	[Symbol]
GRAVEL AREA	[Symbol]
CONCRETE ROADSIDE BARRIER	[Symbol]
FENCING	[Symbol]
CURB & GUTTER	[Symbol]
PROPERTY LINE	[Symbol]
LICENSE/EASEMENT LINE	[Symbol]



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 April 29, 2021



DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TJAJA
DATE	2021/01/07
SCALE	1:1000
PMV SITE	----

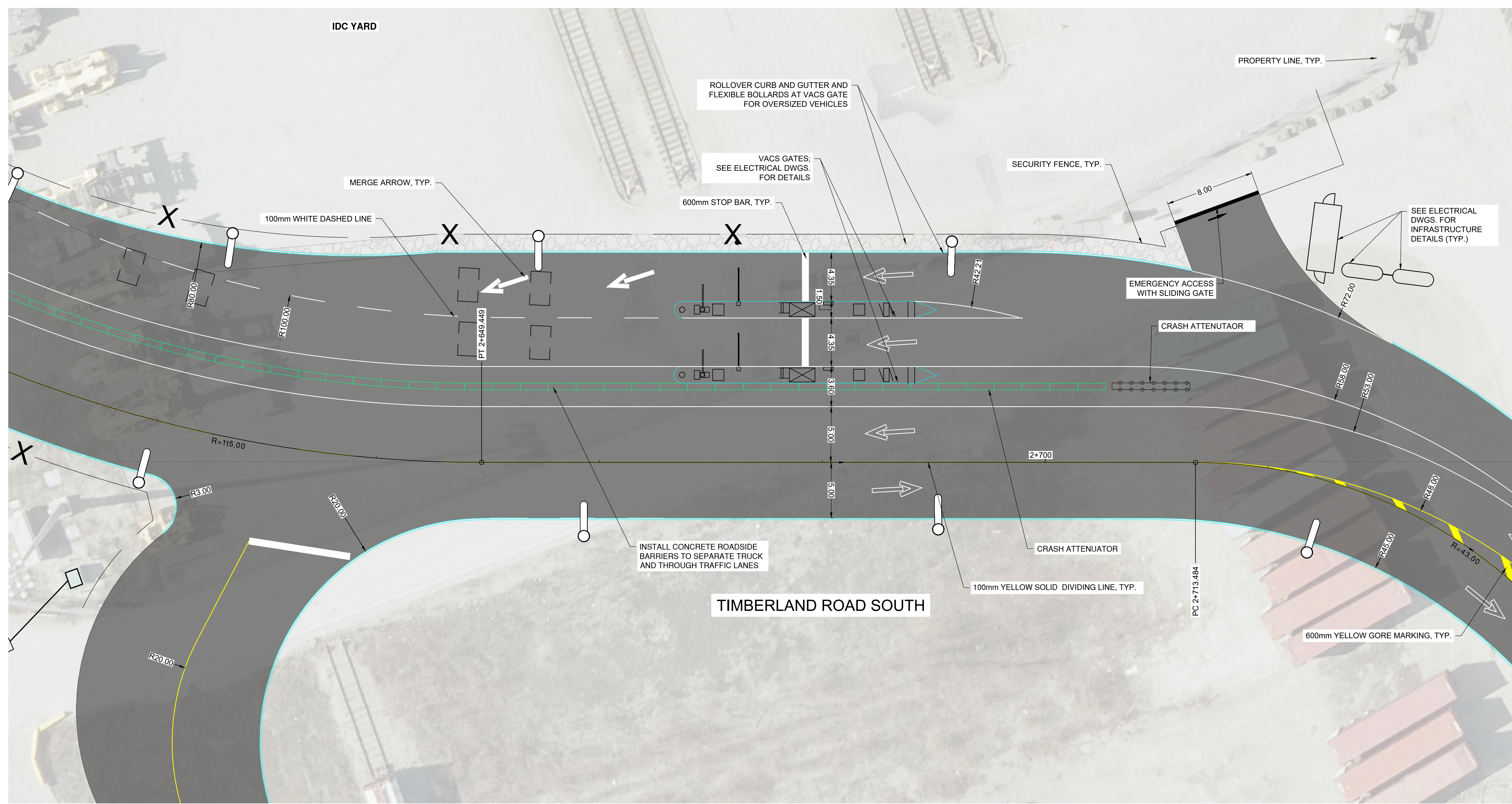
GREATER VANCOUVER GATEWAY 2030
 FSPL TRANSPORTATION IMPROVEMENTS
 PLAN & PROFILE
 STA. 2+920.000 TO STA. 3+479.410

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

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

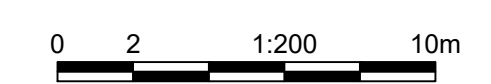
VANCOUVER FRASER PORT AUTHORITY
 ENGINEERING DEPARTMENT

SIZE	DWG.	C-005	SHEET	5 of 34	REV.	B
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LEGEND	
MILL & OVERLAY	
NEW PAVEMENT	
PAVEMENT REANIMATION AT TIMBERLAND ROAD SOUTH	
REGRADE EX. GRAVEL	
GRAVEL AREA	
CONCRETE ROADSIDE BARRIER	
FENCING	
CURB & GUTTER	
PROPERTY LINE	

ENLARGED PLAN
 SCALE 1:200



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
 ENLARGED PLAN
 VAC GATES

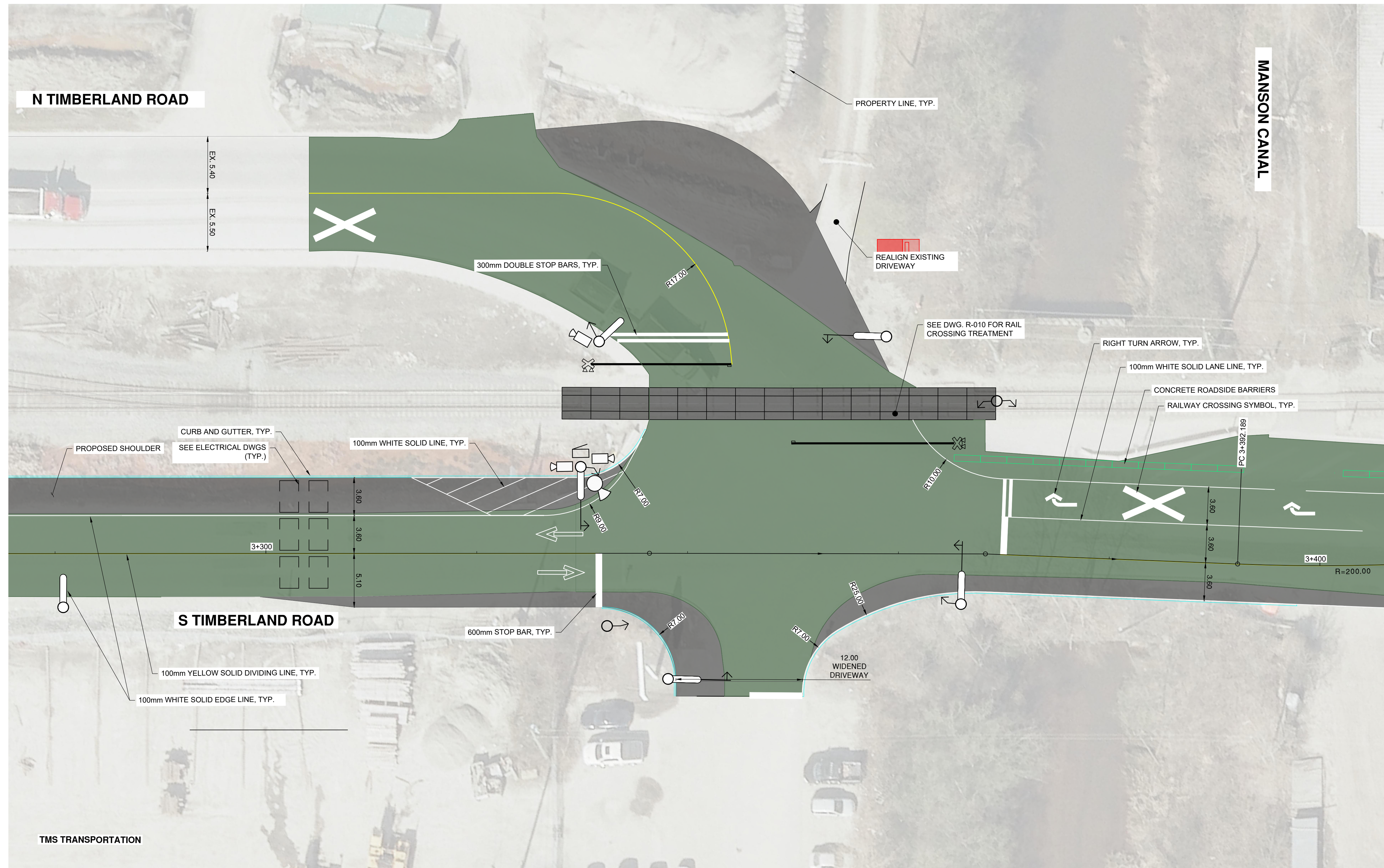
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1	WSP PROJECT NO. 20M-00758-00

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

VANCOUVER FRASER PORT AUTHORITY
 ENGINEERING DEPARTMENT

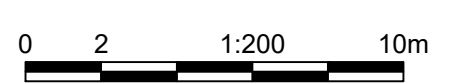
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LEGEND	
MILL & OVERLAY	
NEW PAVEMENT	
PAVEMENT REANIMATION AT TIMBERLAND ROAD SOUTH	
REGRADE EX. GRAVEL	
GRAVEL AREA	
CONCRETE ROADSIDE BARRIER	
FENCING	
CURB & GUTTER	
PROPERTY LINE	

ENLARGED PLAN
SCALE 1:200



**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
 ENLARGED PLAN
 TIMBERLAND ROAD WYE INTERSECTION

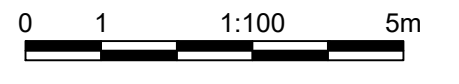
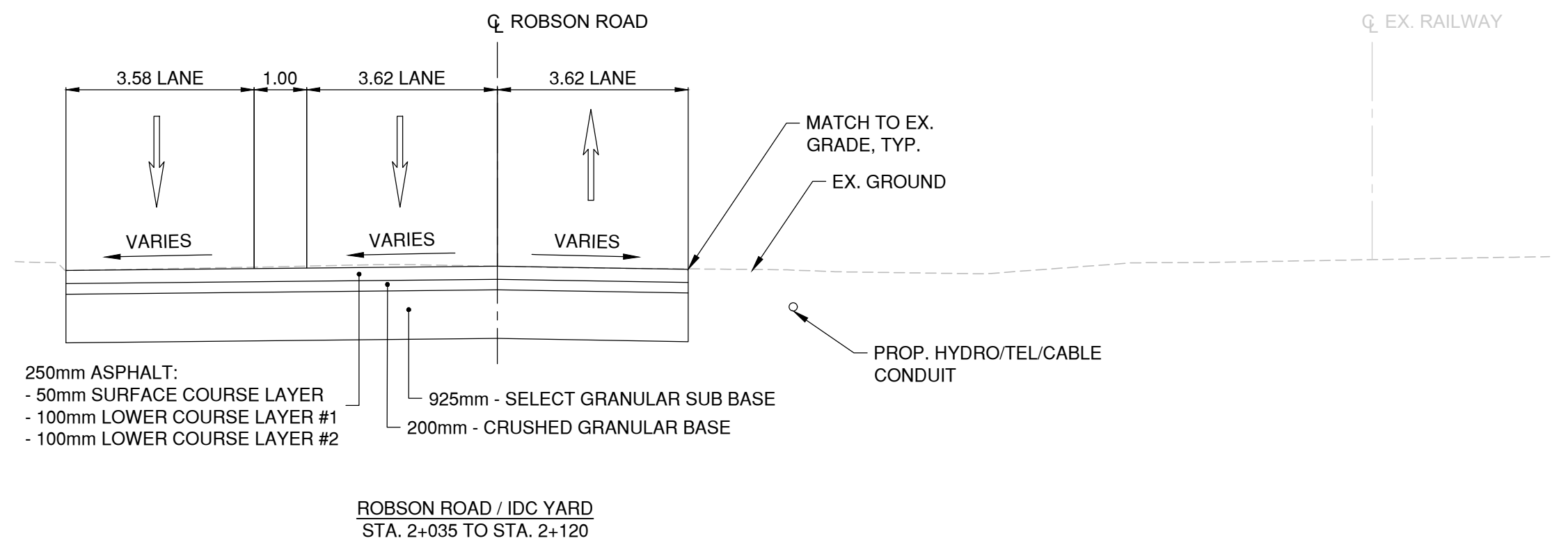
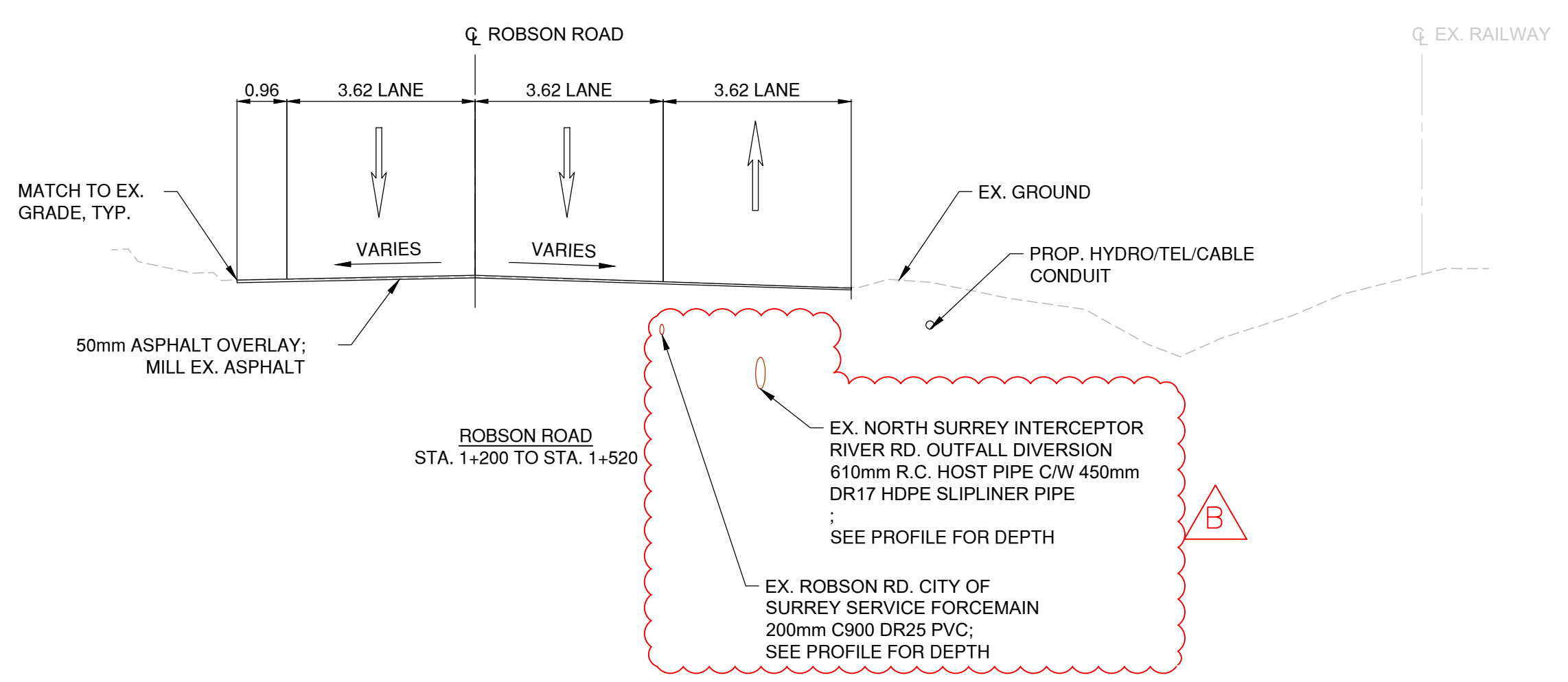
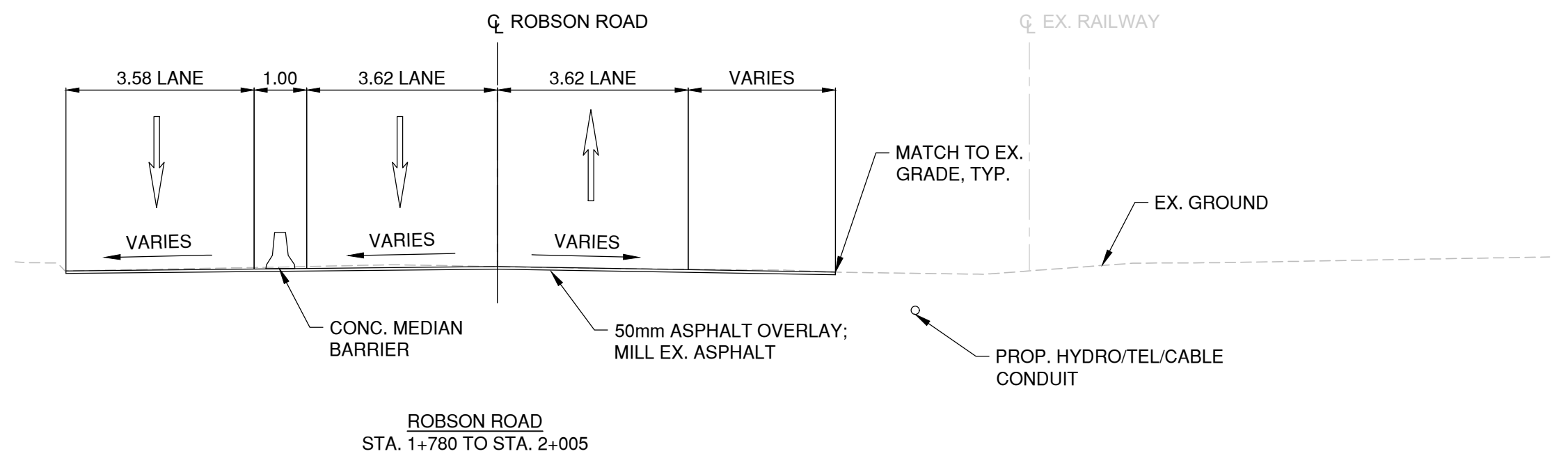
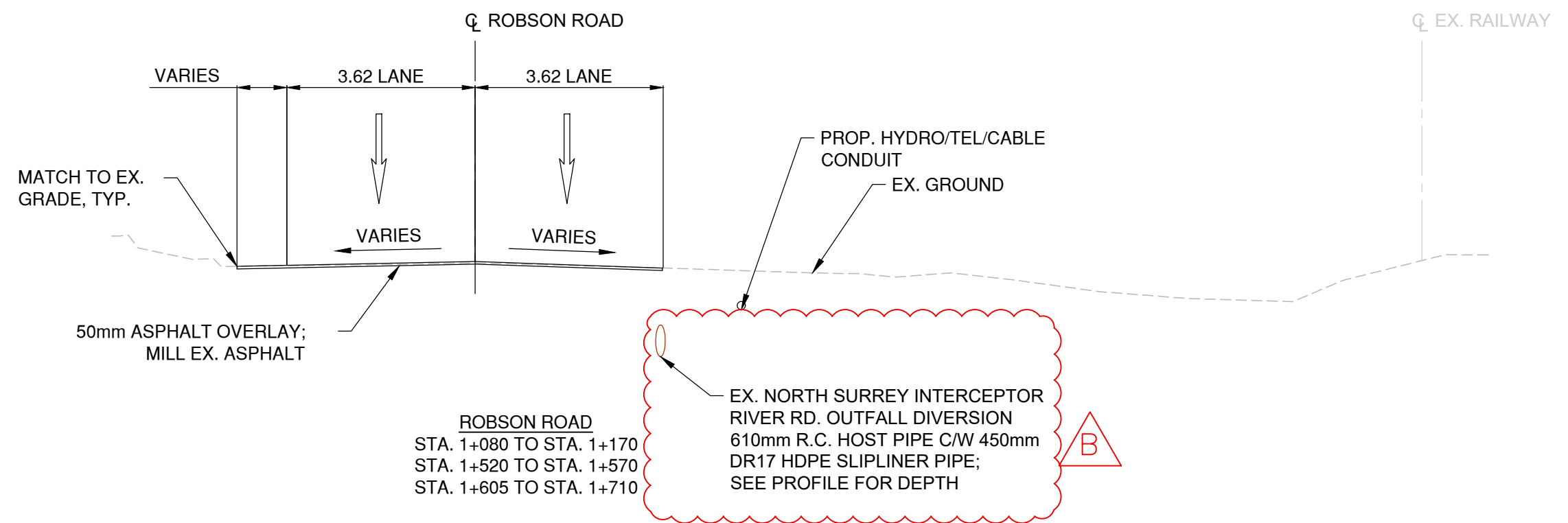
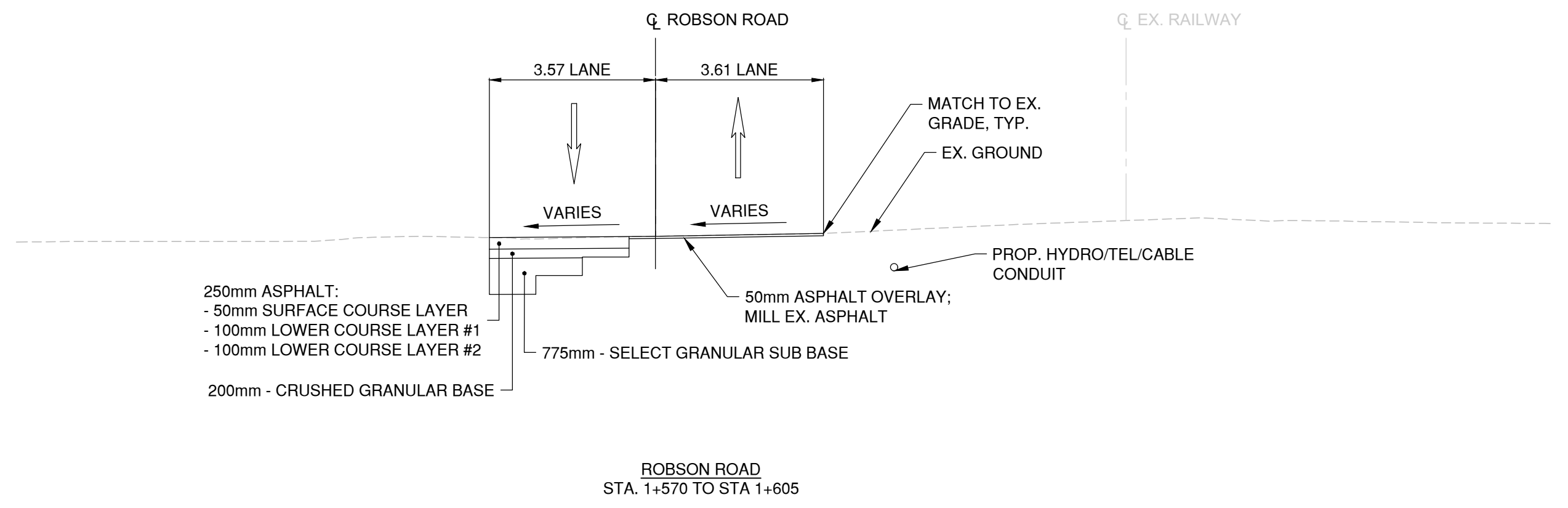
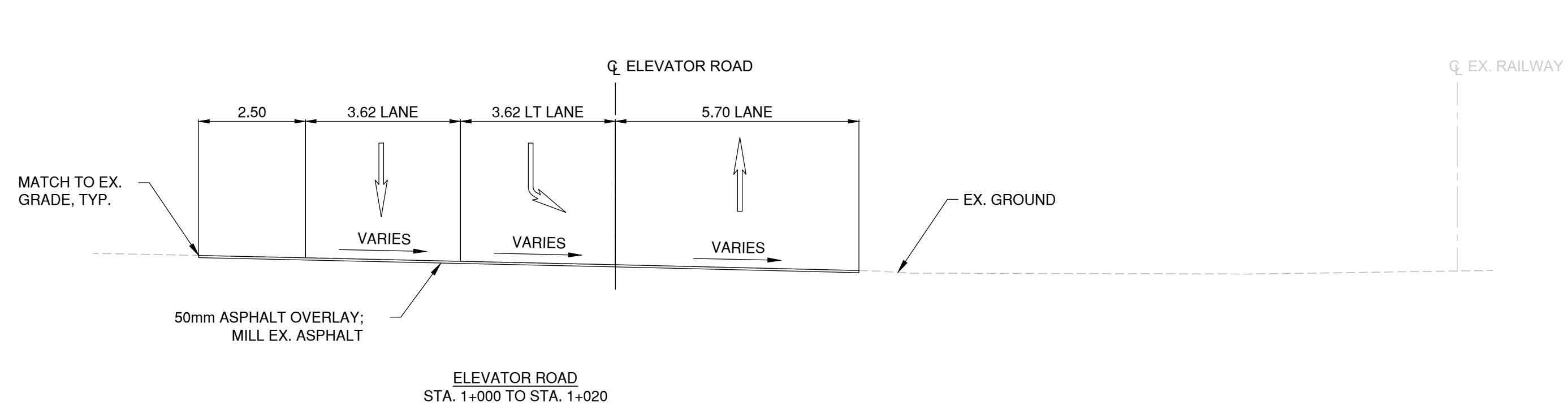
Ref.No.	REFERENCE
1	WSP PROJECT NO. 20M-00758-00

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

VANCOUVER FRASER PORT AUTHORITY
ENGINEERING DEPARTMENT

SIZE	DWG.	C-008	SHEET	8 of 34	REV.	A
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DATE: 2021/04/29 - 8:55am
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NOT FOR CONSTRUCTION
 April 29, 2021



No.	Date	REVISION	Dr'n	Ch'd
B	2021/01/07	ISSUED FOR METRO VANCOUVER	KY	VT
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT

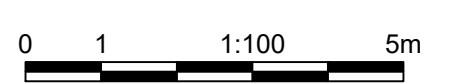
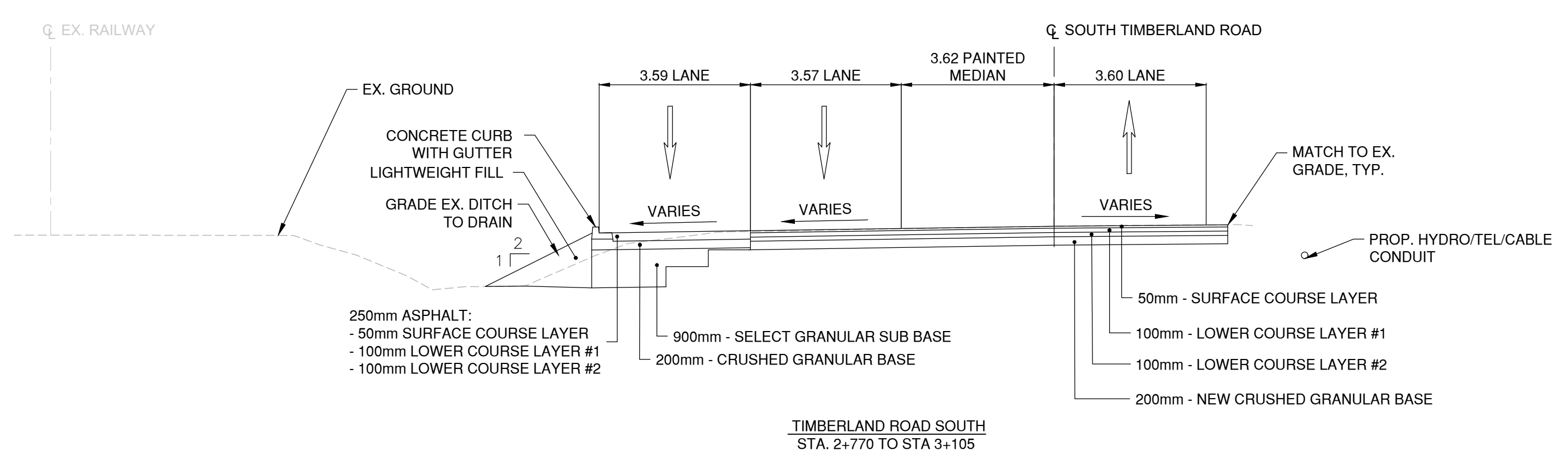
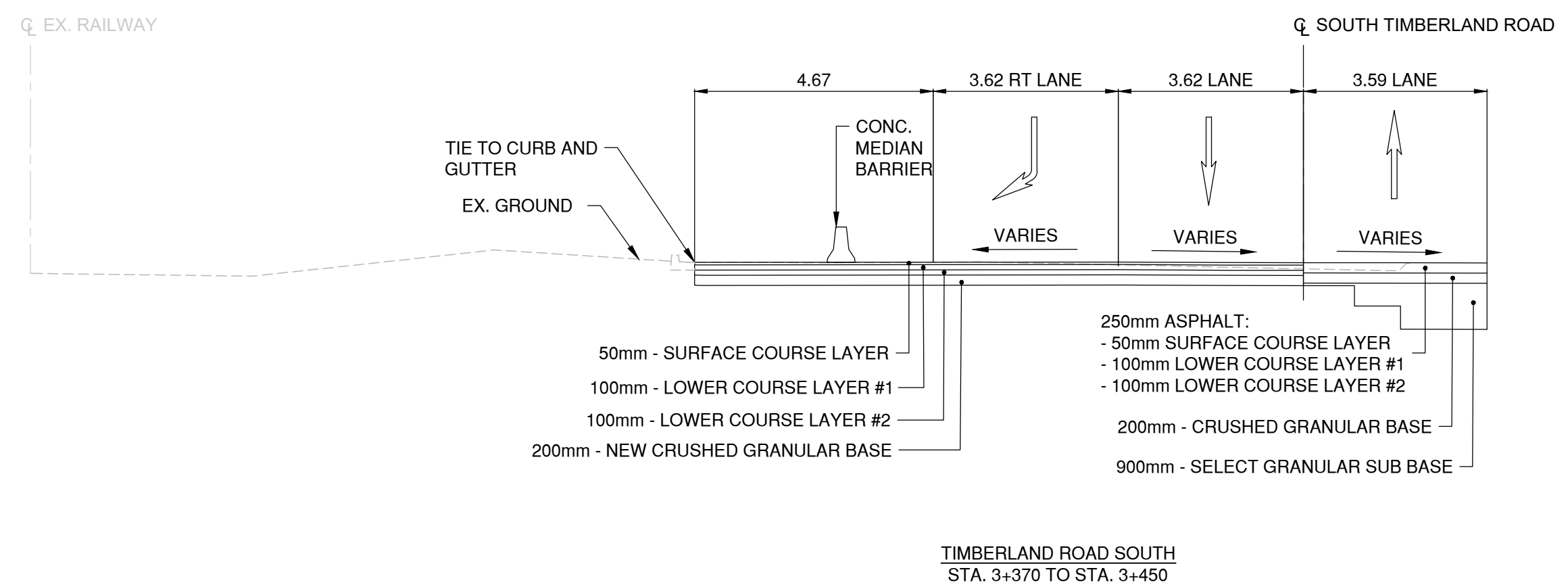
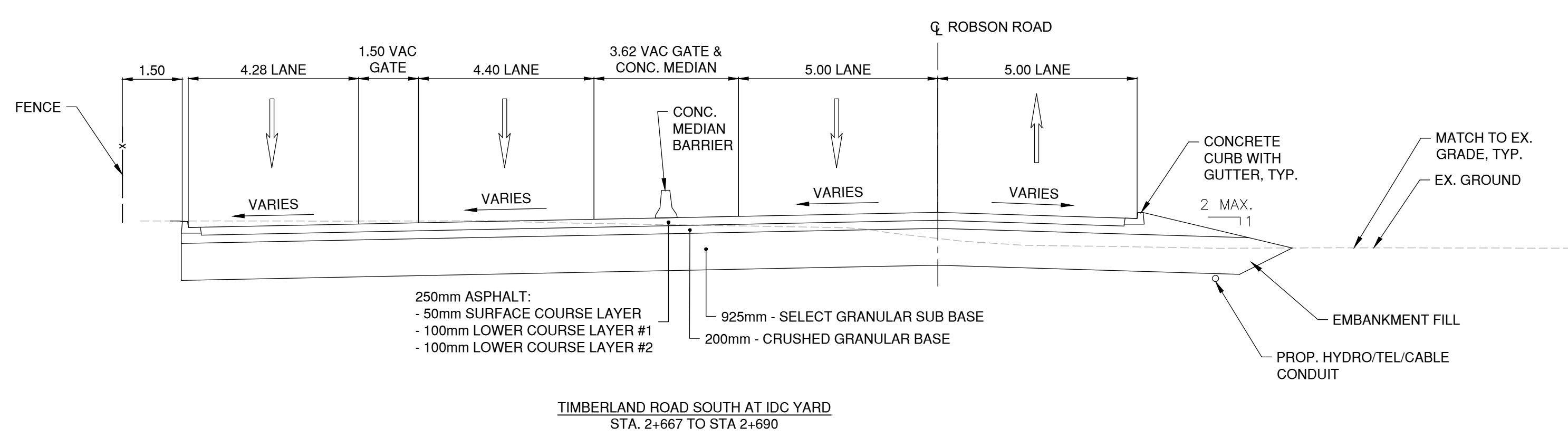
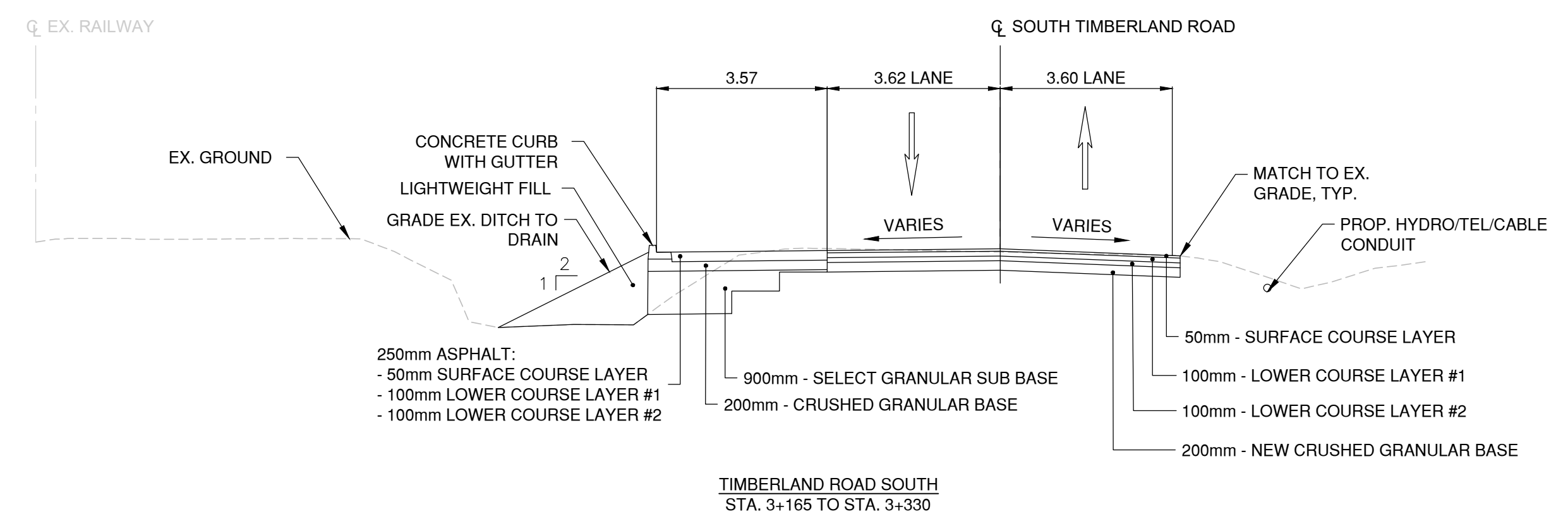
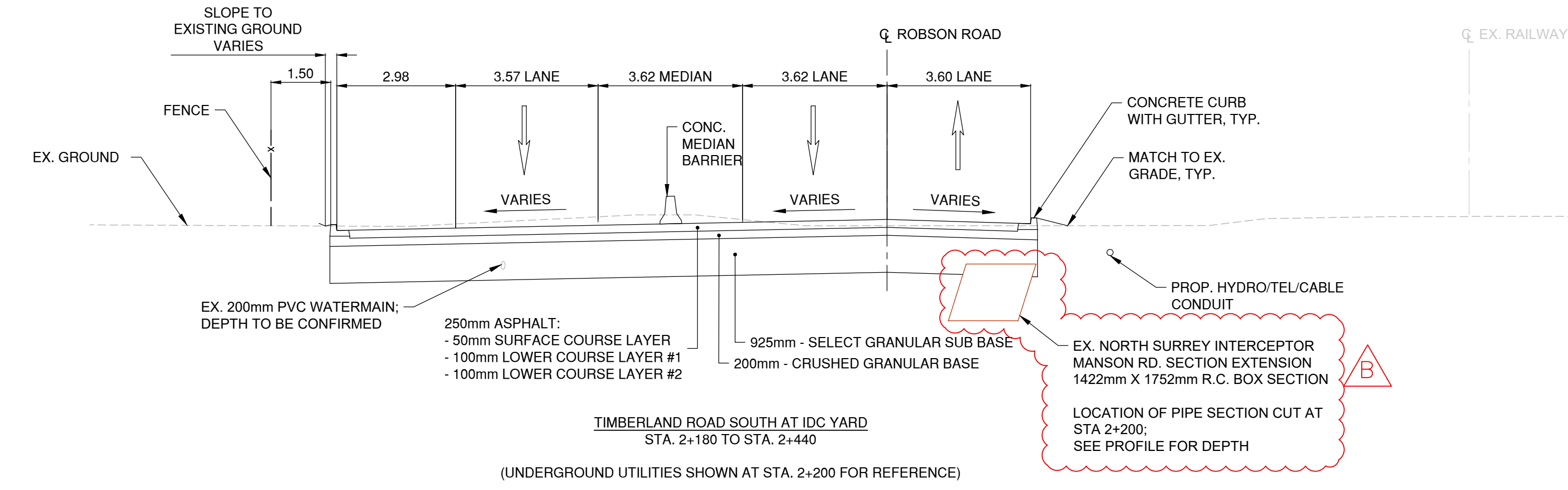


DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TUIA
DATE	2021/01/07
SCALE	1:100
PMV SITE	----

GREATER VANCOUVER GATEWAY 2030
 FSP TRANSPORTATION IMPROVEMENTS
 TYPICAL SECTIONS

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

DATE: 2021/04/29 - 8:55am
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 TITLE BLOCK: DL-TR.dwg



**NOT FOR
CONSTRUCTION**
April 29, 2021



No.	Date	REVISION	Dr'n	Ch'd
B	2021/01/07	ISSUED FOR METRO VANCOUVER	KY	VT
A	2020/12/18	ISSUED FOR 30% DESIGN	IL	VT



DESIGN BY	K. YANG
DRAWN BY	I. LOZADA
APPROVED	V. TJIA
DATE	2021/01/07
SCALE	1:100
PMV SITE	----

GREATER VANCOUVER GATEWAY 2030 FSPL TRANSPORTATION IMPROVEMENTS TYPICAL SECTIONS	
SIZE	DWG. C-010
SHEET	REV.
10 of 34	B

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

