



Ministry of
Transportation
and Infrastructure

PROJECT NO. 12947-0002

FRASER VALLEY HIGHWAY 1 CORRIDOR IMPROVEMENT PROGRAM

HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD



REFER TO TENDER DRAWING PACKAGE APPROVAL FORM	
ENGINEERING DIRECTOR _____	REGIONAL EXECUTIVE DIRECTOR _____
DATE _____	DATE _____



Ministry of
Transportation
and Infrastructure

PROJECT NO. 12947-0002

FRASER VALLEY HIGHWAY 1 CORRIDOR IMPROVEMENT PROGRAM HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD

L2000 - HIGHWAY 1 EASTBOUND
STA. P.O.T. 2040+46.000 - STA. P.O.T. 2050+75.920

1.030 km

LANDMARK KILOMETRE INVENTORY SEGMENT 0520 (EASTBOUND)
km 10.65 TO km 11.68

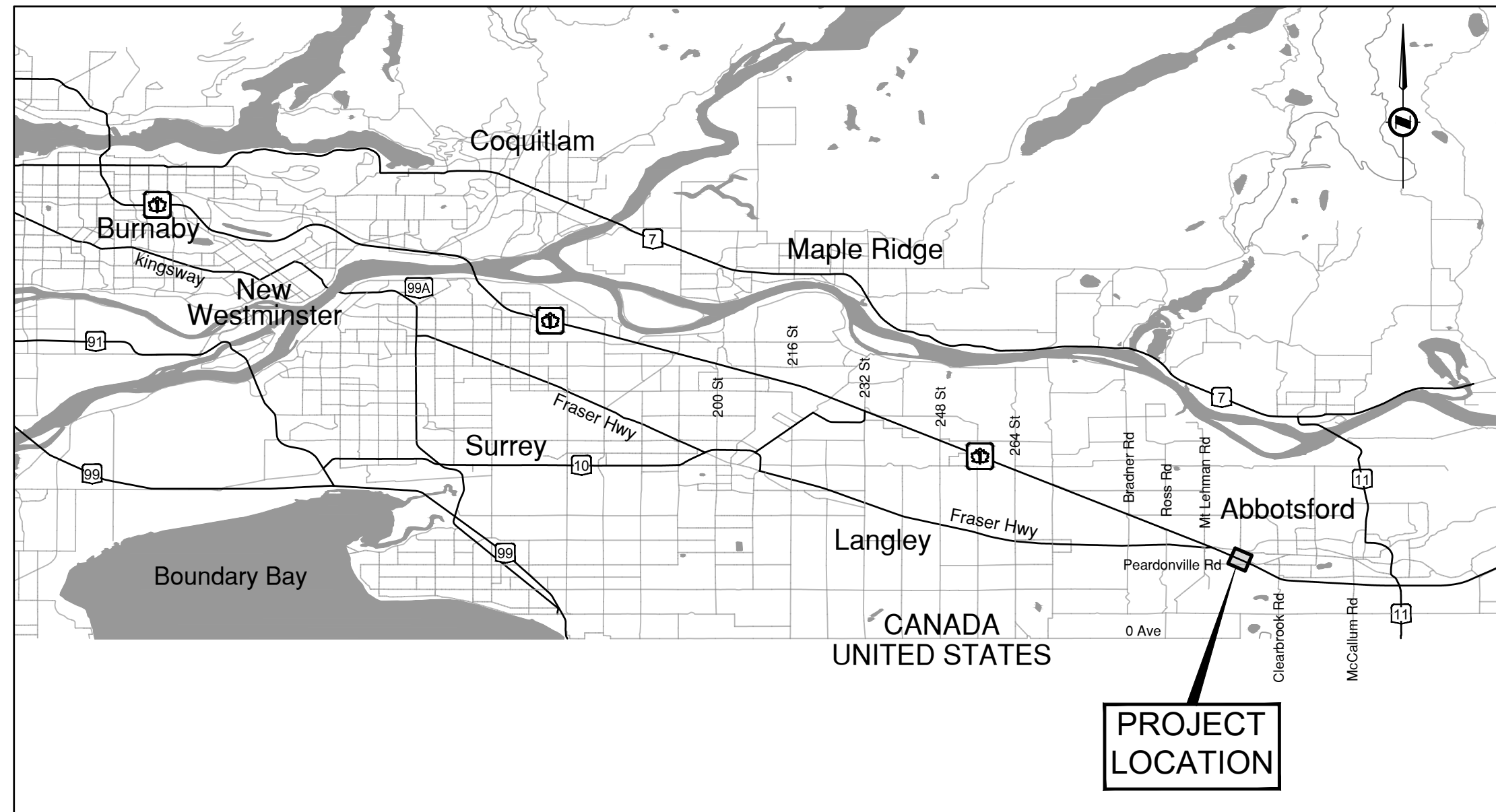
L2500 - HIGHWAY 1 WESTBOUND
STA. P.O.T. 2541+20.000 - STA. P.O.T. 2551+64.850

1.045 km

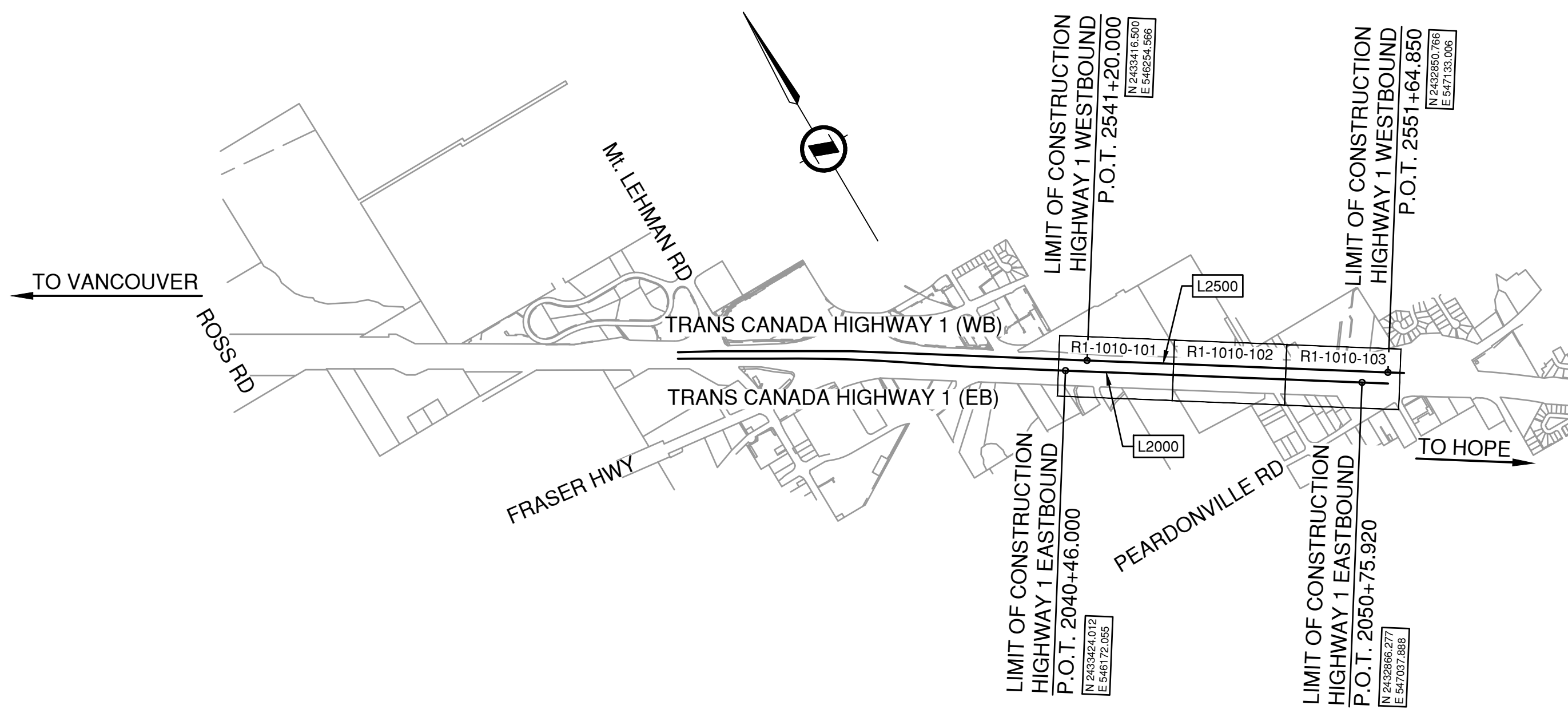
LANDMARK KILOMETRE INVENTORY SEGMENT 0521 (WESTBOUND)
km 7.91 TO km 6.87

DRAWING INDEX

R1-1010-000	COVER SHEET
R1-1010-001	LOCATION MAP / KEY PLAN / DRAWING INDEX
R1-1010-002	SURVEY CONTROL
R1-1010-003	LEGEND
R1-1010-101 to 103	PLAN / DRAINAGE
R1-1010-201 to 204	PROFILES
R1-1010-301 to 303	TYPICAL SECTIONS
R1-1010-351 to 352	MISCELLANEOUS DETAILS - ROADWORKS
R1-1010-361 to 362	MISCELLANEOUS DETAILS - DRAINAGE
R1-1010-363	MANHOLE TABLES
R1-1010-401 to 403	GEOMETRICS AND LANING / SIGNS
R1-1010-501 to 503	SPOT ELEVATIONS
R1-1010-504	SPOT ELEVATIONS TABLES



LOCATION MAP
N.T.S.



KEY PLAN
0 150 1:15000 750m

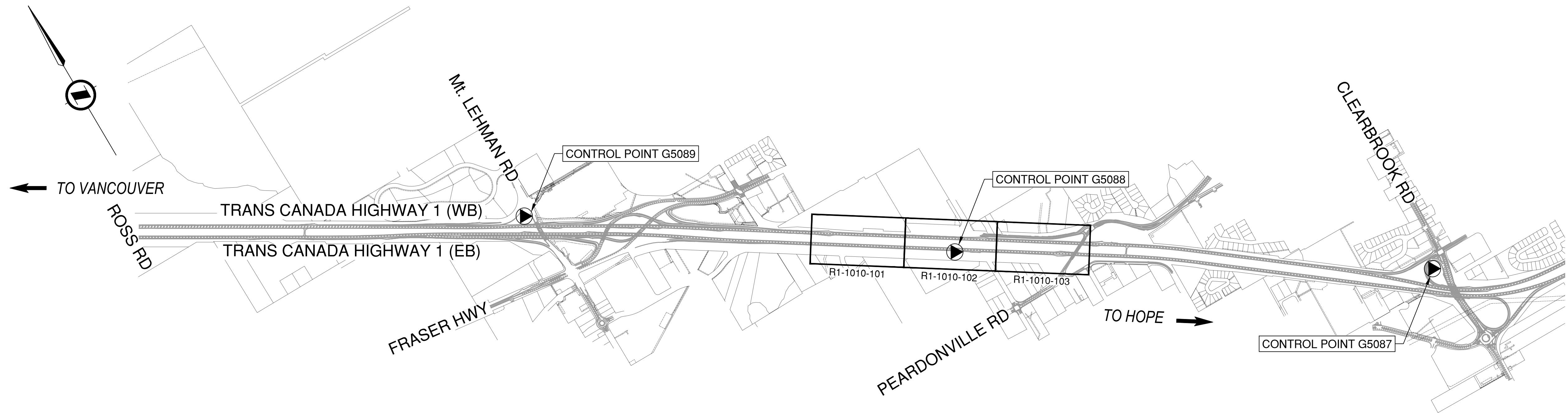
BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

LOCATION MAP / KEY PLAN / DRAWING INDEX HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD

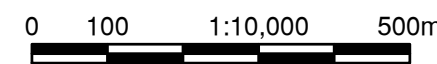
PERMIT TO PRACTICE ASSOCIATED ENGINEERING (B.C.) LTD. PERMIT NUMBER: 1000163 Engineers & Geoscientists BC	DESIGNED	H. ZHANG	DATE	2023-08-10
	QUALITY CONTROL	S. BIDULKA	DATE	2023-08-10
	QUALITY ASSURANCE	P. TSANG	DATE	2023-08-10
	DRAWN	H. YIN	DATE	2023-08-10

FILE NUMBER	PROJECT NUMBER	REG	DRAWING NUMBER	REV
2021-2305-00	12947-0002	1	R1-1010-001	

PLOT DATE: 2023/08/14 G:\2021-2305-00\civil\model\MoTI_DD_Working_Drawings\Drawings\000_CoverKeyPlan\Legend\Preload\R1-1010-001.dwg



CONTROL POINT LOCATIONS



SURVEY CONTROL TABLE

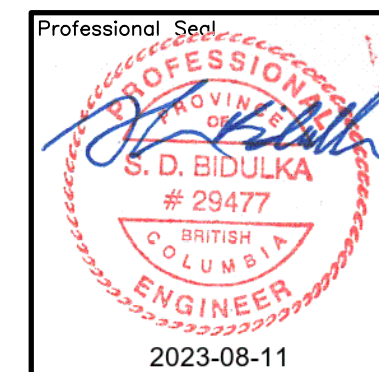
Date: 2021/01/19		Origin: GCM 956441									
Project: Highway 1 - 264th St to No3 Rd - SEGMENT 2			Tack Point: G5087			ACSF: 0.999621					
Horizontal Datum: UTM Z10 NAD 83 CSRS						Latitude: 49° 2' 20.34440"					
Vertical Datum: CGG2013a geoid using CGVD2013 datum						Longitude: -122° 20' 17.29475"					
Point ID	Local		Orthometric Height	UTM		Ellipsoidal Height	C.S.F.	Class	Type		
	Northing	Easting		Northing	Easting						
G5087	2432000.512	548372.356	62.024	5432000.512	548372.356	43.104	0.999622	Project	Rebar		
G5088	2433092.626	546658.564	57.990	5433092.212	546659.214	39.085	0.999621	Project	Rebar		
G5089	2434153.518	545158.360	97.286	5434152.702	545159.578	78.392	0.999613	Project	Rebar		

ALL LOCAL COORDINATES ARE DERIVED BY FIRST SCALING FROM THE TACK POINT AND THEN REMOVING THE 3000000 DIGIT FROM THE NORTHING

NOTES:

- * THE CGG2013a GEOID USES THE CGVD2013 VERTICAL DATUM AND THE HT2_0 GEOID USES THE CGVD28 VERTICAL DATUM.
- * CORRIDOR CONTROL CAN BE DERIVED FROM ROBUST NETWORK ADJUSTMENTS USING SOURCES SUCH AS MASCOT, ACTIVE, AND/OR PPP FOR VALID ABSOLUTE ACCURACIES.
- * PROJECT CONTROL ORIGINATES FROM A CORRIDOR POINT AND CLOSES TO A NETWORK CONFINED WITHIN THE SPECIFIC PROJECT TO PROVIDE SURVEY GRADE RELATIVE ACCURACIES.
- * "NAME" STATIC BRASS CAP MONUMENTS-YEAR. "G" STATIC TAG #-YEAR. "K" MULTI EPOCH RTK, "P" CLOSED TOTAL STATION TRAVERSE.

PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



SCALE AS SHOWN		CAD FILENAME: R1-1010-002 PLOT DATE: 2023-08-10			
REV	DATE	REVISIONS	NAME		
<p align="center">SURVEY CONTROL</p> <p align="center">HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD</p>			<p>DESIGNED: H. ZHANG DATE: 2023-08-10</p> <p>QUALITY CONTROL: S. BIDULKA DATE: 2023-08-10</p> <p>QUALITY ASSURANCE: P. TSANG DATE: 2023-08-10</p> <p>DRAWN: H. YIN DATE: 2023-08-10</p>		
DATE: 2023-08-10		ENGINEER OF RECORD: SHAUN BIDULKA, P. ENG.		DRAWING NUMBER: R1-1010-002	
FILE NUMBER: 2021-2305-00	PROJECT NUMBER: 12947-0002	REG: 1	DATE: 2023-08-11	REV: 1	

LEGEND

EXISTING SYMBOLS

SURVEY	DRAINAGE & UTILITIES
SPOT ELEVATION	MANHOLE
BENCHMARK	SANITARY/STORM CLEANOUT MANHOLE
REFERENCE POINT	POWER MANHOLE
DETAIL HUB	SANITARY SEWER MANHOLE
STANDARD IRON PIN	STORM SEWER MANHOLE
CONCRETE POST MONUMENT	TELEPHONE MANHOLE
CONTROL MONUMENT	UNKNOWN MANHOLE
ROCK POST MONUMENT	VAULT MANHOLE
STANDARD BRASS CAP MONUMENT	WATER MANHOLE
LEAD PLUG	MH/CB DRYWELL
TEST HOLE	CB LAWN
TEST PIT	CATCH BASIN
WOODEN POST	CATCH BASIN MANHOLE
ALUMINUM POST	ASPHALT SPILLWAY
ANGLE IRON POST	DRAINAGE GRATE
WITNESS POST	CULVERT
DOMINION IRON POST	CULVERT INLET
NON-STD. ROUND IRON POST	CULVERT OUTLET
NON-STD. SQUARE IRON POST	CULVERT KINK
MONITOR POINT	RIPRAP

AERIAL UTILITIES	UNDERGROUND
POWER GUY POLE	BREATHER VENT PIPE
TELEPHONE GUY POLE	FILLER CAP
POWER / TELEPHONE GUY POLE	FUEL / GAS PUMP
DEADMAN	FUEL TANK
ANCHOR GUY WIRE	SEPTIC TANK
HIGH TENSION POLE	UNDERGROUND MARKER
HIGH TENSION TOWER	IRRIGATION JUNCTION BOX
POWER POLE	IRRIGATION SPRINKLER HEAD
TELEPHONE POLE	UNDERGROUND TRANSFORMER
POWER / TELEPHONE POLE	
POWER POLE WITH TRANSFORMER	
POWER / TELEPHONE WITH TRANSFORMER	
PEDESTAL (TELUS)	
TELEPHONE BOOTH	

DETAIL	METERS
GATE POST	VALVE
GUARD POST	SERVICE VALVE
FLAG POLE	GAS VALVE
DELINEATOR POST	WATER VALVE
MAILBOX	WATER METER
DECORATIVE TREE	FIRE HYDRANT
TREE	STANDPIPE WATER BLOWOFF
WELL	AIR RELEASE VALVE
COMMERCIAL SIGN	
SWAMP	
POST MOUNTED DELINEATOR (YELLOW)	
POST MOUNTED DELINEATOR (WHITE)	

ROAD SIGNS
ONE-POST SIGN
TWO-POST SIGN
BREAKAWAY STEEL
STD. DAVIT POLE - TYPE 3
STD. COMBINATION POLE - TYPE 1
HEAVY DUTY DAVIT POLE - TYPE 6
H.D. COMBINATION POLE - TYPE 7
HEAVY POLE - TYPE H
H. COMBINATION POLE - TYPE H
CANTILEVER STRUCTURE
SIGN BRIDGE STRUCTURE

EXISTING LINE TYPES

MAN-MADE FEATURES
CONCRETE ROAD BARRIER
BROKEN WHITE LINE
SOLID WHITE LINE
SOLID YELLOW LINE
DOUBLE YELLOW LINE
CENTRELINE
ROAD SHOULDER
PAVEMENT EDGE
ASPHALT CURB
GRAVEL ROAD
SIDEWALK
FENCE
GARDEN, LAWNS, VEGETATION
HEDGE, BUSH LINE & TREE LINE
RETAINING WALL
CN TRACK BED

TOPOGRAPHY
BOTTOM OF BANK
TOP OF BANK

BOUNDARIES
EASEMENT
GAZETTE BOUNDARY
PARCEL BOUNDARY
QUARTER SECTION LINE
SECTION LINE & DISTRICT LOT BOUNDARY

HYDROLOGY
EDGE OF WATER
DITCH CENTER / DRAINAGE
EDGE OF DITCH
CENTER OF CREEK
STORM SEWER, MANHOLE & FLOW ARROW

UTILITIES
SANITARY SEWER, MANHOLE & FLOW ARROW
UNDERGROUND DRAIN PIPE
WATER MAIN
UNDERGROUND ELECTRICAL
GAS MAIN
UNDERGROUND MISCELLANEOUS
UNDERGROUND TELEPHONE
FIBRE OPTIC
OIL
COMMUNICATIONS AERIAL

ENVIRONMENTAL
CLASS A / AO WATERCOURSES

PROPOSED SYMBOLS

AERIAL UTILITIES	DRAINAGE & UTILITIES
POWER GUY POLE	MANHOLE
TELEPHONE GUY POLE	SANITARY/STORM CLEANOUT MANHOLE
POWER / TELEPHONE GUY POLE	POWER MANHOLE
DEADMAN	SANITARY SEWER MANHOLE
ANCHOR GUY WIRE	STORM SEWER MANHOLE
HIGH TENSION POLE	TELEPHONE MANHOLE
HIGH TENSION TOWER	UNKNOWN MANHOLE
POWER POLE	VAULT MANHOLE
TELEPHONE POLE	WATER MANHOLE
POWER / TELEPHONE POLE	MH/CB DRYWELL
POWER POLE WITH TRANSFORMER	CATCH BASIN (SINGLE)
POWER / TELEPHONE WITH TRANSFORMER	CATCH BASIN (TWIN)
PEDESTAL (TELUS)	LAWN BASIN
TELEPHONE BOOTH	RIPRAP SPILLWAY C/W DRAINAGE BARRIER
	DRAINAGE BARRIER
	CLEANOUT
	STORM WATER TREATMENT DEVICE
	CULVERT INLET / OUTLET C/W RIPRAP
	CULVERT HEADWALL C/W TRASH RACK
	RIPRAP

DETAIL	UNDERGROUND
GATE POST	BREATHER VENT PIPE
GUARD POST	FILLER CAP
FLAG POLE	FUEL / GAS PUMP
DELINEATOR POST	FUEL TANK
MAILBOX	SEPTIC TANK
POST MOUNTED DELINEATOR (YELLOW)	UNDERGROUND MARKER
POST MOUNTED DELINEATOR (WHITE)	IRRIGATION JUNCTION BOX
TOP MOUNTED BI-DIRECTIONAL REFLECTOR	IRRIGATION SPRINKLER HEAD
TOP OR SIDE MOUNTED MONO-DIRECTIONAL YELLOW REFLECTOR	UNDERGROUND TRANSFORMER
TOP OR SIDE MOUNTED MONO-DIRECTIONAL WHITE REFLECTOR	
RAISED PAVEMENT MARKERS (WHITE AND YELLOW)	

ROAD SIGNS	ELECTRICAL
ONE-POST SIGN	JUNCTION BOX
TWO-POST SIGN	UTILITY POLE
BREAKAWAY STEEL	ELECTRICAL OUTLET
STD. DAVIT POLE - TYPE 3	LAMP STANDARD
STD. COMBINATION POLE - TYPE 1	KIOSK
HEAVY DUTY DAVIT POLE - TYPE 6	TRAFFIC SIGNAL
H.D. COMBINATION POLE - TYPE 7	TRAFFIC COUNTER
HEAVY POLE - TYPE H	TRAFFIC SIGNAL CONTROL BOX
H. COMBINATION POLE - TYPE H	
CANTILEVER STRUCTURE	
SIGN BRIDGE STRUCTURE	

GEOTECHNICAL	METERS
SETTLEMENT GAUGE	VALVE
DEEP SETTLEMENT GAUGE	SERVICE VALVE
INCLINOMETER	GAS VALVE
PIEZOMETER	WATER VALVE
SETTLEMENT PIN	WATER METER
	FIRE HYDRANT
	STANDPIPE WATER BLOWOFF
	AIR RELEASE VALVE

PROPOSED LINE TYPES

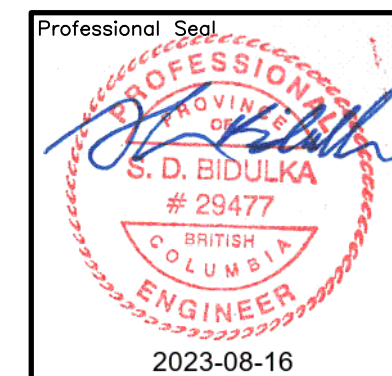
FEATURES
ROAD CENTRELINE
PAVEMENT EDGE
GRAVEL SHOULDER
ASPHALT CURB
CURB AND GUTTER
CONCRETE ROADSIDE BARRIER
RETAINING WALL
SOLID WHITE LINE
SOLID YELLOW LINE
BROKEN WHITE LINE
DECELERATION OR ACCELERATION LANE
CUT / FILL LINE
SAWCUT LINE
CLEARING & GRUBBING
CLEARING
BERM
SOUNDWALL
FENCE
BICYCLIST SIDEWALK FENCE ON CONCRETE BARRIER
FENCE REMOVAL
LIMIT OF OVERBURDEN REMOVAL

UTILITIES
DITCH
EDGE OF DITCH
CULVERT
SUBDRAIN
SWALE
BOSWALE
FILTER STRIP
STORM SEWER, MANHOLE & FLOW ARROW
SANITARY SEWER, MANHOLE & FLOW ARROW
WATER MAIN
GAS MAIN
UTILITY ABANDONED

BOUNDARIES
RIGHT OF WAY BOUNDARY
LICENSE TO CONSTRUCT

PLOT DATE: 2023/08/16 G:\2021-2305-00\civil\model\MoTI_DD_Working_DrawingProduction\000_CoverKeyPlanLegend\Preload\R1-1010-003.dwg

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PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

SCALE N.T.S. CAD FILENAME R1-1010-003 PLOT DATE 2023-08-10

REV	DATE	REVISIONS	NAME

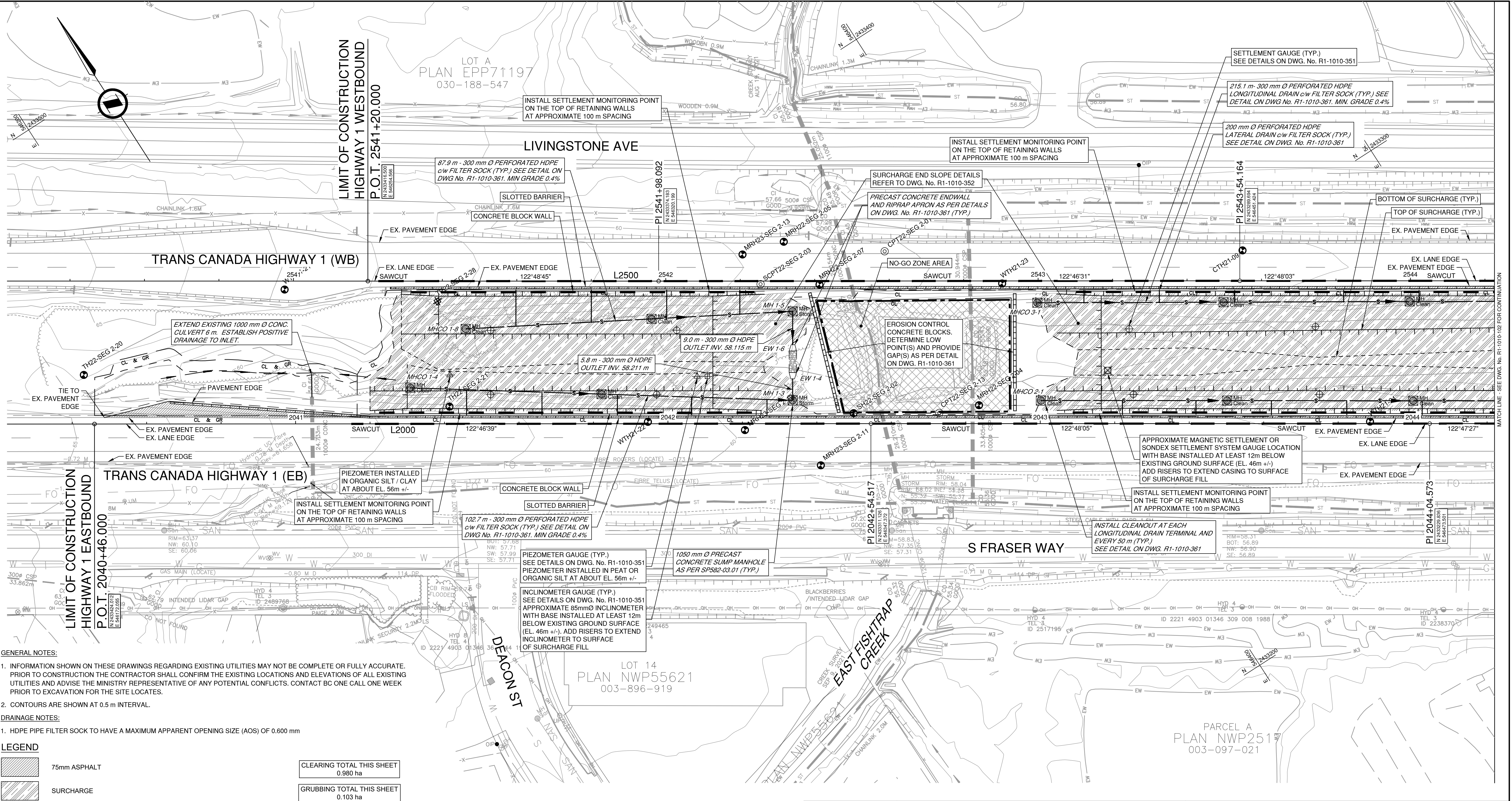
LEGEND

HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
FRASER HIGHWAY TO PEARDONVILLE ROAD

DESIGNED H. ZHANG DATE 2023-08-10
QUALITY CONTROL S. BIDULKA DATE 2023-08-10
ENGINEER OF RECORD SHAWN BIDULKA, P. ENG.
QUALITY ASSURANCE P. TSANG DATE 2023-08-10
DATE 2023-08-10 DRAWN H. YIN DATE 2023-08-10

FILE NUMBER 2021-2305-00	PROJECT NUMBER 12947-0002	REG 1	DRAWING NUMBER R1-1010-003	REV
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PLOT DATE: 2023/08/16 0:20:21-2305-000_civil_model\Drawings_DrawingProduction\100_Plan\101-101-103.dwg



GENERAL NOTES:

- INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES MAY NOT BE COMPLETE OR FULLY ACCURATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONFIRM THE EXISTING LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AND ADVISE THE MINISTRY REPRESENTATIVE OF ANY POTENTIAL CONFLICTS. CONTACT BC ONE CALL ONE WEEK PRIOR TO EXCAVATION FOR THE SITE LOCATES.
- CONTOURS ARE SHOWN AT 0.5 m INTERVAL.

DRAINAGE NOTES:

- HDPE PIPE FILTER SOCK TO HAVE A MAXIMUM APPARENT OPENING SIZE (AOS) OF 0.600 mm

LEGEND

- 75mm ASPHALT
- SURCHARGE
- NO-GO ZONE

CLEARING TOTAL THIS SHEET
0.980 ha

GRUBBING TOTAL THIS SHEET
0.103 ha

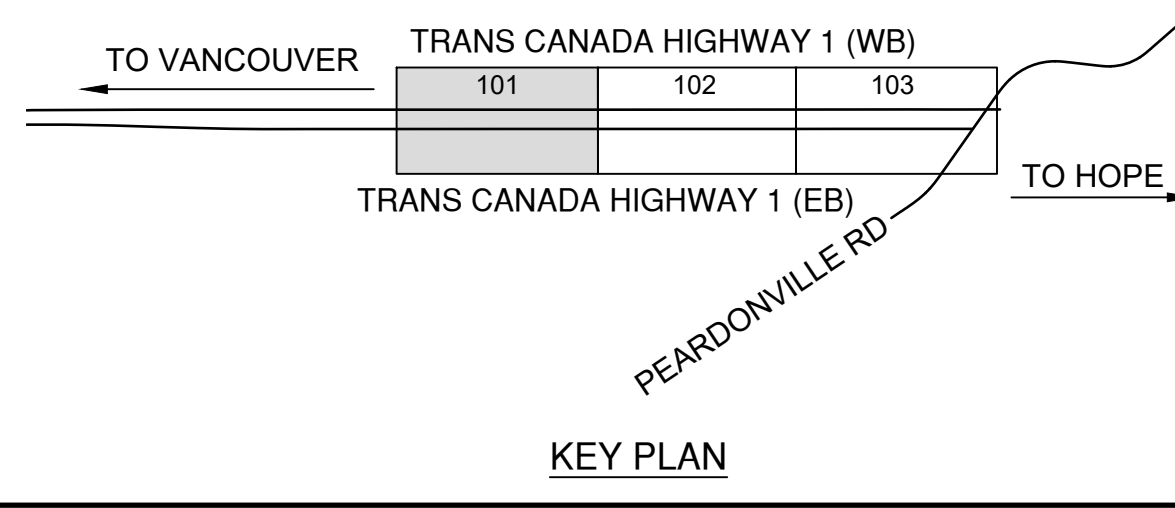
FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002

FOR PROFILES
SEE DWG. No. R1-1010-201 & 202

FOR TYPICAL SECTIONS
SEE DWG. No. R1-1010-301 TO 302

FOR GEOMETRICS AND LANING / SIGNS
SEE DWG. No. R1-1010-401

FOR SPOT ELEVATIONS
SEE DWG. No. R1-1010-501

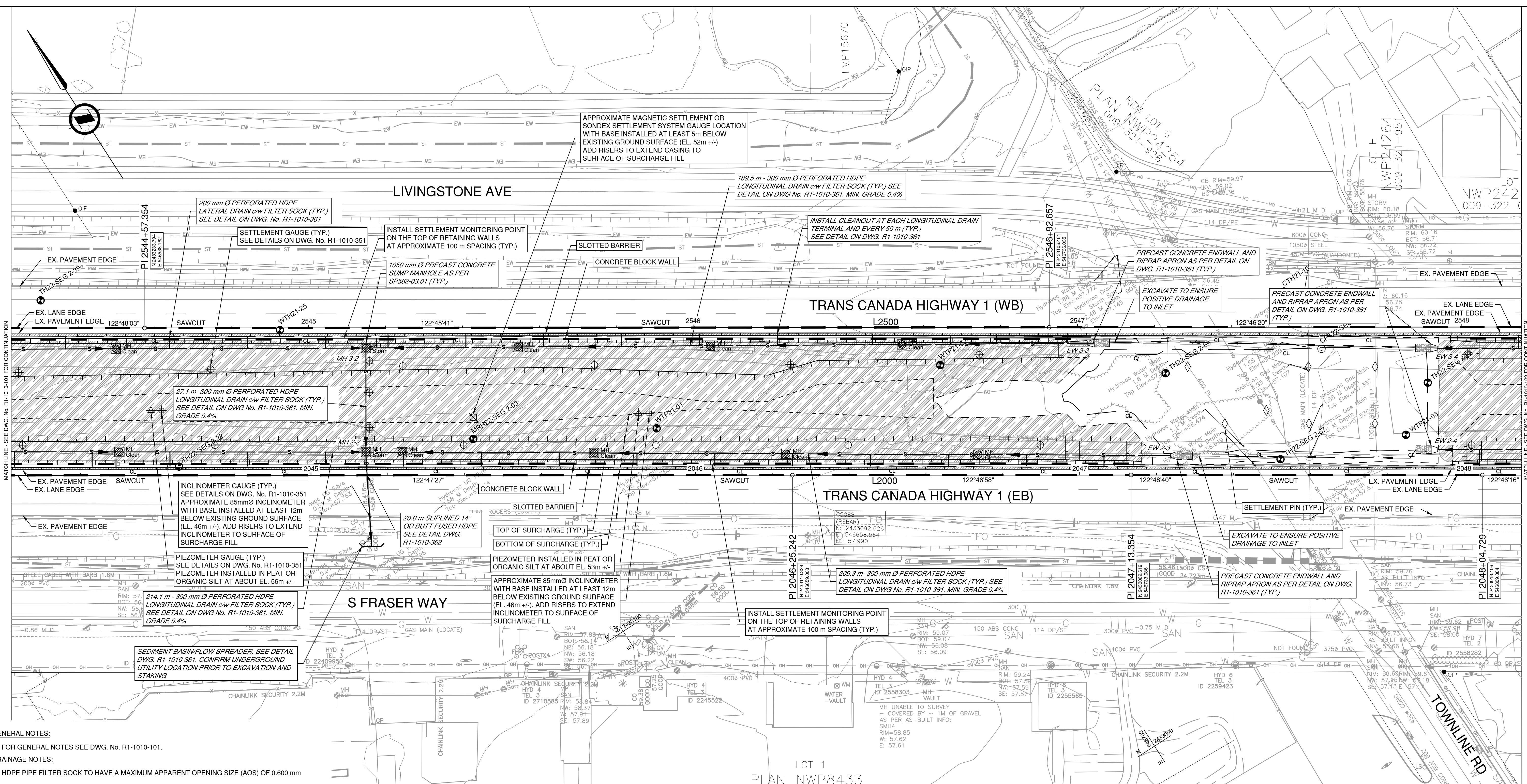


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PERMIT NUMBER: 1000163
Engineers & Geoscientists BC

Professional Seal		Associated Engineering	
SCALE 0 5 1:500 25m		CAD FILENAME R1-1010-101 PLOT DATE 2023-08-10	
REV	DATE	REVISIONS	NAME

BRITISH COLUMBIA		MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE SOUTH COAST REGION HIGHWAY DESIGN AND GEOMATICS ENGINEERING	
PLAN / DRAINAGE			
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500 STA. 2040+46.000 TO STA. 2044+22.000 / STA. 2541+20.000 TO STA. 2544+22.568			
DESIGNED	H. ZHANG	DATE	2023-08-10
QUALITY CONTROL	S. BIDULKA	DATE	2023-08-10
ENGINEER OF RECORD	P. TSANG	DATE	2023-08-10
DRAWN	A. SHEWAN	DATE	2023-08-10
DATE	2023-08-10	PROJECT NUMBER	12947-0002
FILE NUMBER	2021-2305-00	REG	1
DRAWING NUMBER	R1-1010-101	REV	

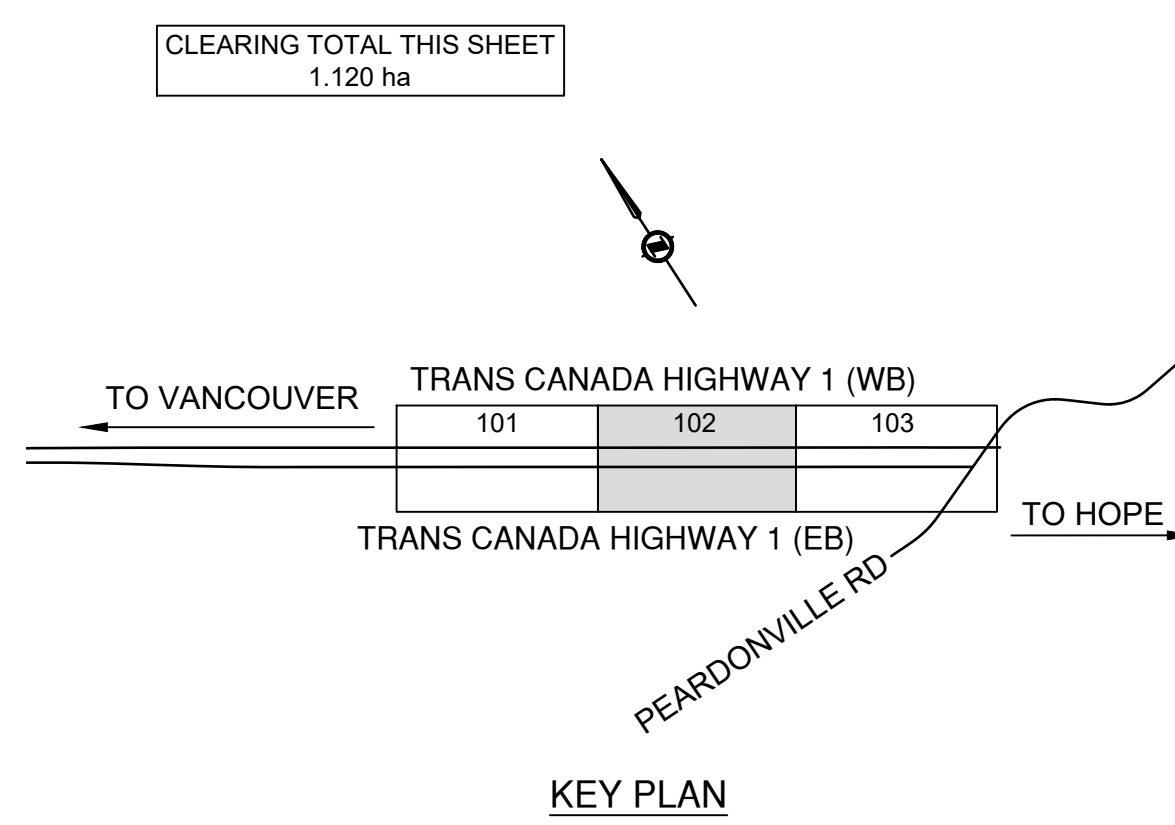
PLOT DATE: 2023/08/16 0:20:21-2305-001.civil model\NoTL_DD_Working_Drawings\Drawings\Production\100_Plan\Plans\Preload\R1-1010-101_103.dwg



- GENERAL NOTES:**
- FOR GENERAL NOTES SEE DWG. No. R1-1010-101.
- DRAINAGE NOTES:**
- HDPE PIPE FILTER SOCK TO HAVE A MAXIMUM APPARENT OPENING SIZE (AOS) OF 0.600 mm

- LEGEND**
- 75mm ASPHALT
 - SURCHARGE

- FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002
- FOR PROFILES
SEE DWG. No. R1-1010-201 TO 204
- FOR TYPICAL SECTIONS
SEE DWG. No. R1-1010-303
- FOR GEOMETRICS AND LANING / SIGNS
SEE DWG. No. R1-1010-402
- FOR SPOT ELEVATIONS
SEE DWG. No. R1-1010-502



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PERMIT NUMBER: 1000163
Engineers & Geoscientists BC

Professional Seal
S. D. BIDULKA
29477
BRITISH COLUMBIA
ENGINEER
2023-08-16
for road works

Associated Engineering

SCALE 0 5 1:500 25m

CAD FILENAME: R1-1010-102
PLOT DATE: 2023-08-10

REV	DATE	REVISIONS	NAME

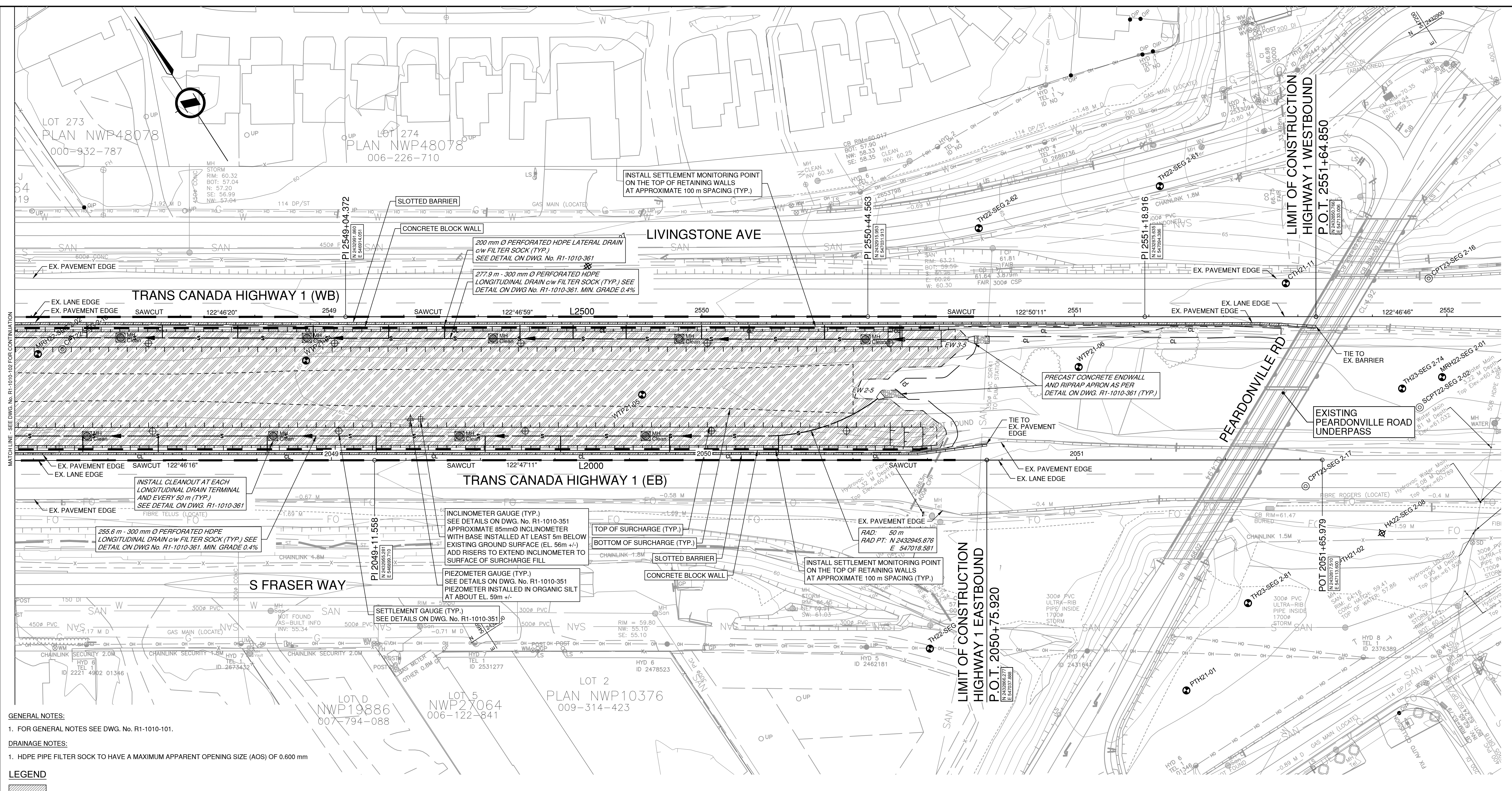
BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

PLAN / DRAINAGE
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
FRASER HIGHWAY TO PEARDONVILLE ROAD
HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500
STA. 2044+22.000 TO STA. 2048+15.000 / STA. 2544+22.568 TO STA. 2548+15.555

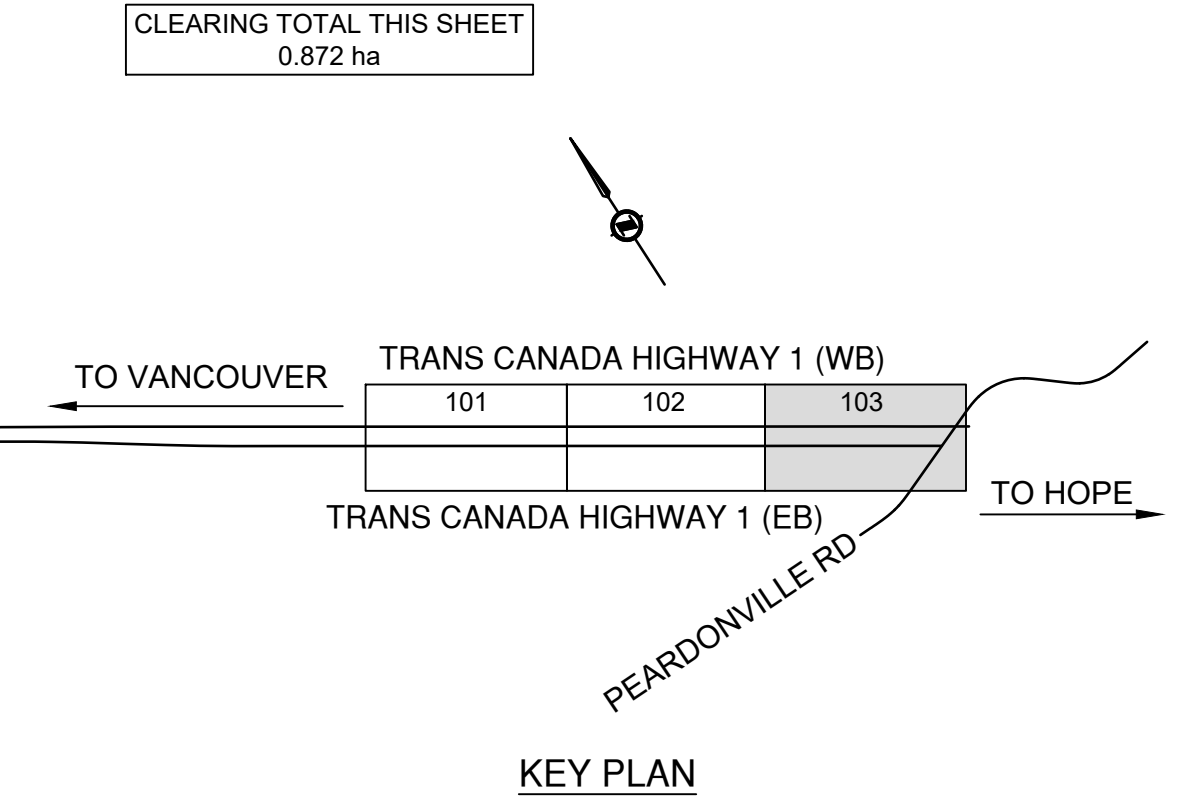
DESIGNED: H. ZHANG / E. FINNEY	DATE: 2023-08-10
QUALITY CONTROL: S. BIDULKA	DATE: 2023-08-10
ENGINEER OF RECORD: P. TSANG	DATE: 2023-08-10
DRAWN: A. SHEWAN	DATE: 2023-08-10

DATE: 2023-08-10	FILE NUMBER: 2021-2305-00	PROJECT NUMBER: 12947-0002	REG: 1	DRAWING NUMBER: R1-1010-102	REV:
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PLOT DATE: 2023/08/16 G:\2021-2305-00\civil\model\NoTI_DD_Working_Drawings\Production\100_Plans\Preload\R1-1010-101_103.dwg



- GENERAL NOTES:**
- FOR GENERAL NOTES SEE DWG. No. R1-1010-101.
- DRAINAGE NOTES:**
- HDPE PIPE FILTER SOCK TO HAVE A MAXIMUM APPARENT OPENING SIZE (AOS) OF 0.600 mm
- LEGEND**
- 75mm ASPHALT
 - SURCHARGE
- FOR SURVEY CONTROL**
SEE DWG. No. R1-1010-002
- FOR PROFILES**
SEE DWG. No. R1-1010-202 & 204
- FOR TYPICAL SECTIONS**
SEE DWG. No. R1-1010-303
- FOR GEOMETRICS AND LANING / SIGNS**
SEE DWG. No. R1-1010-403
- FOR SPOT ELEVATIONS**
SEE DWG. No. R1-1010-503



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PERMIT NUMBER: 1000163
Engineers & Geoscientists BC

Professional Seal
S. D. BIDULKA
29477
BRITISH COLUMBIA
ENGINEER
2023-08-16
for road works
Professional Seal
for drainage works

Associated Engineering

SCALE 0 5 1:500 25m

CAD FILENAME: R1-1010-103
PLOT DATE: 2023-08-10

REV	DATE	REVISIONS	NAME

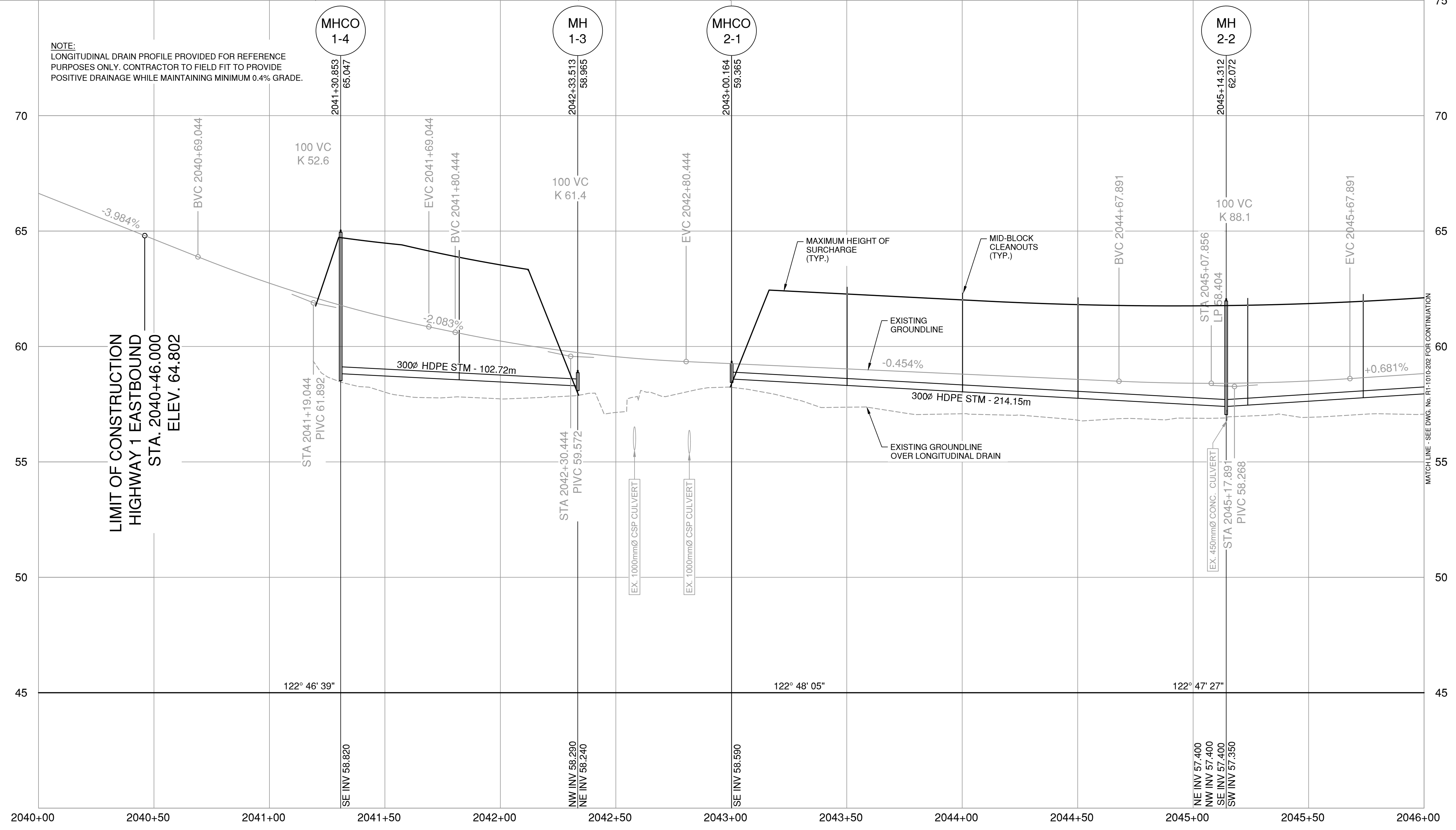
BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

PLAN / DRAINAGE
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
FRASER HIGHWAY TO PEARDONVILLE ROAD
HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500
STA. 2048+15.000 TO STA. 2050+75.920 / STA. 2548+15.555 TO STA. 2551+64.850

DESIGNED: H. ZHANG / E. FINNEY	DATE: 2023-08-10
QUALITY CONTROL: S. BIDULKA	DATE: 2023-08-10
ENGINEER OF RECORD: P. TSANG	DATE: 2023-08-10
DRAWN: A. SHEWAN	DATE: 2023-08-10

DATE: 2023-08-10	FILE NUMBER: 2021-2305-00	PROJECT NUMBER: 12947-0002	REG: 1	DRAWING NUMBER: R1-1010-103	REV:
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EXCAVATION	m³	20	50	2	290
GRANULAR BORROW	m³	1,000	5,410	NIL	16,790
STRIPPING	m³	235	NIL	NIL	NIL
STRIPPING DEPTH	mm	300	NIL	NIL	NIL
SIDE SLOPES		4H: 1V / 2.5H:1V	2.5H:1V	NIL	2.5H:1V



LIMIT OF CONSTRUCTION
HIGHWAY 1 EASTBOUND
STA. 2040+46.000
ELEV. 64.802

L2000
HIGHWAY 1 EASTBOUND

DESIGN SPEED L2000 - HIGHWAY 1 EASTBOUND 100 km/h

FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002

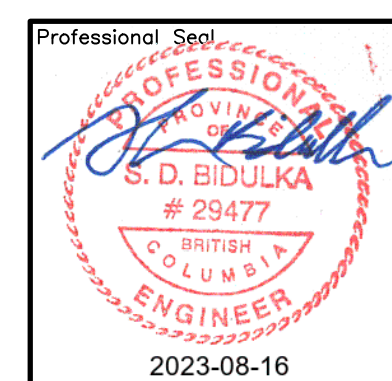
FOR PLANS
SEE DWG. No. R1-1010-101 TO 102

FOR TYPICAL SECTIONS
SEE DWG. No. R1-1010-301 TO 302

FOR GEOMETRICS AND LANING / SIGNS
SEE DWG. No. R1-1010-401 TO 402

FOR SPOT ELEVATIONS
SEE DWG. No. R1-1010-501 TO 502

PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



Associated Engineering

SCALE: 0 10 50m H 1:1000 V 1:100

CAD FILENAME: R1-1010-201
PLOT DATE: 2023-08-10

REV	DATE	REVISIONS	NAME

BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

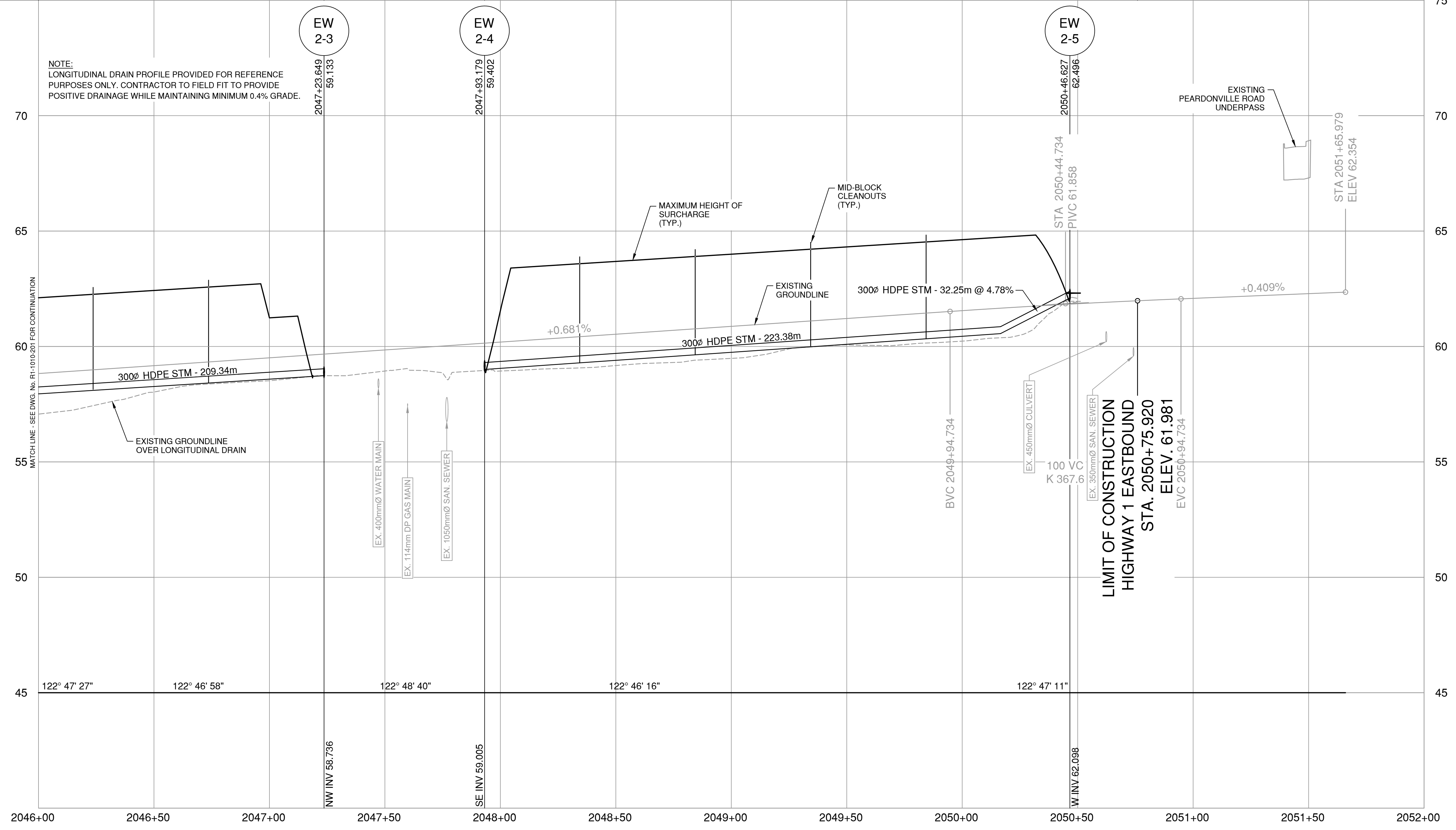
PROFILE
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
FRASER HIGHWAY TO PEARDONVILLE ROAD
HIGHWAY 1 EASTBOUND - L2000
STA. 2040+46.000 TO STA. 2046+00.000

DESIGNED: H. ZHANG DATE: 2023-08-10
QUALITY CONTROL: S. BIDULKA DATE: 2023-08-10
ENGINEER OF RECORD: SHAUN BIDULKA, P. ENG.
DATE: 2023-08-10
DRAWN: H. YIN DATE: 2023-08-10

FILE NUMBER	PROJECT NUMBER	REG	DRAWING NUMBER	REV
2021-2305-00	12947-0002	1	R1-1010-201	

PLOT DATE: 2023/08/16 G:\2021-2305-00\civil\model\MoTI_DD_Working_Drawings\DrawingProduction\200_Profiles\Preload\R1-1010-201_204.dwg

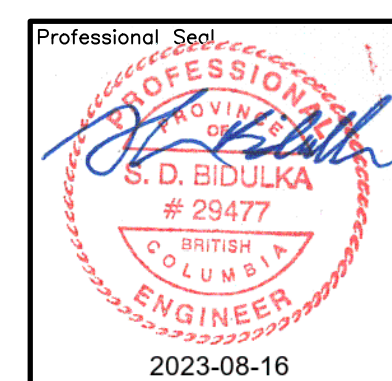
EXCAVATION	m³	←	1	160	TOTAL 525
GRANULAR BORROW	m³	←	6	10,360	TOTAL 33,565
STRIPPING	m³	NIL	40	340	TOTAL 615
STRIPPING DEPTH	mm	NIL	100		
SIDE SLOPES		2.5H:1V	NIL	2.5H:1V	



DESIGN SPEED L2000 - HIGHWAY 1 EASTBOUND 100 km/h

- FOR SURVEY CONTROL SEE DWG. No. R1-1010-002
- FOR PLANS SEE DWG. No. R1-1010-102 TO 103
- FOR TYPICAL SECTIONS SEE DWG. No. R1-1010-303
- FOR GEOMETRICS AND LANING / SIGNS SEE DWG. No. R1-1010-402 TO 403
- FOR SPOT ELEVATIONS SEE DWG. No. R1-1010-502 TO 503

PERMIT TO PRACTICE
 ASSOCIATED ENGINEERING (B.C.) LTD.
 PERMIT NUMBER: 1000163
 Engineers & Geoscientists BC



Associated Engineering

SCALE: 0 10 50m H 1:1000 V 1:100

CAD FILENAME: R1-1010-202
 PLOT DATE: 2023-08-10

REV	DATE	REVISIONS	NAME

BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
 SOUTH COAST REGION
 HIGHWAY DESIGN AND GEOMATICS ENGINEERING

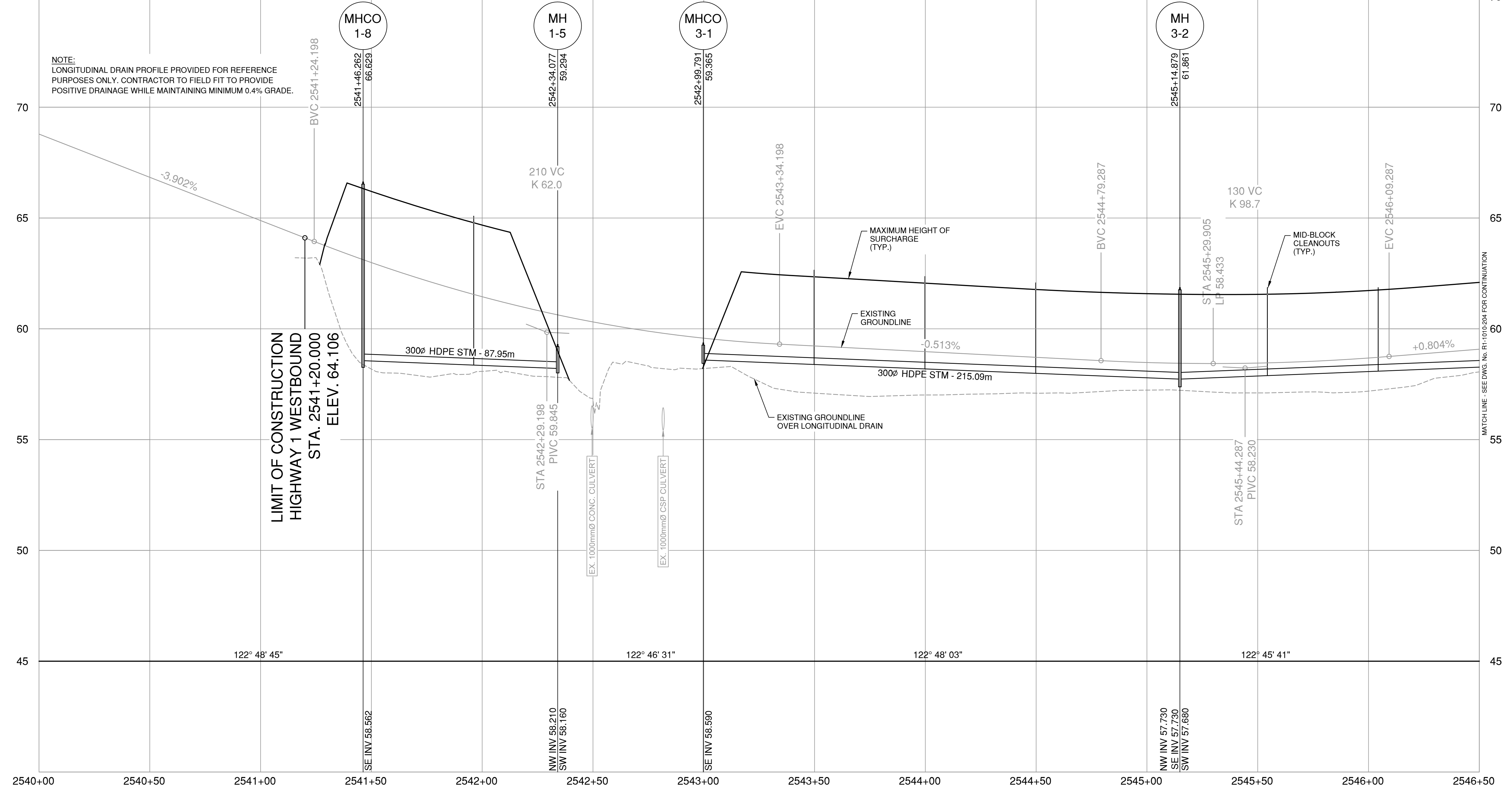
PROFILE
 HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
 FRASER HIGHWAY TO PEARDONVILLE ROAD
 HIGHWAY 1 EASTBOUND - L2000
 STA. 2046+00.000 TO STA. 2050+75.920

DESIGNED: H. ZHANG DATE: 2023-08-10
 QUALITY CONTROL: S. BIDULKA DATE: 2023-08-10
 ENGINEER OF RECORD: SHAUN BIDULKA, P. ENG.
 QUALITY ASSURANCE: P. TSANG DATE: 2023-08-10
 DATE: 2023-08-10
 DRAWN: H. YIN DATE: 2023-08-10

FILE NUMBER	PROJECT NUMBER	REG	DRAWING NUMBER	REV
2021-2305-00	12947-0002	1	R1-1010-202	

PLOT DATE: 2023/08/16 G:\2021-2305-00\civil\model\NoTL_DD_Working_Drawings\DrawingProduction\200_Profiles\Preload\R1-1010-201_204.dwg

EXCAVATION	m³	45	2	205
GRANULAR BORROW	m³	10,710	1	23,370
STRIPPING	m³	NIL	NIL	NIL
STRIPPING DEPTH	mm	NIL	NIL	NIL
SIDE SLOPES		2.5H:1V	NIL	2.5H:1V

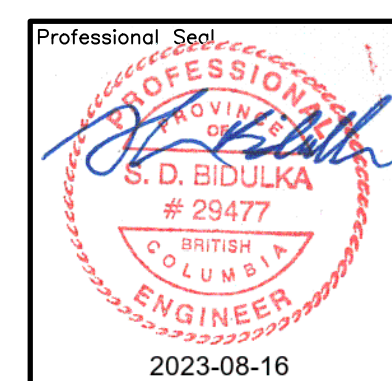


L2500
HIGHWAY 1 WESTBOUND

DESIGN SPEED L2500 - HIGHWAY 1 WESTBOUND 100 km/h

- FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002
- FOR PLANS
SEE DWG. No. R1-1010-101 TO 102
- FOR TYPICAL SECTIONS
SEE DWG. No. R1-1010-301 TO 302
- FOR GEOMETRICS AND LANING / SIGNS
SEE DWG. No. R1-1010-401 TO 402
- FOR SPOT ELEVATIONS
SEE DWG. No. R1-1010-501 TO 502

PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



Associated Engineering

SCALE: 0 10 50m H 1:1000 V 1:100

CAD FILENAME: R1-1010-203
PLOT DATE: 2023-08-10

REV	DATE	REVISIONS	NAME

BRITISH COLUMBIA

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

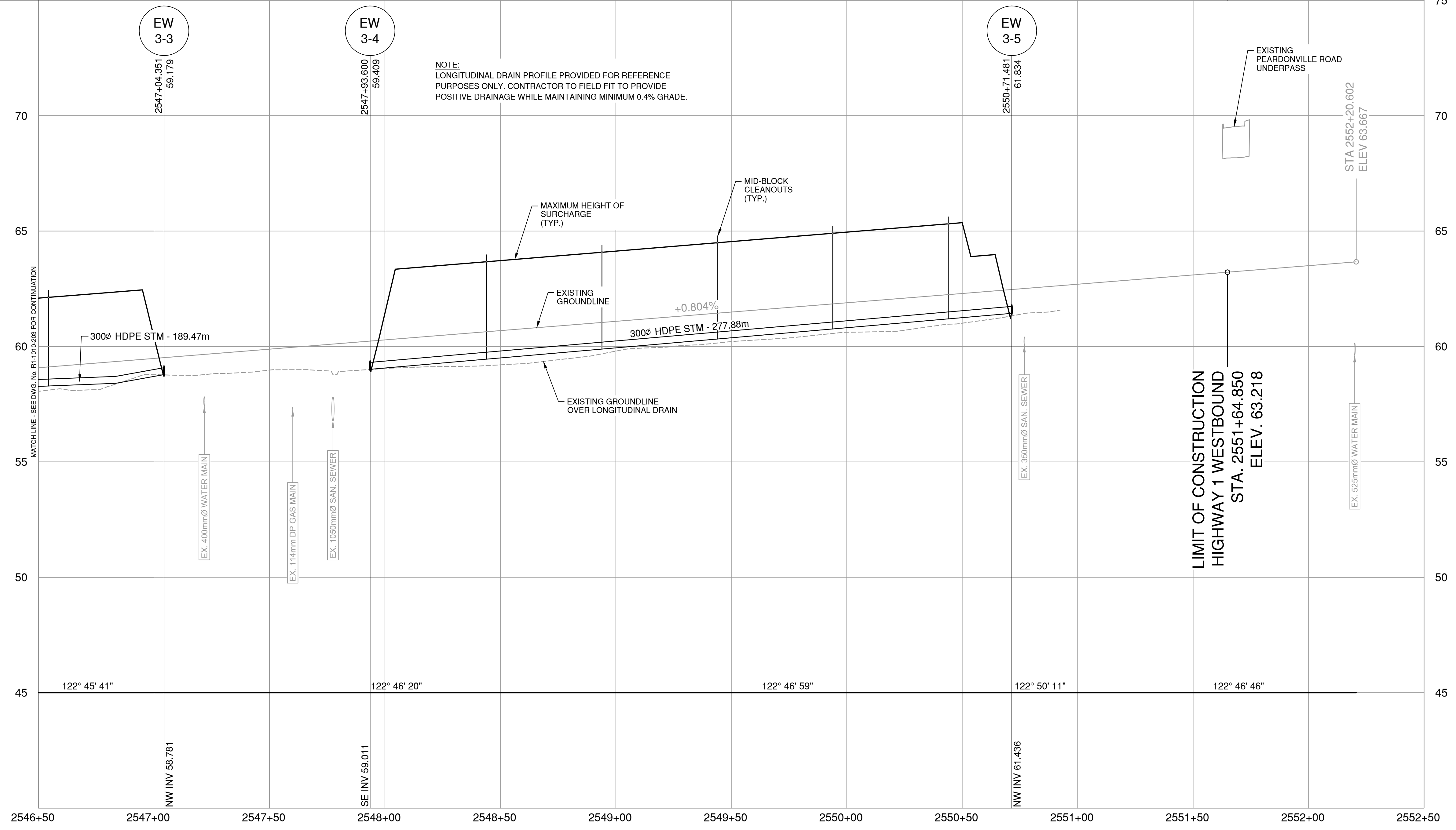
PROFILE
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
FRASER HIGHWAY TO PEARDONVILLE ROAD
HIGHWAY 1 WESTBOUND - L2500
STA. 2541+20.000 TO STA. 2546+50.000

DESIGNED: H. ZHANG	DATE: 2023-08-10
QUALITY CONTROL: S. BIDULKA	DATE: 2023-08-10
QUALITY ASSURANCE: P. TSANG	DATE: 2023-08-10
DRAWN: H. YIN	DATE: 2023-08-10

DATE: 2023-08-10	FILE NUMBER: 2021-2305-00	PROJECT NUMBER: 12947-0002	REG: 1	DRAWING NUMBER: R1-1010-203	REV:
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PLOT DATE: 2023/08/16 0:\2021-2305-00\civil\model\NoTL_DD_Working_Drawings\DrawingProduction\200_Profiles\Preload\R1-1010-201_204.dwg

EXCAVATION	m³	←	2	185	2	TOTAL 440
GRANULAR BORROW	m³	←	5	13,790	1	TOTAL 47,875
STRIPPING	m³	NIL	20	570	1	TOTAL 590
STRIPPING DEPTH	mm	NIL		100		
SIDE SLOPES		2.5H:1V	NIL		2.5H:1V	

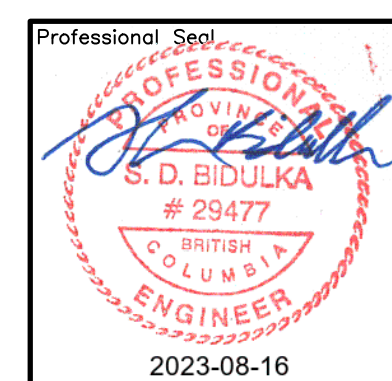


L2500
HIGHWAY 1 WESTBOUND

DESIGN SPEED L2500 - HIGHWAY 1 WESTBOUND 100 km/h

- FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002
- FOR PLANS
SEE DWG. No. R1-1010-102 TO 103
- FOR TYPICAL SECTIONS
SEE DWG. No. R1-1010-303
- FOR GEOMETRICS AND LANING / SIGNS
SEE DWG. No. R1-1010-402 TO 403
- FOR SPOT ELEVATIONS
SEE DWG. No. R1-1010-502 TO 503

PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



Associated Engineering

SCALE: 0 10 50m H 1:1000 V 1:100

CAD FILENAME: R1-1010-204
PLOT DATE: 2023-08-10

REV	DATE	REVISIONS	NAME

BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

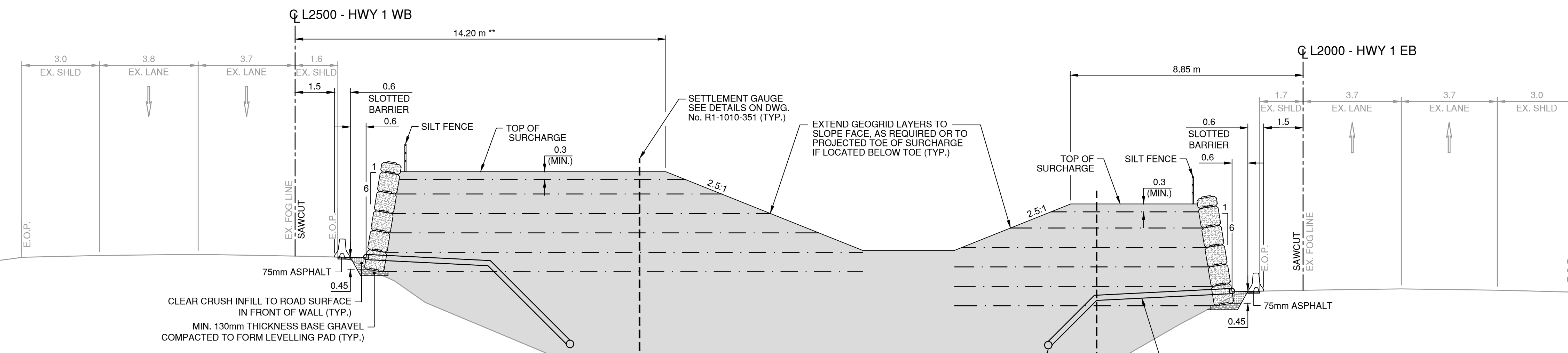
PROFILE
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
FRASER HIGHWAY TO PEARDONVILLE ROAD
HIGHWAY 1 WESTBOUND - L2500
STA. 2546+50.000 TO STA. 2551+64.850

DESIGNED: H. ZHANG DATE: 2023-08-10
QUALITY CONTROL: S. BIDULKA DATE: 2023-08-10
ENGINEER OF RECORD: SHAUN BIDULKA, P. ENG.
DATE: 2023-08-10
DRAWN: H. YIN DATE: 2023-08-10

FILE NUMBER 2021-2305-00	PROJECT NUMBER 12947-0002	REG 1	DRAWING NUMBER R1-1010-204	REV
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PLOT DATE: 2023/08/16 0:\2021-2305-00\civil\model\NoTI_DD_Working_Drawings\Production\200_Profiles\Preload\R1-1010-201_204.dwg

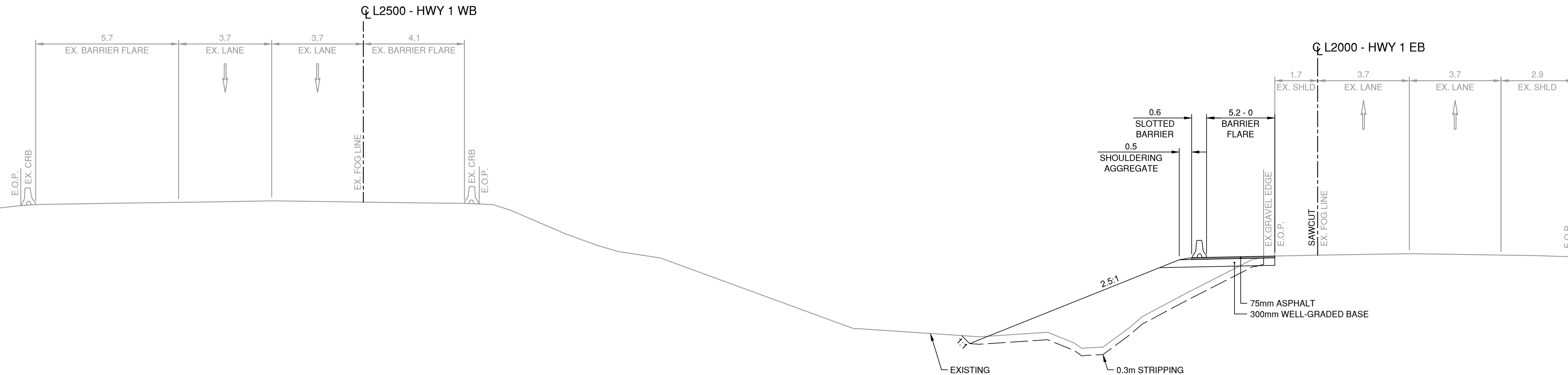
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**** NOTES:** 14.20 m OFFSET FROM WEST LIMIT TO STA. 2542+12.640
 14.00 m TO 13.00 m OFFSET FROM STA. 2543+16.938 TO STA. 2543+99.447
 13.00 m TO 10.30 m OFFSET FROM STA. 2543+99.447 TO STA. 2545+63.439
 10.30 m TO 12.40 m OFFSET FROM STA. 2545+63.439 TO STA. 2546+19.430
 12.40 m TO 8.60 m OFFSET FROM STA. 2546+19.430 TO STA. 2546+32.333
 8.60 m TO 7.91 m OFFSET FROM STA. 2546+32.333 TO STA. 2546+92.106
 7.91 m OFFSET FROM STA. 2546+92.106 TO STA. 2547+03.500

L2000 / L2500 - TRANS CANADA HIGHWAY 1

L2000 APPROX. STA. 2041+20.000 TO STA. 2042+12.000
 STA. 2043+16.369 TO STA. 2046+62.022
 STA. 2047+96.500 TO STA. 2050+40.000
 L2500 APPROX. STA. 2541+29.000 TO STA. 2542+12.640
 STA. 2543+16.938 TO STA. 2546+62.578
 STA. 2547+96.500 TO STA. 2550+40.596
 SECTION SHOWN AT STA. 2041+90.000



L2000 / L2500 - TRANS CANADA HIGHWAY 1

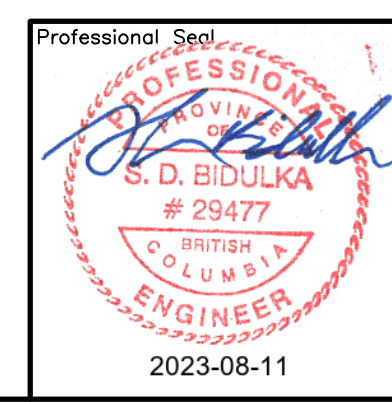
APPROX. STA. 2040+48.668 TO STA. 2041+20.000
 SECTION SHOWN AT STA. 2040+80.000

- FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002
- FOR PLANS
SEE DWG. No. R1-1010-101 TO 103
- FOR PROFILES
SEE DWG. No. R1-1010-201 TO 204
- FOR GEOMETRICS AND LANING / SIGNS
SEE DWG. No. R1-1010-401 TO 403
- FOR SPOT ELEVATIONS
SEE DWG. No. R1-1010-501 TO 503

NOTES:

- ALL DIMENSIONS SHOWN IN METRES UNLESS OTHERWISE NOTED.
- THE PRELOAD / SURCHARGE FILL SHALL BE CONSTRUCTED IN STAGES. THE GENERAL CONSTRUCTION SEQUENCE IS ASSUMED TO BE LONGITUDINALLY ALONG THE HIGHWAY IN UNIFORM LIFTS. UTILIZING THE DISTANCE WILL ALLOW TIME FOR PLACED FILL TO CONSOLIDATE AND MONITORING DATA TO BE COLLECTED BEFORE PLACEMENT OF SUBSEQUENT LIFTS. THE INITIAL LIFT MAY BE UP TO 0.6 m ABOVE PREPARED SUBGRADE WHICH MAY REQUIRE GEOGRID REINFORCEMENT. A GEOTEXTILE BASE SEPARATION LAYER(S) MAY ALSO BE REQUIRED DEPENDING ON CONDITIONS ENCOUNTERED DURING PREPARATION. EACH SUBSEQUENT MATERIAL LIFT WILL REQUIRE GEOTECHNICAL APPROVAL TO PROCEED. THE PRELOAD / SURCHARGE FILL MUST BE RAISED GENERALLY UNIFORMLY TO THE DESIGN GRADES ON THE DRAWINGS. THE DIFFERENCE IN ELEVATION BETWEEN LIFTS BEHIND THE MODULAR BLOCK WALLS ON EITHER SIDE MUST NOT EXCEED 0.6 m AT ANY GIVEN TIME. REFER TO SPECIAL PROVISIONS FOR FULL DETAILS.

PERMIT TO PRACTICE
 ASSOCIATED ENGINEERING (B.C.) LTD.
 PERMIT NUMBER: 1000163
 Engineers & Geoscientists BC



Associated Engineering		CAD FILENAME: R1-1010-301 PLOT DATE: 2023-08-10	
SCALE 0 1 1:100 5m			
REV	DATE	REVISIONS	NAME

BRITISH COLUMBIA

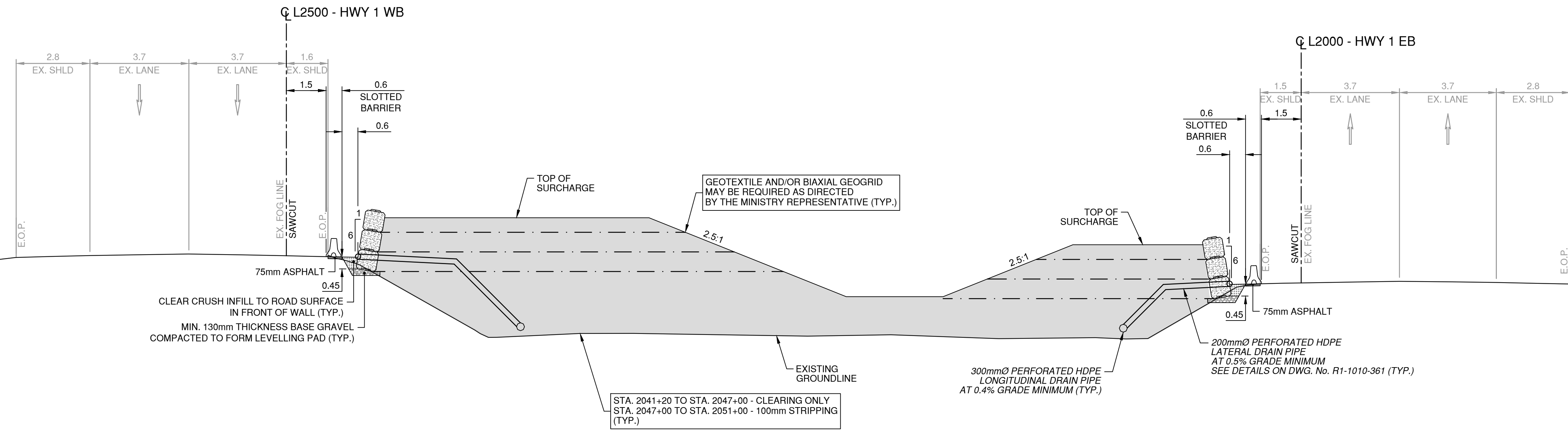
MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
 SOUTH COAST REGION
 HIGHWAY DESIGN AND GEOMATICS ENGINEERING

TYPICAL SECTIONS
 HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
 FRASER HIGHWAY TO PEARDONVILLE ROAD
 HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500
 SHEET 1 OF 3

DESIGNED: H. ZHANG	DATE: 2023-08-10
QUALITY CONTROL: S. BIDULKA	DATE: 2023-08-10
QUALITY ASSURANCE: P. TSANG	DATE: 2023-08-10
DRAWN: H. YIN	DATE: 2023-08-10

DATE: 2023-08-10	FILE NUMBER: 2021-2305-00	PROJECT NUMBER: 12947-0002	REG: 1	DRAWING NUMBER: R1-1010-301	REV:
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PLOT DATE: 2023/08/10 0:12:2305-000\civil\model\MoTI_DD_Working_Drawings\DrawingProduction\300_TypicalSections\Preload\R1-1010-300.dwg



L2000 / L2500 - TRANS CANADA HIGHWAY 1
 L2000 APPROX. STA. 2042+12.000 TO STA. 2042+25.000
 STA. 2043+04.500 TO STA. 2043+16.369
 L2500 APPROX. STA. 2542+12.640 TO STA. 2542+26.500
 STA. 2543+05.000 TO STA. 2543+16.938
 SECTION SHOWN AT STA. 2042+20.000

FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002

FOR PLAN
SEE DWG. No. R1-1010-101

FOR PROFILES
SEE DWG. No. R1-1010-201 & 203

FOR GEOMETRICS AND LANING / SIGNS
SEE DWG. No. R1-1010-401

FOR SPOT ELEVATIONS
SEE DWG. No. R1-1010-501

NOTES:

- ALL DIMENSIONS SHOWN IN METRES UNLESS OTHERWISE NOTED.
- THE PRELOAD / SURCHARGE FILL SHALL BE CONSTRUCTED IN STAGES. THE GENERAL CONSTRUCTION SEQUENCE IS ASSUMED TO BE LONGITUDINALLY ALONG THE HIGHWAY IN UNIFORM LIFTS. UTILIZING THE DISTANCE WILL ALLOW TIME FOR PLACED FILL TO CONSOLIDATE AND MONITORING DATA TO BE COLLECTED BEFORE PLACEMENT OF SUBSEQUENT LIFTS. THE INITIAL LIFT MAY BE UP TO 0.6 m ABOVE PREPARED SUBGRADE WHICH MAY REQUIRE GEOGRID REINFORCEMENT. A GEOTEXTILE BASE SEPARATION LAYER(S) MAY ALSO BE REQUIRED DEPENDING ON CONDITIONS ENCOUNTERED DURING PREPARATION. EACH SUBSEQUENT MATERIAL LIFT WILL REQUIRE GEOTECHNICAL APPROVAL TO PROCEED. THE PRELOAD / SURCHARGE FILL MUST BE RAISED GENERALLY UNIFORMLY TO THE DESIGN GRADES ON THE DRAWINGS. THE DIFFERENCE IN ELEVATION BETWEEN LIFTS BEHIND THE MODULAR BLOCK WALLS ON EITHER SIDE MUST NOT EXCEED 0.6 m AT ANY GIVEN TIME. REFER TO SPECIAL PROVISIONS FOR FULL DETAILS.

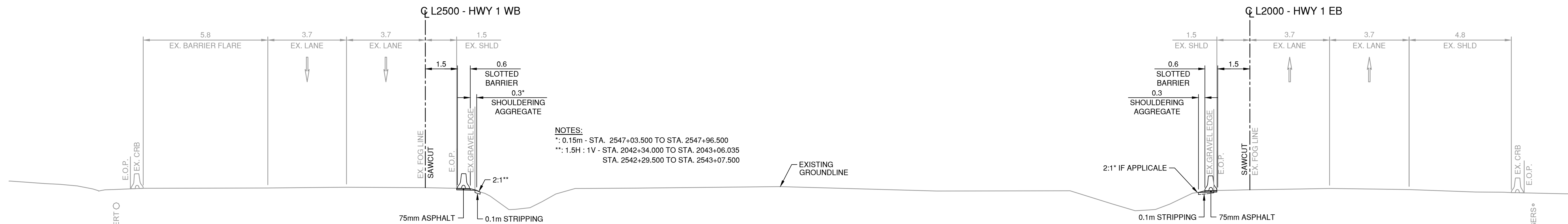
PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



SCALE 0 1 1:100 5m		CAD FILENAME R1-1010-302	
		PLOT DATE 2023-08-10	
REV	DATE	REVISIONS	NAME

		MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE SOUTH COAST REGION HIGHWAY DESIGN AND GEOMATICS ENGINEERING	
TYPICAL SECTIONS HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500 SHEET 2 OF 3			
DESIGNED <u>H. ZHANG</u> DATE <u>2023-08-10</u>		QUALITY CONTROL <u>S. BIDULKA</u> DATE <u>2023-08-10</u>	
ENGINEER OF RECORD <u>SHAUN BIDULKA, P. ENG.</u>		QUALITY ASSURANCE <u>P. TSANG</u> DATE <u>2023-08-10</u>	
DATE <u>2023-08-10</u>		DRAWN <u>H. YIN</u> DATE <u>2023-08-10</u>	
FILE NUMBER 2021-2305-00	PROJECT NUMBER 12947-0002	REG 1	DRAWING NUMBER R1-1010-302

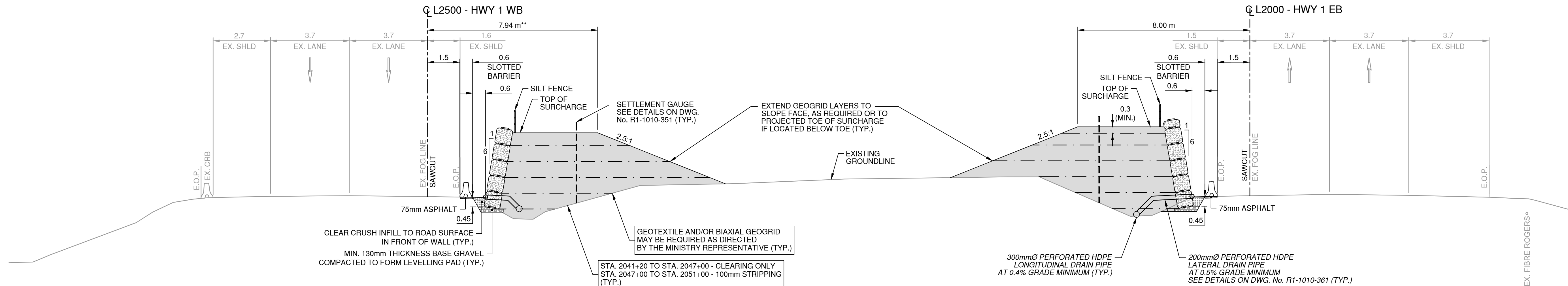
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L2000 / L2500 - TRANS CANADA HIGHWAY 1

APPROX. STA. 2042+34.000 TO STA. 2043+06.035
 STA. 2047+17.034 TO STA. 2047+96.500
 STA. 2542+29.500 TO STA. 2543+07.500
 STA. 2547+03.500 TO STA. 2547+96.500
 STA. 2550+68.000 TO STA. 2551+64.850
 SECTION SHOWN AT STA. 2047+20.000

NOTES:
 * 0.15m - STA. 2547+03.500 TO STA. 2547+96.500
 ** 1.5H : 1V - STA. 2042+34.000 TO STA. 2043+06.035
 STA. 2542+29.500 TO STA. 2543+07.500



**** NOTES:** 8.60 m TO 7.91 m OFFSET FROM STA. 2546+32.333 TO STA. 2546+92.657
 7.91 m OFFSET FROM STA. 2546+92.106 TO STA. 2547+03.500
 8.10 m OFFSET FROM STA. 2547+96.500 TO STA. 2550+68.000

L2000 / L2500 - TRANS CANADA HIGHWAY 1

L2000 APPROX. STA. 2046+62.022 TO STA. 2047+17.034
 STA. 2050+40.000 TO STA. 2050+63.454
 L2500 APPROX. STA. 2546+62.578 TO STA. 2547+03.500
 STA. 2550+40.596 TO STA. 2550+68.000
 SECTION SHOWN AT STA. 2046+80.000

FOR SURVEY CONTROL
 SEE DWG. No. R1-1010-002

FOR PLANS
 SEE DWG. No. R1-1010-101 TO 103

FOR PROFILES
 SEE DWG. No. R1-1010-201 TO 204

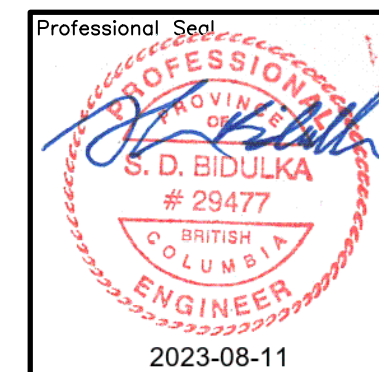
FOR GEOMETRICS AND LANING / SIGNS
 SEE DWG. No. R1-1010-401 TO 403

FOR SPOT ELEVATIONS
 SEE DWG. No. R1-1010-501 TO 503

NOTES:

- ALL DIMENSIONS SHOWN IN METRES UNLESS OTHERWISE NOTED.
- THE PRELOAD / SURCHARGE FILL SHALL BE CONSTRUCTED IN STAGES. THE GENERAL CONSTRUCTION SEQUENCE IS ASSUMED TO BE LONGITUDINALLY ALONG THE HIGHWAY IN UNIFORM LIFTS. UTILIZING THE DISTANCE WILL ALLOW TIME FOR PLACED FILL TO CONSOLIDATE AND MONITORING DATA TO BE COLLECTED BEFORE PLACEMENT OF SUBSEQUENT LIFTS. THE INITIAL LIFT MAY BE UP TO 0.6 m ABOVE PREPARED SUBGRADE WHICH MAY REQUIRE GEOGRID REINFORCEMENT. A GEOTEXTILE BASE SEPARATION LAYER(S) MAY ALSO BE REQUIRED DEPENDING ON CONDITIONS ENCOUNTERED DURING PREPARATION. EACH SUBSEQUENT MATERIAL LIFT WILL REQUIRE GEOTECHNICAL APPROVAL TO PROCEED. THE PRELOAD / SURCHARGE FILL MUST BE RAISED GENERALLY UNIFORMLY TO THE DESIGN GRADES ON THE DRAWINGS. THE DIFFERENCE IN ELEVATION BETWEEN LIFTS BEHIND THE MODULAR BLOCK WALLS ON EITHER SIDE MUST NOT EXCEED 0.6 m AT ANY GIVEN TIME. REFER TO SPECIAL PROVISIONS FOR FULL DETAILS.

PERMIT TO PRACTICE
 ASSOCIATED ENGINEERING (B.C.) LTD.
 PERMIT NUMBER: 1000163
 Engineers & Geoscientists BC

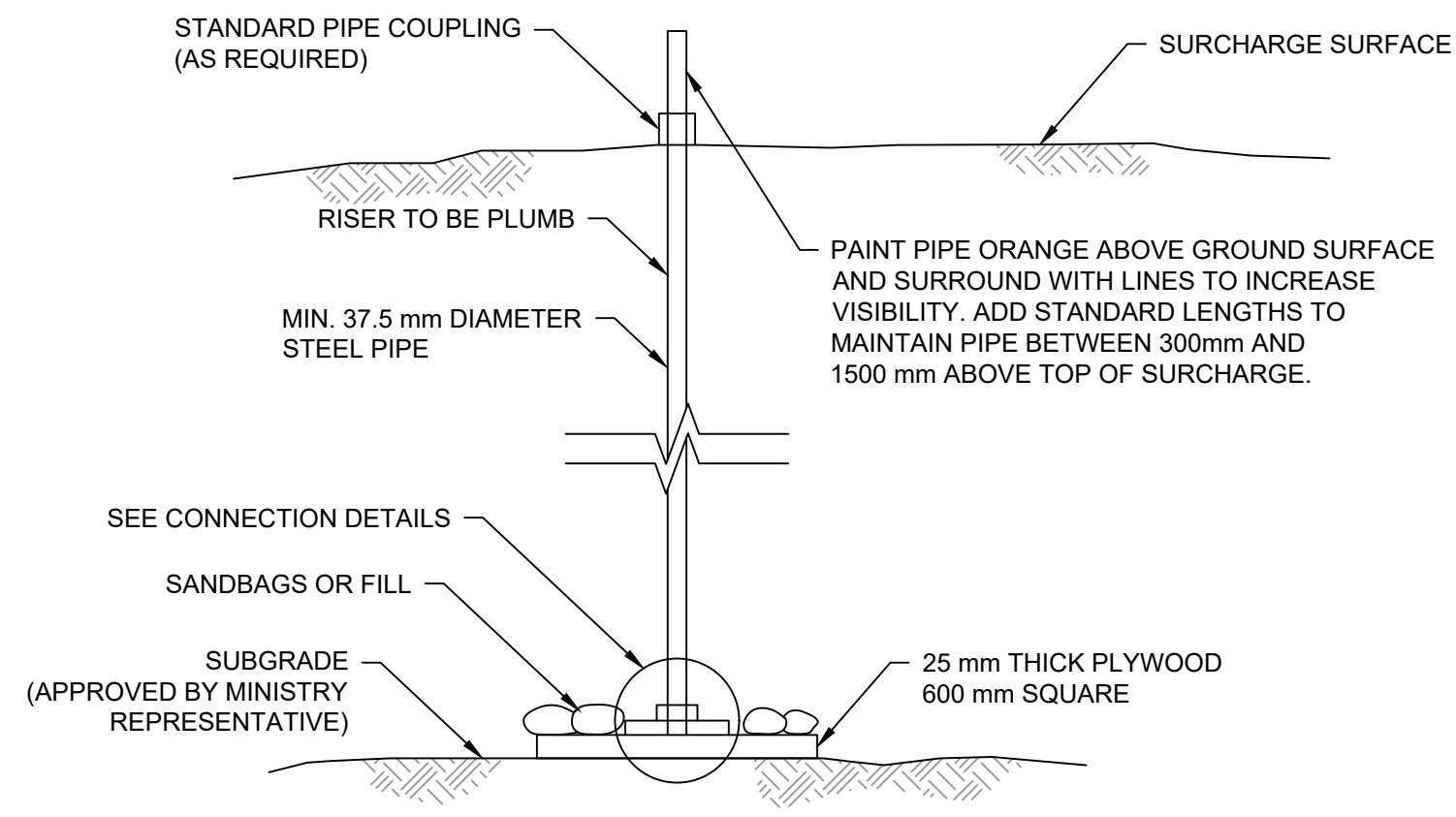


MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
 SOUTH COAST REGION
 HIGHWAY DESIGN AND GEOMATICS ENGINEERING

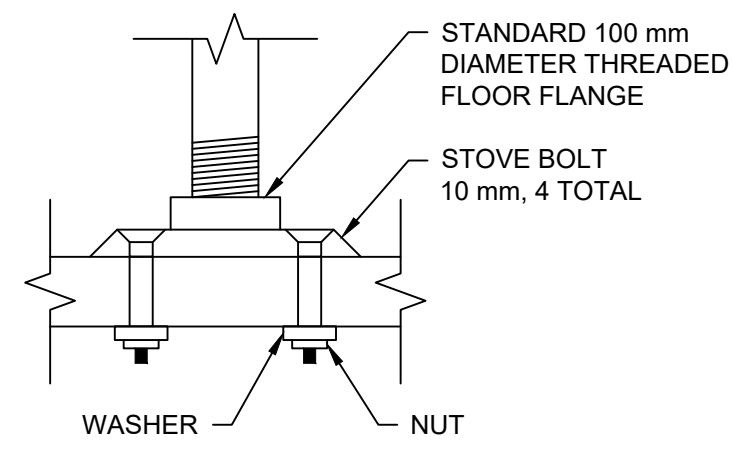
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 CAD FILENAME R1-1010-303
 PLOT DATE 2023-08-10

REV	DATE	REVISIONS	NAME

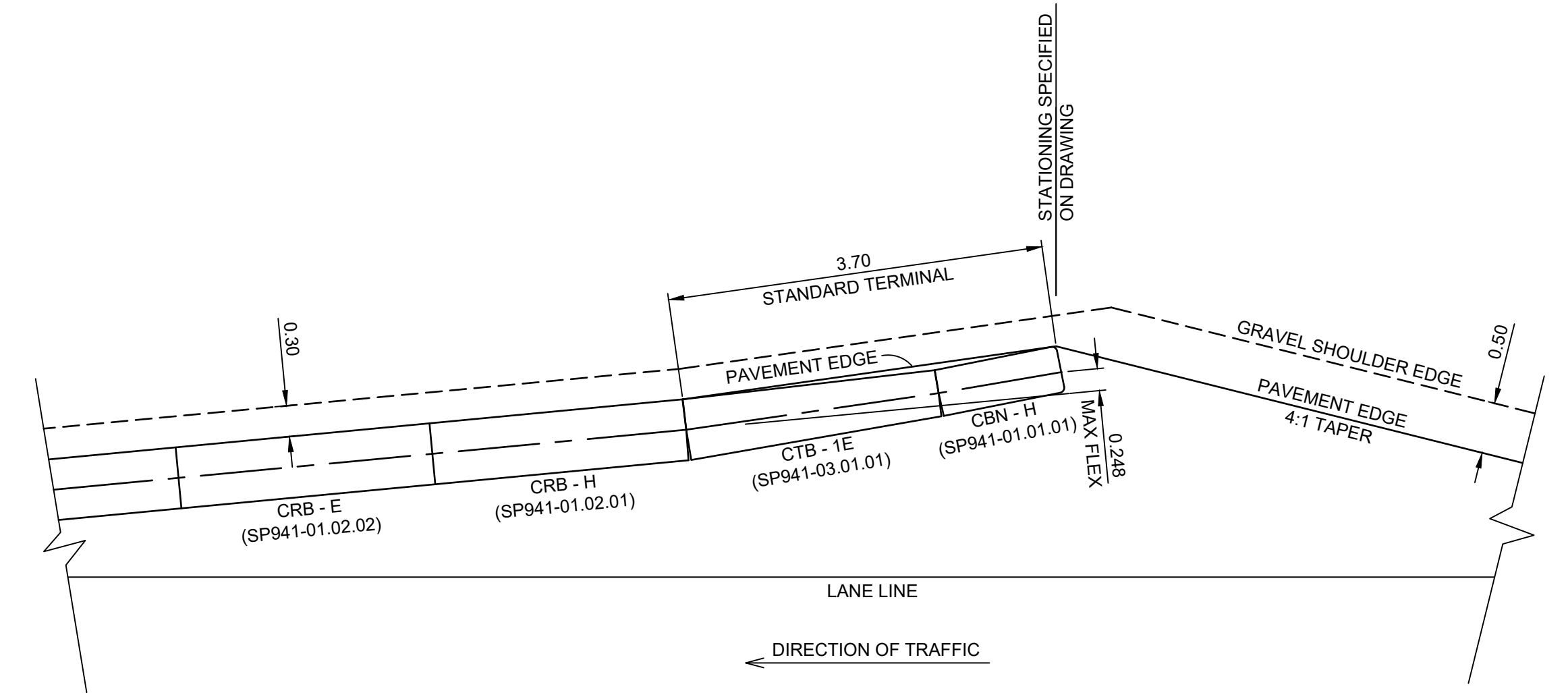
TYPICAL SECTIONS	
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD	
FRASER HIGHWAY TO PEARDONVILLE ROAD	
HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500	
SHEET 3 OF 3	
DESIGNED <u>H. ZHANG</u> DATE <u>2023-08-10</u>	QUALITY CONTROL <u>S. BIDULKA</u> DATE <u>2023-08-10</u>
ENGINEER OF RECORD <u>SHAUN BIDULKA, P. ENG.</u>	QUALITY ASSURANCE <u>P. TSANG</u> DATE <u>2023-08-10</u>
DATE <u>2023-08-10</u>	DRAWN <u>H. YIN</u> DATE <u>2023-08-10</u>
FILE NUMBER <u>2021-2305-00</u>	PROJECT NUMBER <u>12947-0002</u>
REG <u>1</u>	DRAWING NUMBER <u>R1-1010-303</u>



DETAIL N.T.S.
TYPICAL SURFACE SETTLEMENT GAUGE

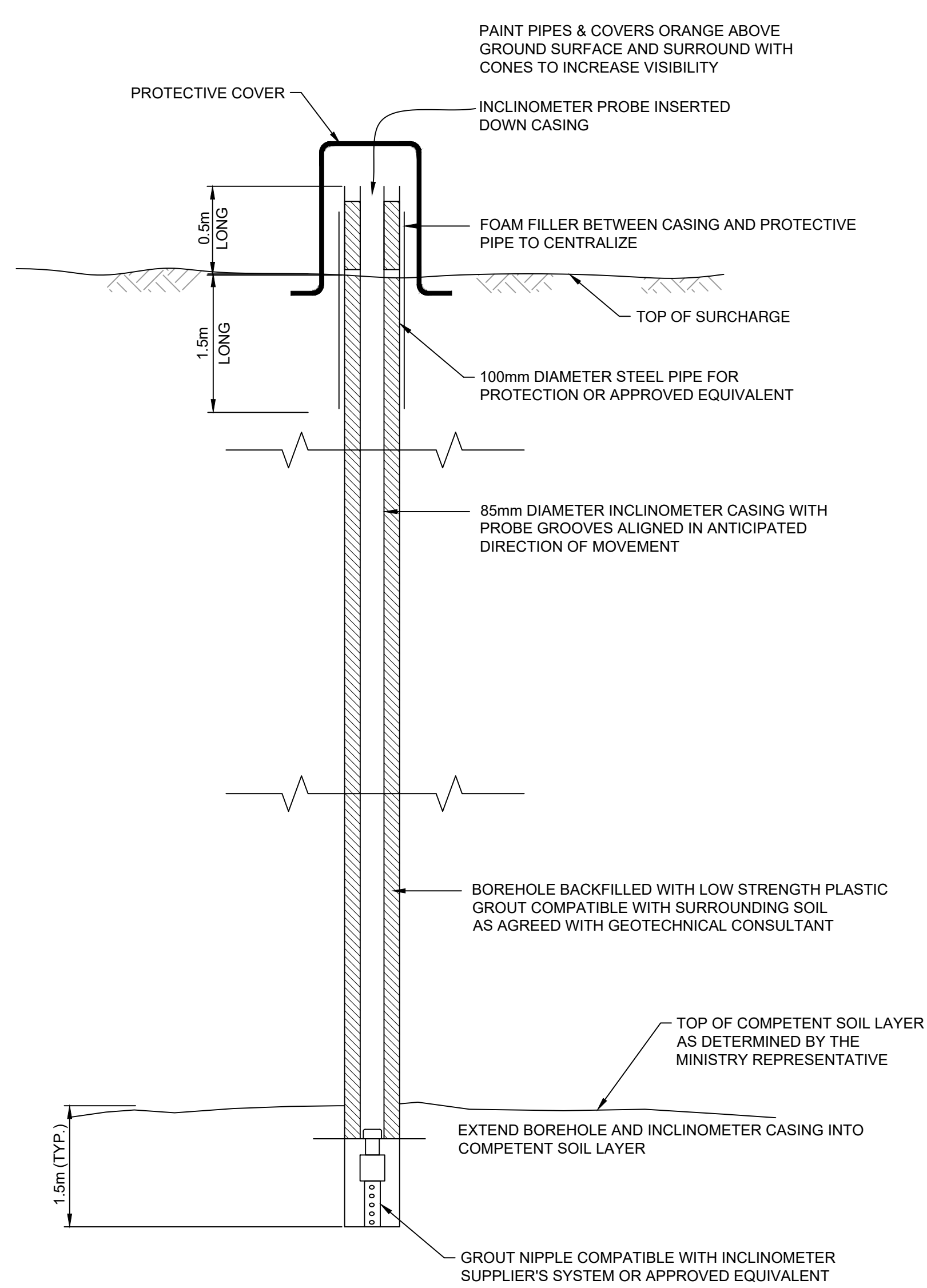


DETAIL N.T.S.
CONNECTION

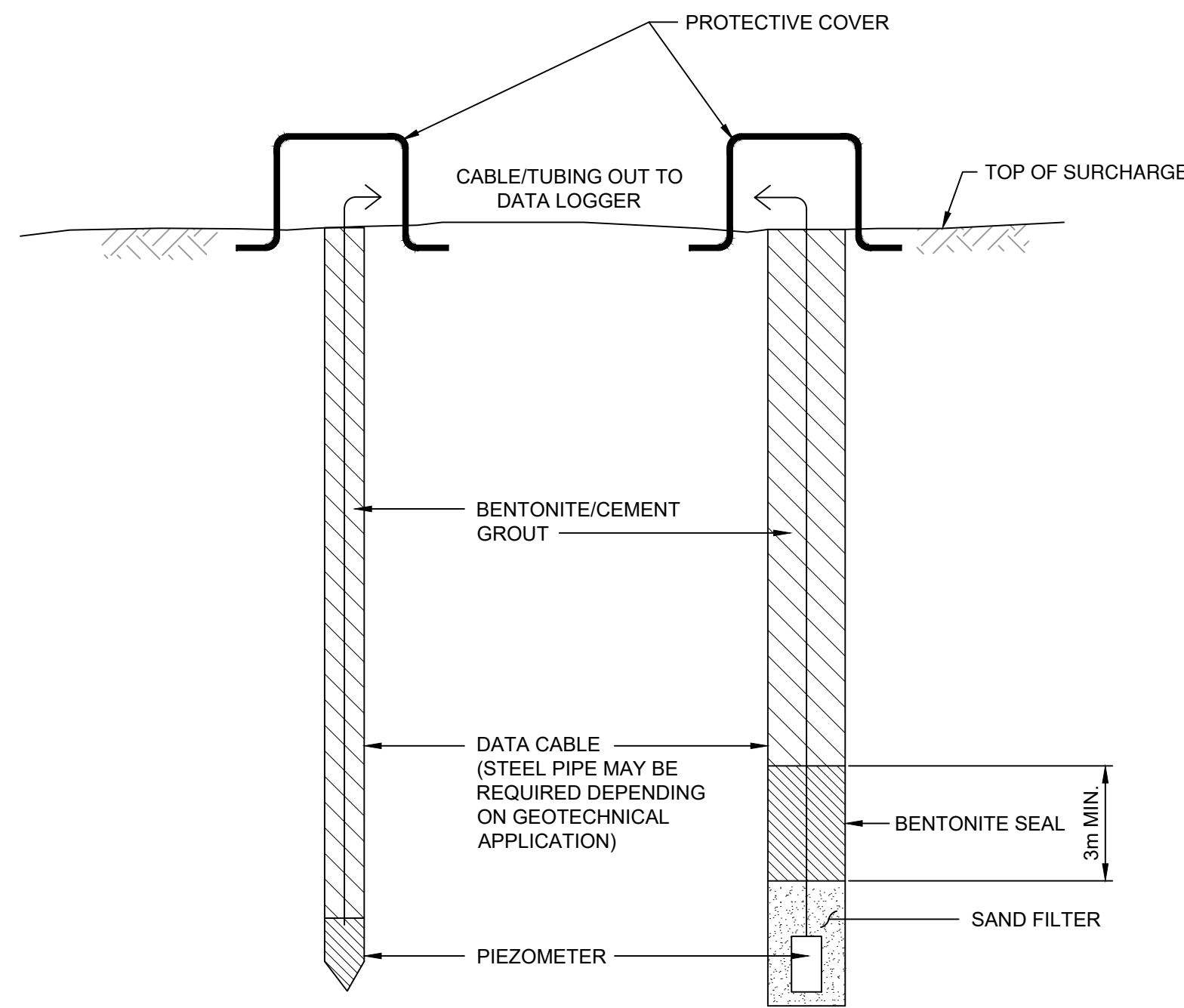


DETAIL 1:50
STANDARD TERMINAL TREATMENT

0 0.5 1.50 2.5m



DETAIL N.T.S.
TYPICAL INCLINOMETER



DETAIL N.T.S.
TYPICAL PIEZOMETER INSTALLED WITHIN BOREHOLES

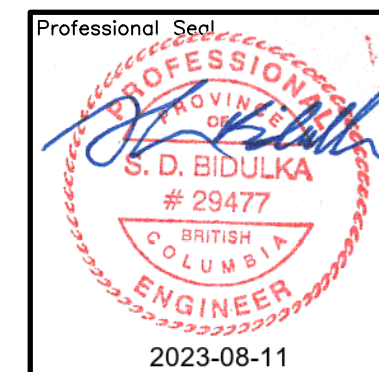
DETAIL N.T.S.
TYPICAL PIEZOMETER INSTALLED WITHIN BOREHOLES

GENERAL NOTES:

1. ALL DIMENSIONS SHOWN IN METRES UNLESS OTHERWISE NOTED.
2. REFER TO DRAWINGS R1-1010-101 TO 103 FOR LOCATION OF SETTLEMENT GAUGES.

PLOT DATE: 2023/08/09 01:23:05-00\civil\moder\MoTI_DD_Working_Drawings_Production\350_Details_Preload\R1-1010-351_352.dwg

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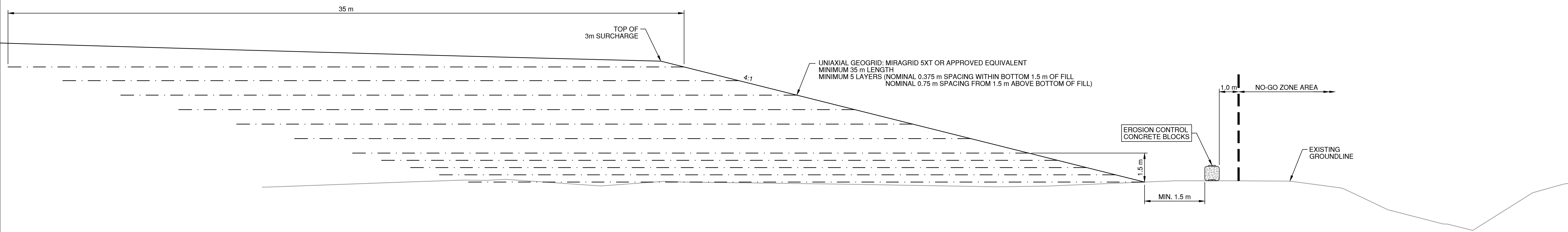
MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

SCALE AS SHOWN		CAD FILENAME R1-1010-351	
		PLOT DATE 2023-08-10	
REV	DATE	REVISIONS	NAME

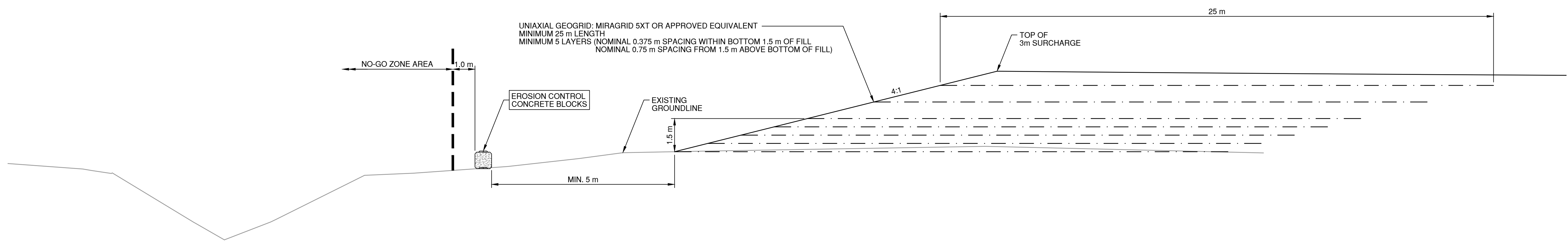
MISCELLANEOUS DETAILS - ROADWORKS
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
FRASER HIGHWAY TO PEARDONVILLE ROAD
SHEET 1 OF 2

DESIGNED H. ZHANG DATE 2023-08-10	QUALITY CONTROL S. BIDULKA DATE 2023-08-10
ENGINEER OF RECORD SHAUN BIDULKA, P. ENG.	QUALITY ASSURANCE P. TSANG DATE 2023-08-10
DATE 2023-08-10	DRAWN H. YIN DATE 2023-08-10
FILE NUMBER 2021-2305-00	PROJECT NUMBER 12947-0002
REG 1	DRAWING NUMBER R1-1010-351

PLOT DATE: 2023/08/10 G:\2021-2305-00\civil\model\MoTI_DD_Working_Drawings\DrawingProduction\350_Details\Preload\R1-1010-351_352.dwg



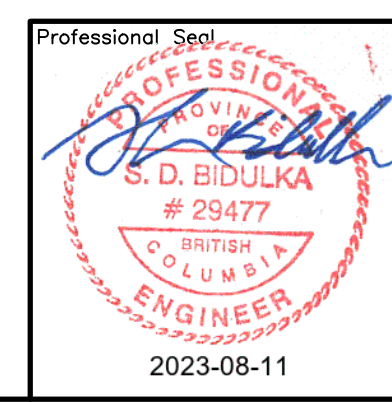
DETAIL 1:100
SURCHARGE END SLOPE - WEST OF FISHTRAP CREEK



DETAIL 1:100
SURCHARGE END SLOPE - EAST OF FISHTRAP CREEK

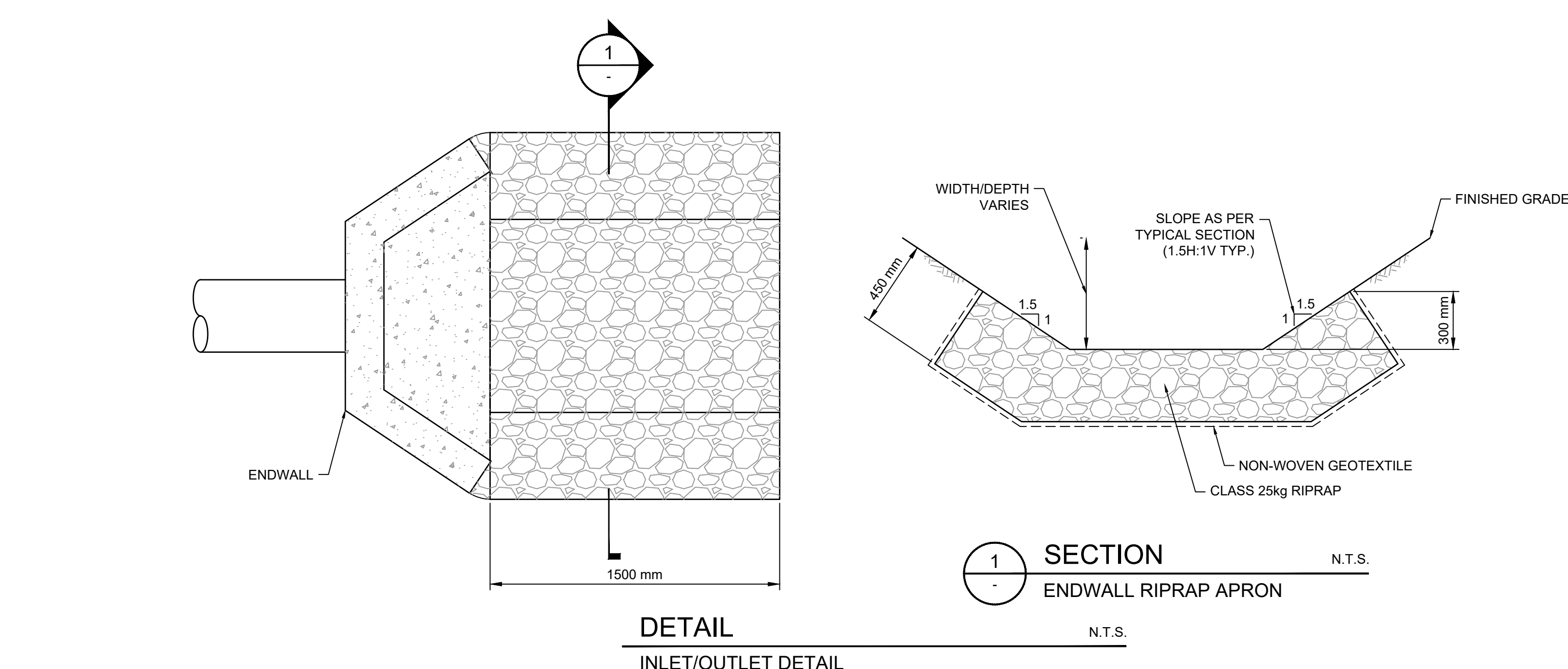
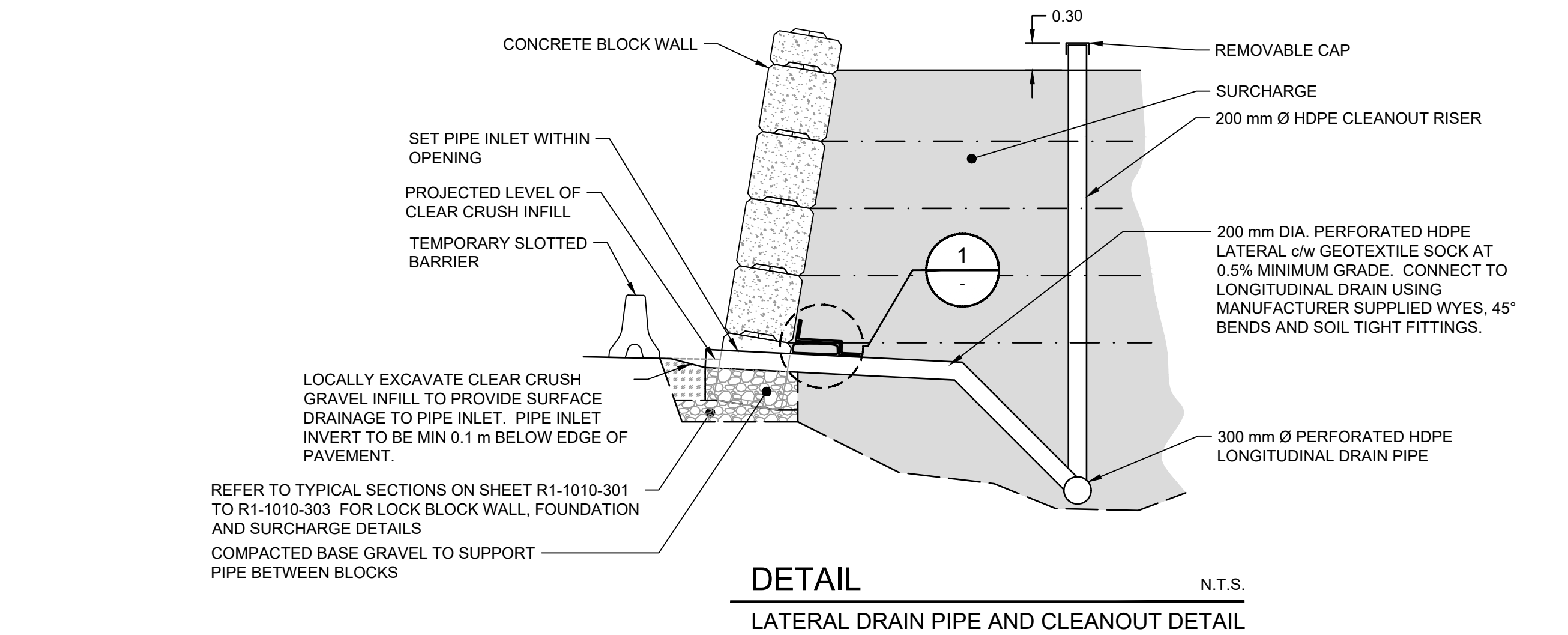
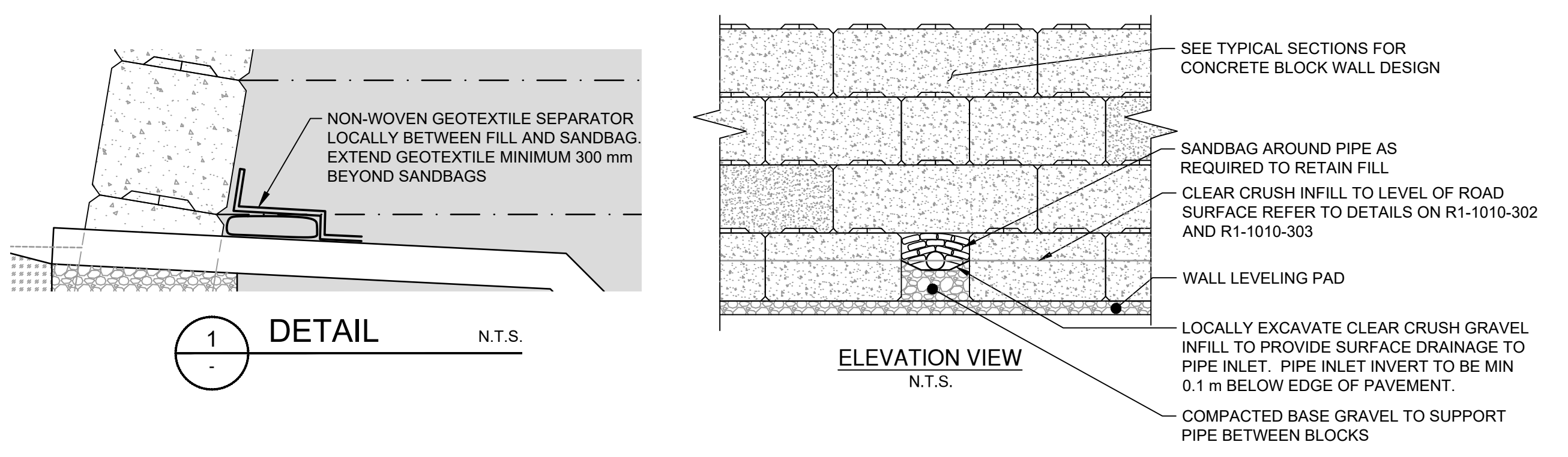
- GENERAL NOTES:**
- ALL DIMENSIONS SHOWN IN METRES UNLESS OTHERWISE NOTED.
 - REFER TO DRAWINGS R1-1010-101 FOR LOCATIONS.

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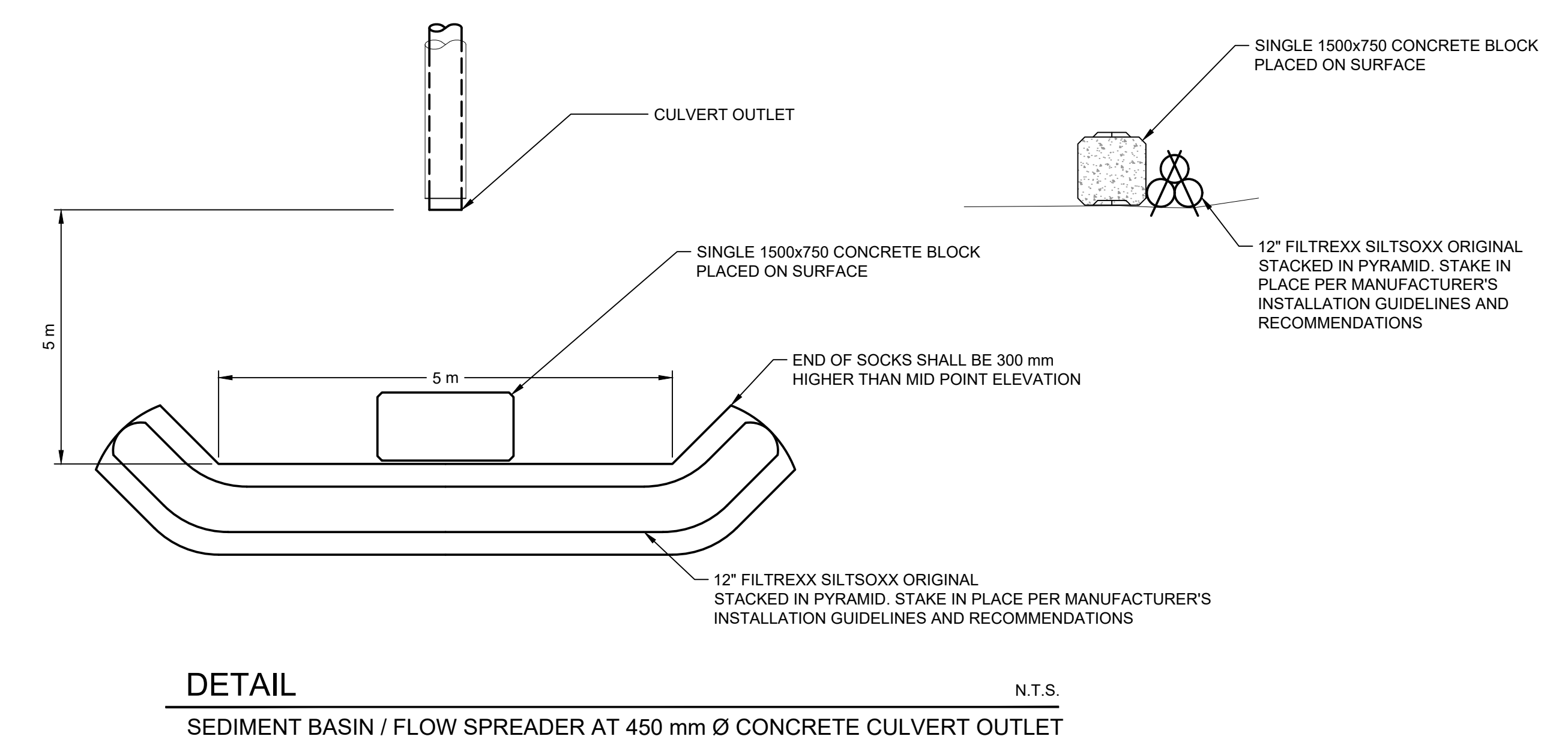
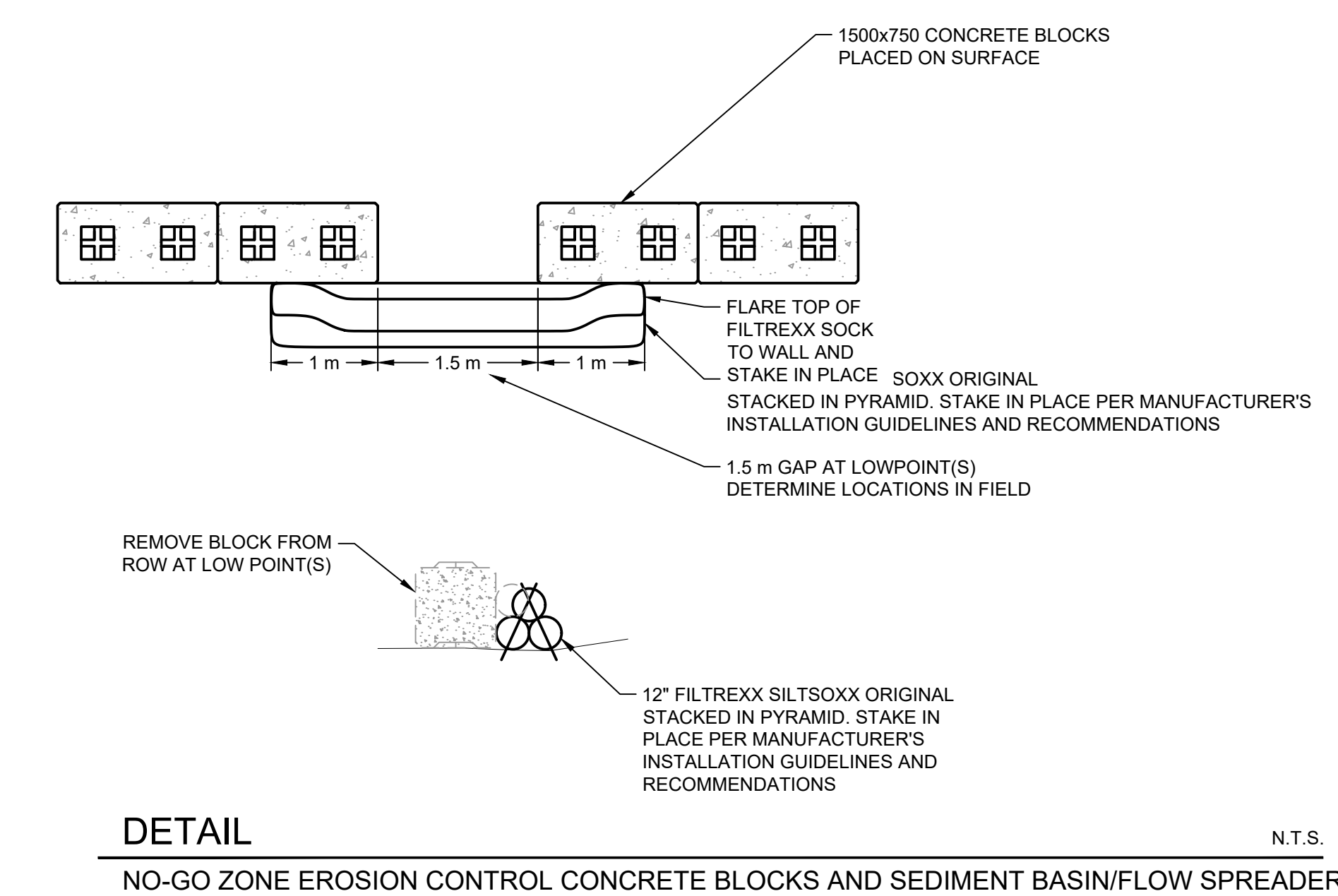
SCALE 0 1 1:100 5m CAD FILENAME R1-1010-352 PLOT DATE 2023-08-10		MISCELLANEOUS DETAILS - ROADWORKS HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD SHEET 2 OF 2	
DESIGNED H. ZHANG DATE 2023-08-10 QUALITY CONTROL S. BIDULKA DATE 2023-08-10 ENGINEER OF RECORD P. TSANG DATE 2023-08-10 DATE 2023-08-10 FILE NUMBER 2021-2305-00 PROJECT NUMBER 12947-0002 REG 1 DRAWING NUMBER R1-1010-352	SHAUN BIDULKA, P. ENG. ENGINEER OF RECORD DATE 2023-08-10 FILE NUMBER 2021-2305-00 PROJECT NUMBER 12947-0002 REG 1 DRAWING NUMBER R1-1010-352		

PLOT DATE: 2023/08/17 0:\2021-2305-00_\non-ceris_issuet\20230810_FishtrapCreek_Preload_Final_IFT\CAD\MoTI_DD_Working_Drawings_Preload
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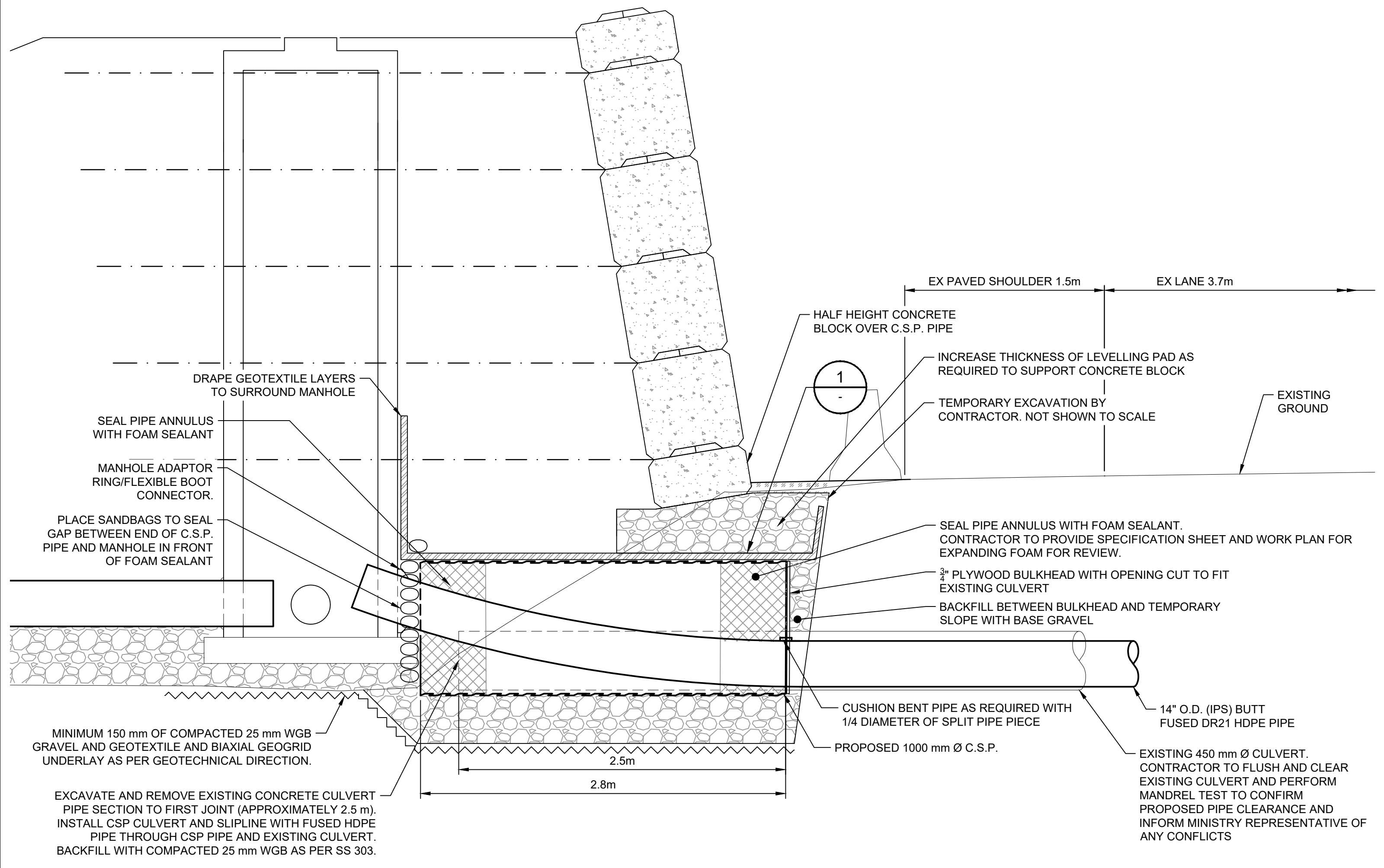
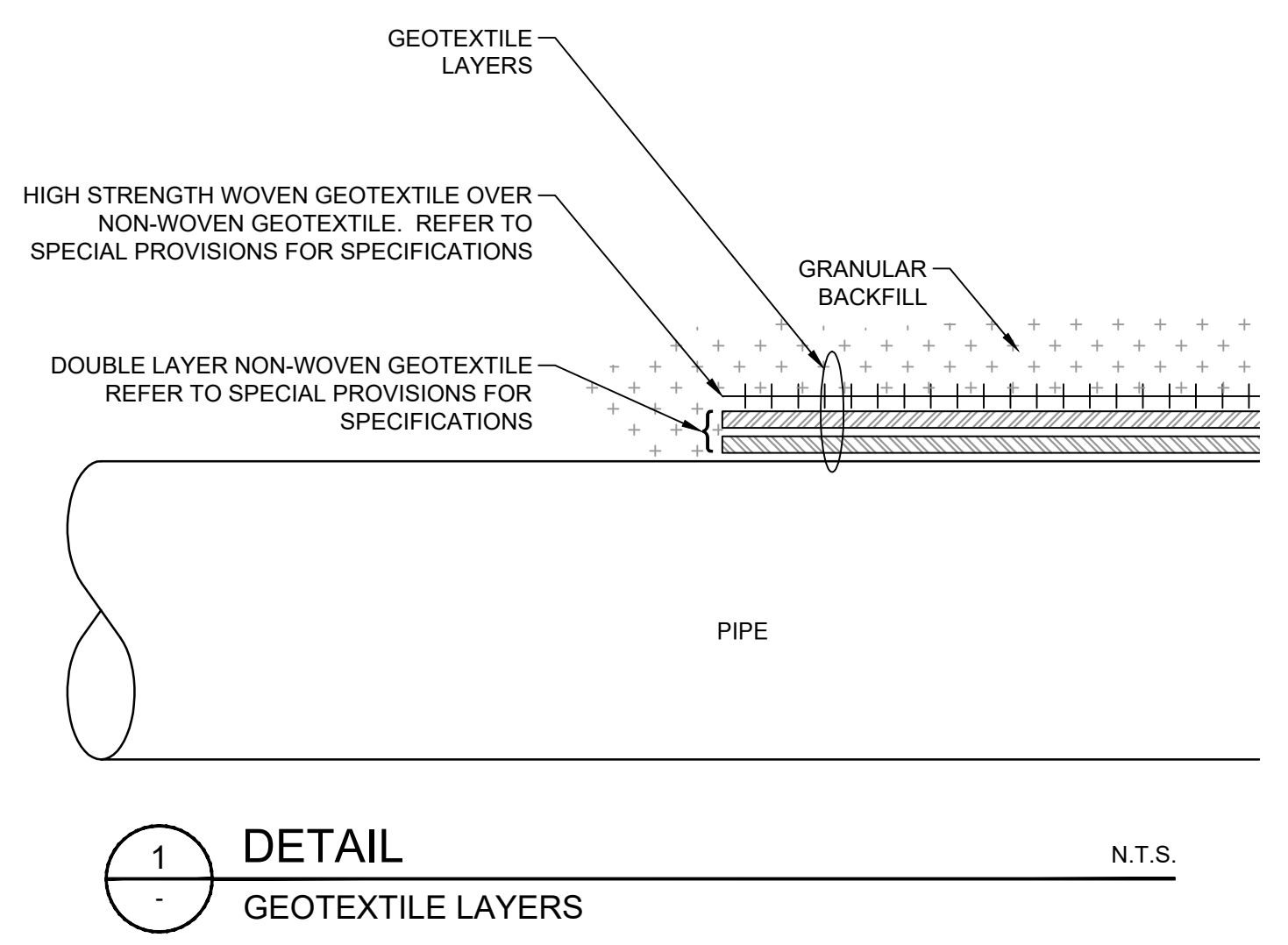
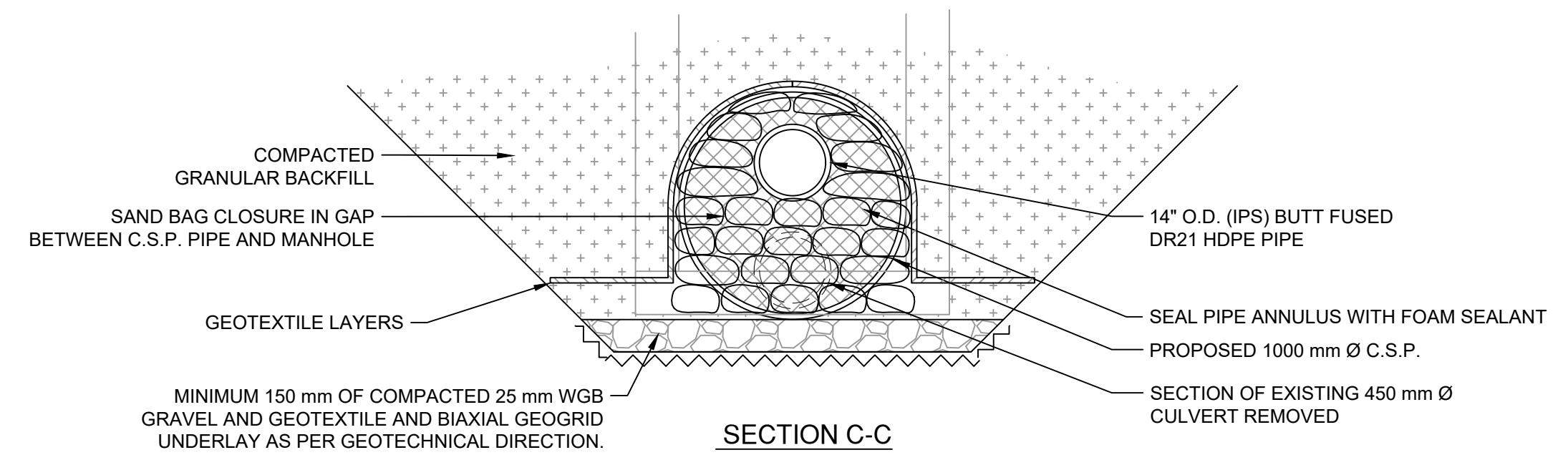
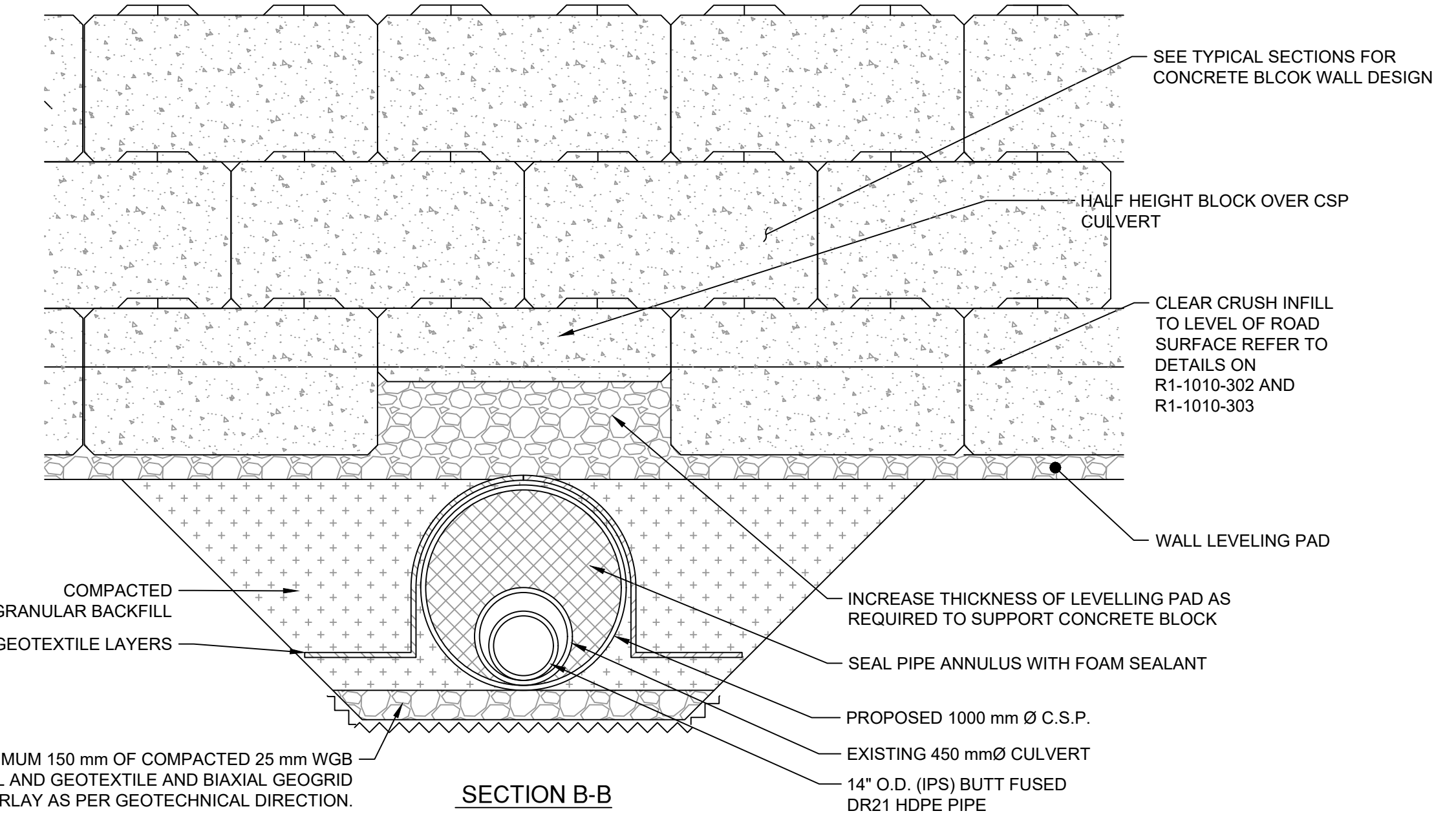
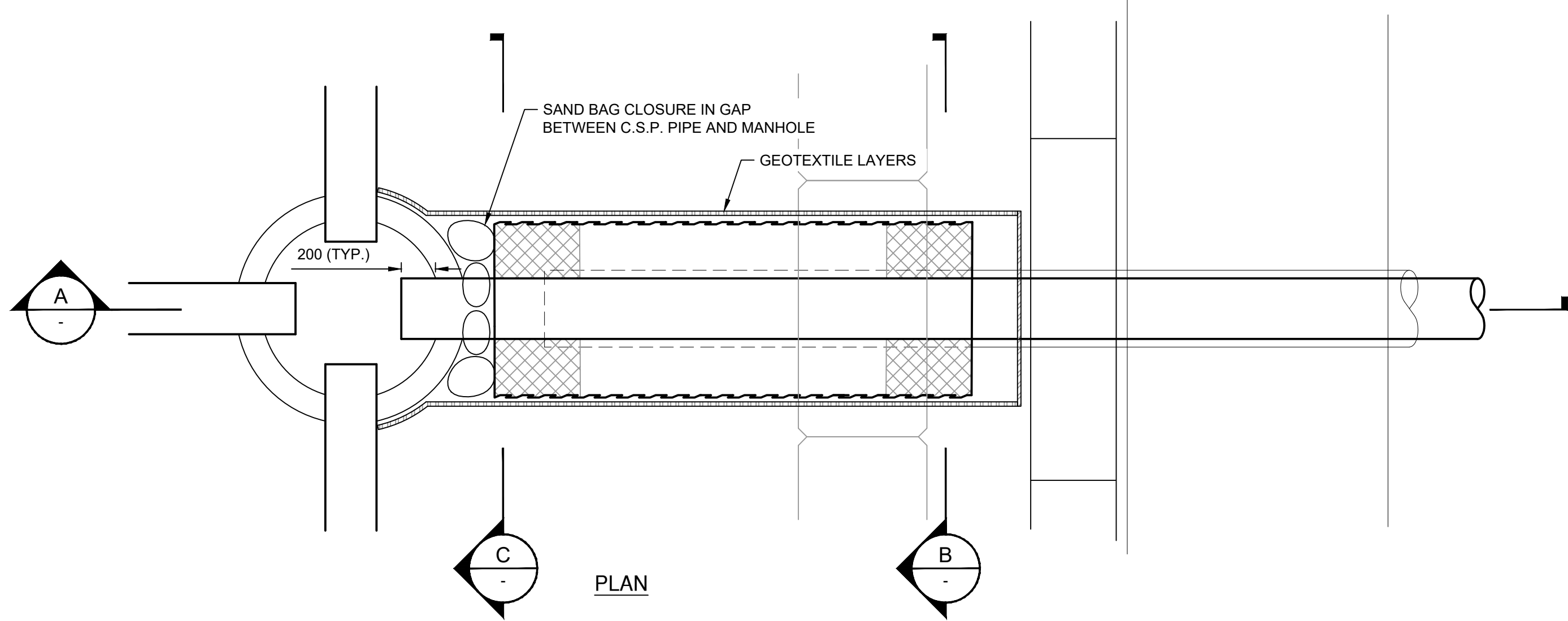
NOTES:
 1. ALL DIMENSIONS SHOWN IN METRES UNLESS OTHERWISE NOTED.

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 PERMIT NUMBER: 1000163
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Associated Engineering		MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE SOUTH COAST REGION HIGHWAY DESIGN AND GEOMATICS ENGINEERING	
SCALE AS SHOWN		CAD FILENAME R1-1010-361 PLOT DATE 2023-08-10	
MISCELLANEOUS DETAILS - DRAINAGE HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD SHEET 1 OF 2			
DESIGNED E. FINNEY DATE 2023-08-10 QUALITY CONTROL E. FINNEY DATE 2023-08-10 QUALITY ASSURANCE J. THIESSEN DATE 2023-08-10 DATE 2023-08-10 FILE NUMBER 2021-2305-00 PROJECT NUMBER 12947-0002 REG 1 DRAWING NUMBER R1-1010-361		ENGINEER OF RECORD ERIC FINNEY, P. ENG. DRAWN A. SHEWAN DATE 2023-08-10	

Professional Seal



SECTION A-A

DETAIL

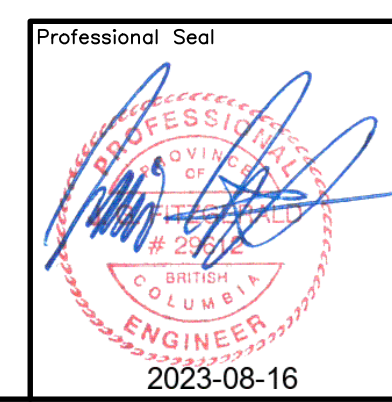
PIPE DRAIN EXTENSION THROUGH EXISTING 450Ø CULVERT

N.T.S.

NOTES:

1. ALL DIMENSIONS SHOWN IN METRES UNLESS OTHERWISE NOTED.

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PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



		CAD FILENAME R1-1010-362 PLOT DATE 2023-08-10	
SCALE	AS SHOWN		
REV	DATE	REVISIONS	NAME

		MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE SOUTH COAST REGION HIGHWAY DESIGN AND GEOMATICS ENGINEERING	
MISCELLANEOUS DETAILS - DRAINAGE HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD SHEET 2 OF 2			
ERIC FINNEY, P. ENG. ENGINEER OF RECORD		DESIGNED E. FINNEY DATE 2023-08-10 QUALITY CONTROL E. FINNEY DATE 2023-08-10 QUALITY ASSURANCE J. THIESSEN DATE 2023-08-10 DRAWN A. SHEWAN DATE 2023-08-10	
DATE	2023-08-10	PROJECT NUMBER	12947-0002
FILE NUMBER	2021-2305-00	REG	1
DRAWING NUMBER	R1-1010-362	REV	

PLOT DATE: 2023/08/10 0:\2021-2305-00\civil\model\MoTI_DD_Working_Drawings_Production\350_Details_Preload\R1-1010-361-362.dwg

PLOT DATE: 2023/08/10 G:\2021-2305-00\civil\model\MoTI_DD_Working_Drawings\DrawingProduction\350_Details\Preload\R1-1010-363.dwg

MANHOLE STRUCTURE DATA						
NAME	NORTHING	EASTING	STATION	O/S	SIZE	INVERTS
MH 1-3	2433327.764	546333.104	2042+33.513	-6.265	1050mmØ	NW 300 mm Ø 58.290 In NE 300 mm Ø 58.240 Out
MH 1-5	2433347.871	546346.056	2542+34.077	8.126	1050mmØ	NW 300 mm Ø 58.210 In SW 300 mm Ø 58.160 Out
MH 2-2	2433175.482	546569.026	2045+14.312	-6.041	1050mmØ	NE 300 mm Ø 57.400 In SW 375 mm Ø 57.350 Out NW 300 mm Ø 57.400 In SE 300 mm Ø 57.400 In
MH 3-2	2433198.246	546583.693	2545+14.879	5.254	1050mmØ	SW 300 mm Ø 57.680 Out NW 300 mm Ø 57.730 In SE 300 mm Ø 57.730 In

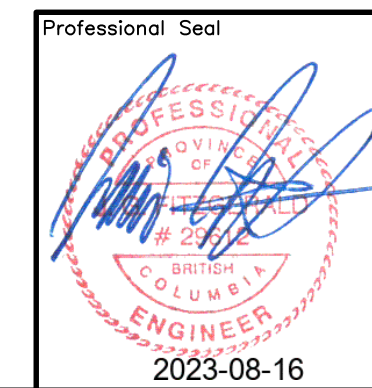
END OF LINE CLEANOUTS STRUCTURE DATA						
NAME	NORTHING	EASTING	STATION	O/S	SIZE	INVERTS
MHCO 1-4	2433386.204	546248.632	2041+30.853	-9.669	200 mm Ø	SE 300 mm Ø 58.820 Out
MHCO 1-8	2433391.480	546269.683	2541+46.262	12.836	200 mm Ø	SE 300 mm Ø 58.562 Out
MHCO 2-1	2433291.617	546389.105	2043+00.164	-6.210	200 mm Ø	SE 300 mm Ø 58.590 Out
MHCO 3-1	2433314.198	546402.533	2542+99.791	5.864	200 mm Ø	SE 300 mm Ø 58.590 Out



ENDWALL STRUCTURE DATA						
NAME	NORTHING	EASTING	STATION	O/S	Description	INVERTS
EW 1-4	2433332.633	546336.233	2042+33.508	-12.053	ENDWALL	300 mm Ø 58.211
EW 1-6	2433340.328	546341.193	2042+33.513	-21.207	ENDWALL	300 mm Ø 58.115
EW 2-3	2433061.326	546744.502	2047+23.649	-5.099	ENDWALL	300 mm Ø 58.736
EW 2-4	2433024.889	546803.738	2047+93.179	-6.573	ENDWALL	300 mm Ø 59.005
EW 2-5	2432896.008	547022.195	2050+46.627	-16.496	ENDWALL	300 mm Ø 62.098
EW 3-3	2433096.651	546743.627	2547+04.351	4.140	ENDWALL	300 mm Ø 58.781
EW 3-4	2433047.210	546817.942	2547+93.600	5.485	ENDWALL	300 mm Ø 59.011
EW 3-5	2432896.194	547051.199	2550+71.481	6.145	ENDWALL	300 mm Ø 61.436

NOTES:

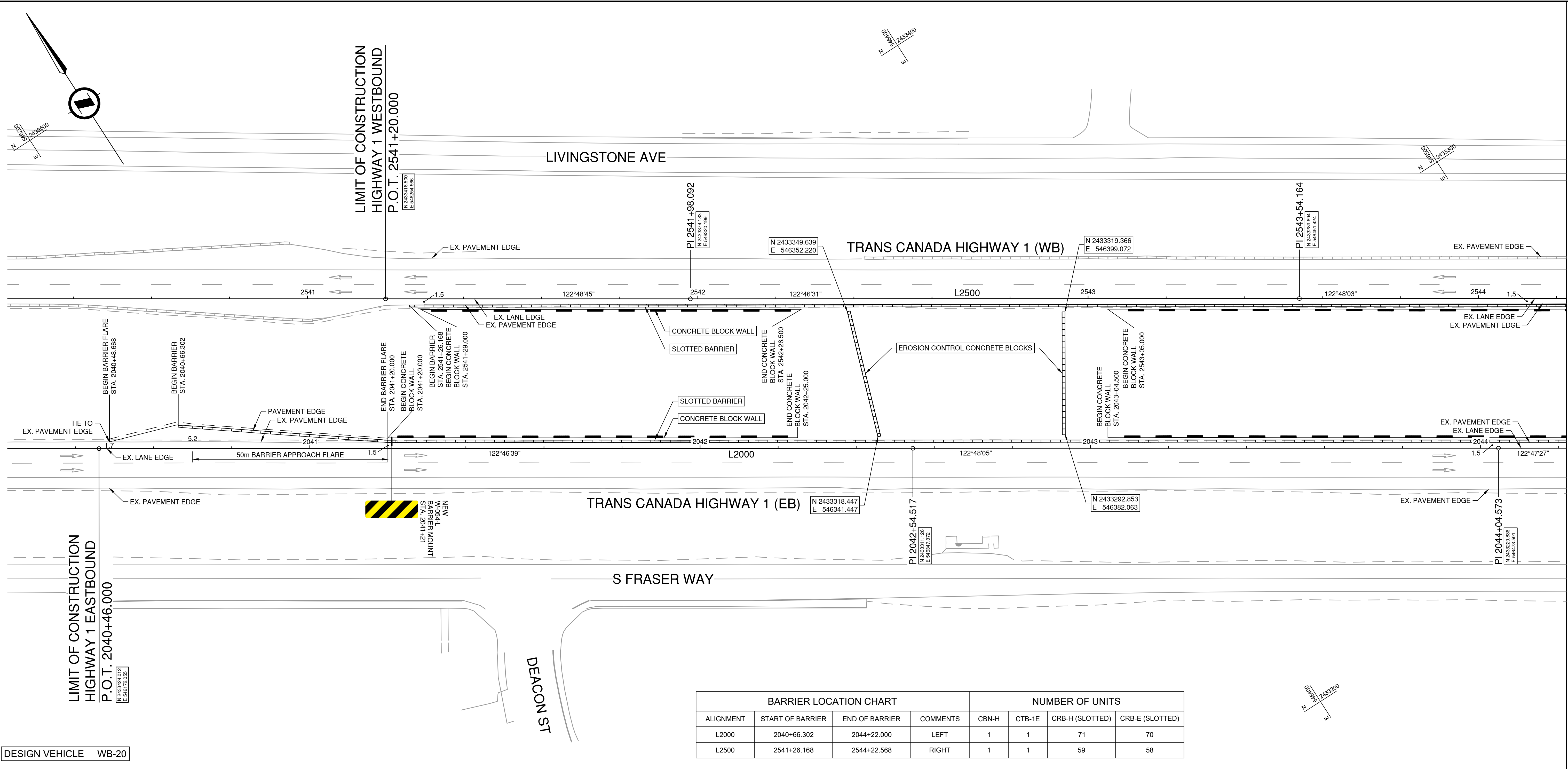
1. REFER TO DWGS. R1-1010-101 TO 103 AND R1-1010-361 FOR MANHOLE SPECIFICATIONS.
2. RIM AND INVERT ELEVATIONS FOR MANHOLES AS SHOWN STORM SEWER PROFILES.
3. REFER TO DWG. R1-1010-361 FOR CLEANOUT DETAILS.
4. REFER TO DWG. R1-1010-361 FOR HEADWALL DETAILS.

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PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



				MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE SOUTH COAST REGION HIGHWAY DESIGN AND GEOMATICS ENGINEERING	
SCALE N/A		CAD FILENAME R1-1010-363		MANHOLE TABLES HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD SHEET 1 OF 1	
		PLOT DATE 2023-08-10			
REV	DATE	REVISIONS	NAME	DESIGNED <u>E. FINNEY</u> DATE <u>2023-08-10</u> QUALITY CONTROL <u>E. FINNEY</u> DATE <u>2023-08-10</u> QUALITY ASSURANCE <u>J. FITZGERALD</u> DATE <u>2023-08-10</u> ENGINEER OF RECORD <u>ERIC FINNEY, P. ENG.</u> DATE <u>2023-08-10</u> DRAWN <u>A. SHEWAN</u> DATE <u>2023-08-10</u>	
2021-2305-00		12947-0002		REG 1 DRAWING NUMBER R1-1010-363	

PLOT DATE: 2023/08/09 G:\2021-2305-00\civil\model\Drawings\Drawings\Production\400_Geometrics\Drawing\R1-1010-401_403.dwg



DESIGN VEHICLE WB-20

DESIGN SPEED L2000 - HIGHWAY 1 EASTBOUND 100 km/h
L2500 - HIGHWAY 1 WESTBOUND 100 km/h

GENERAL NOTES:
1. HOLLOW ARROWS INDICATE TRAFFIC DIRECTION ONLY AND ARE NOT PAVEMENT MARKINGS.

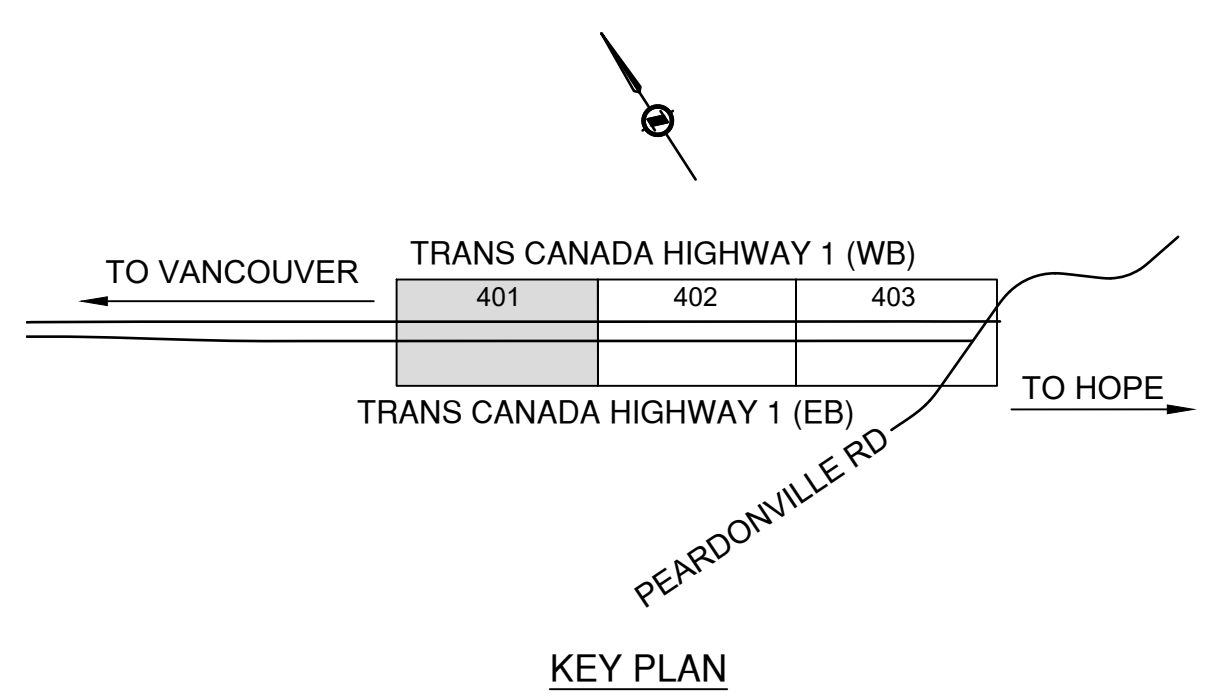
FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002

FOR PLAN
SEE DWG. No. R1-1010-101

FOR PROFILES
SEE DWG. No. R1-1010-201 & 203

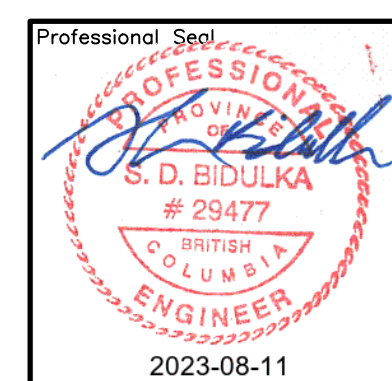
FOR TYPICAL SECTIONS
SEE DWG. No. R1-1010-301 TO 302

FOR SPOT ELEVATIONS
SEE DWG. No. R1-1010-501



ALIGNMENT	BARRIER LOCATION CHART			NUMBER OF UNITS			
	START OF BARRIER	END OF BARRIER	COMMENTS	CBN-H	CTB-1E	CRB-H (SLOTTED)	CRB-E (SLOTTED)
L2000	2040+66.302	2044+22.000	LEFT	1	1	71	70
L2500	2541+26.168	2544+22.568	RIGHT	1	1	59	58

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		SCALE 0 5 1:500 25m	
		CAD FILENAME R1-1010-401	PLOT DATE 2023-08-10
REV	DATE	REVISIONS	NAME

BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

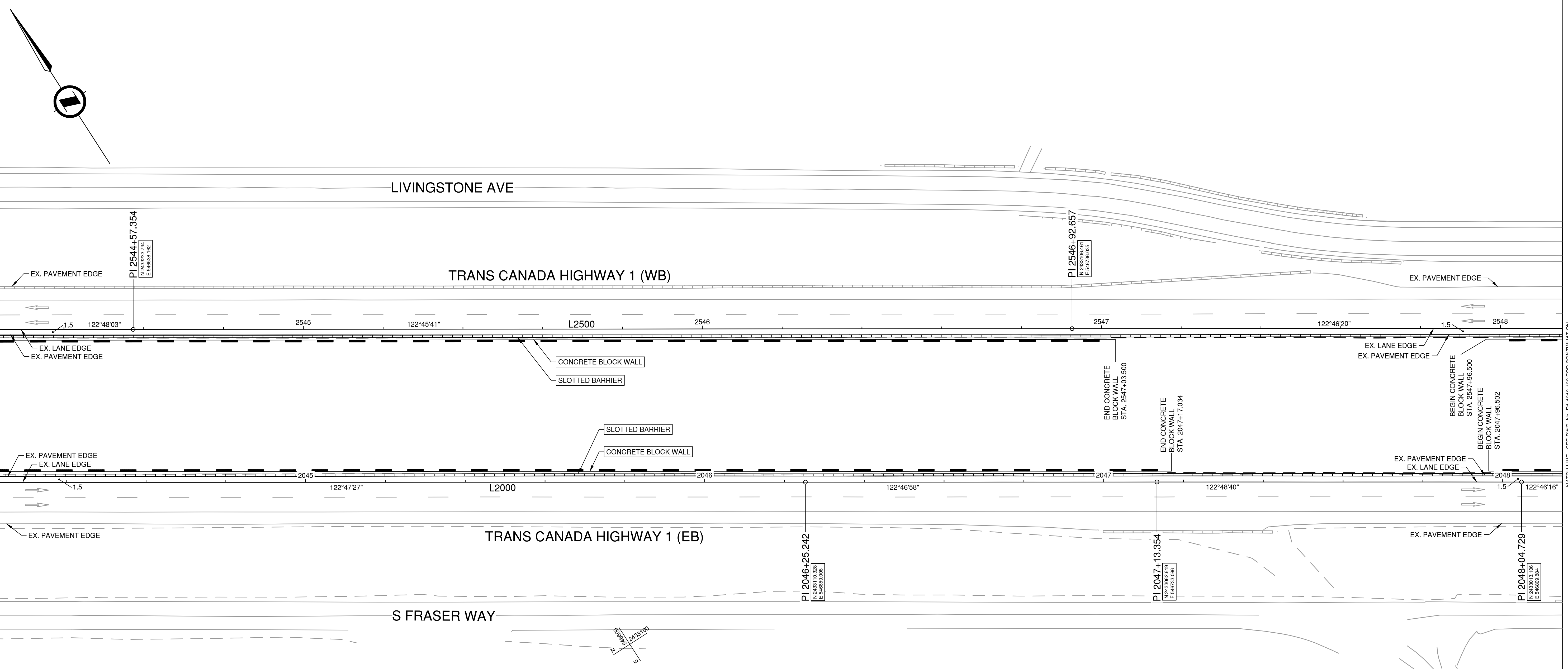
GEOMETRICS AND LANING / SIGNS
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
FRASER HIGHWAY TO PEARDOVILLE ROAD
HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500
STA. 2040+46.000 TO STA. 2044+22.000 / STA. 2541+20.000 TO STA. 2544+22.568

DESIGNED: H. ZHANG DATE: 2023-08-10
QUALITY CONTROL: S. BIDULKA DATE: 2023-08-10
ENGINEER OF RECORD: P. TSANG DATE: 2023-08-10
DATE: 2023-08-10
DRAWN: H. YIN DATE: 2023-08-10

SHAUN BIDULKA, P. ENG.
ENGINEER OF RECORD

FILE NUMBER 2021-2305-00	PROJECT NUMBER 12947-0002	REG 1	DRAWING NUMBER R1-1010-401	REV
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PLOT DATE: 2023/08/08 G:\2021-2305-00\civil\model\Drawings\Production\400_Geometrics\laning\Preload\R1-1010-401-403.dwg

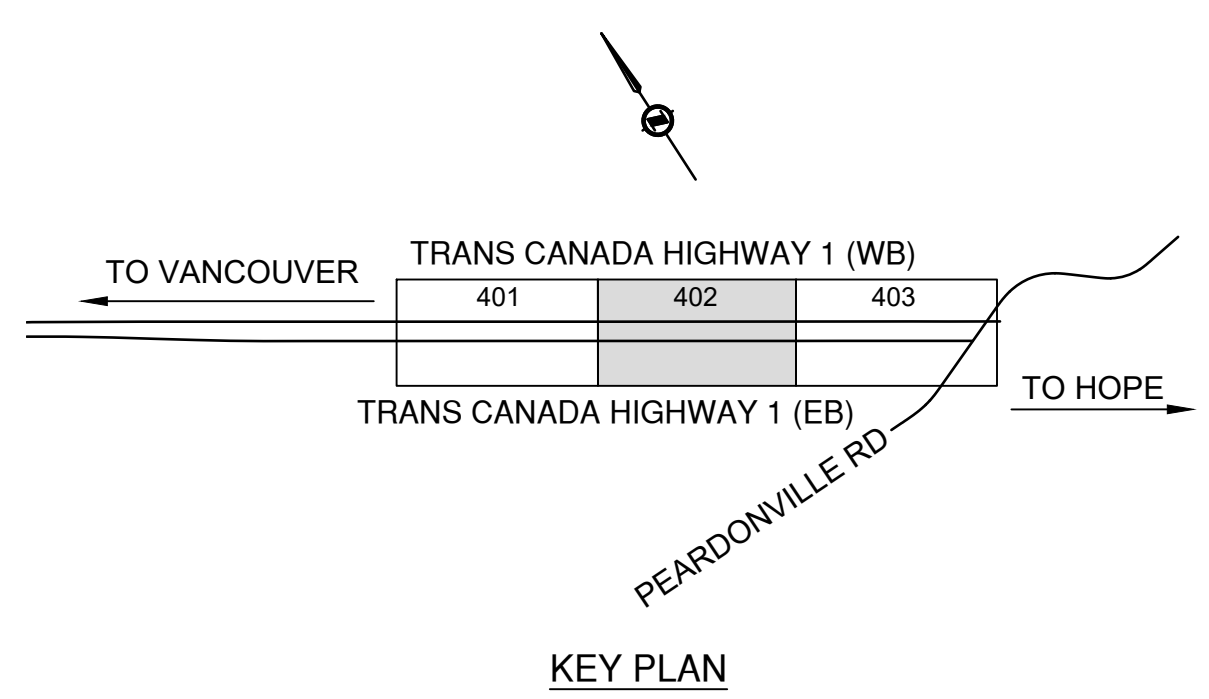


ALIGNMENT	BARRIER LOCATION CHART			NUMBER OF UNITS			
	START OF BARRIER	END OF BARRIER	COMMENTS	CBN-H	CTB-1E	CRB-H (SLOTTED)	CRB-E (SLOTTED)
L2000	2044+22.000	2048+15.000	LEFT	-	-	78	79
L2500	2544+22.568	2548+15.555	RIGHT	-	-	78	79

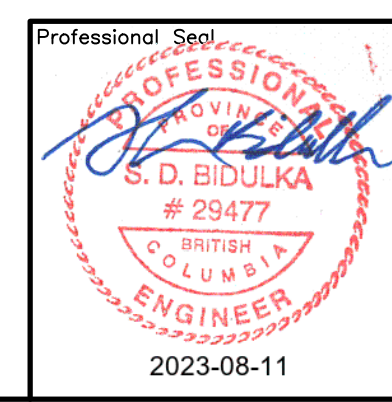
DESIGN VEHICLE WB-20

DESIGN SPEED L2000 - HIGHWAY 1 EASTBOUND 100 km/h
L2500 - HIGHWAY 1 WESTBOUND 100 km/h

- GENERAL NOTES:
- FOR GENERAL NOTES SEE DWG. No. R1-1010-401.
- FOR SURVEY CONTROL SEE DWG. No. R1-1010-002
- FOR PLAN SEE DWG. No. R1-1010-102
- FOR PROFILES SEE DWG. No. R1-1010-201 TO 204
- FOR TYPICAL SECTIONS SEE DWG. No. R1-1010-303
- FOR SPOT ELEVATIONS SEE DWG. No. R1-1010-502



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		SCALE 0 5 1:500 25m	
		CAD FILENAME R1-1010-402 PLOT DATE 2023-08-10	
REV	DATE	REVISIONS	NAME

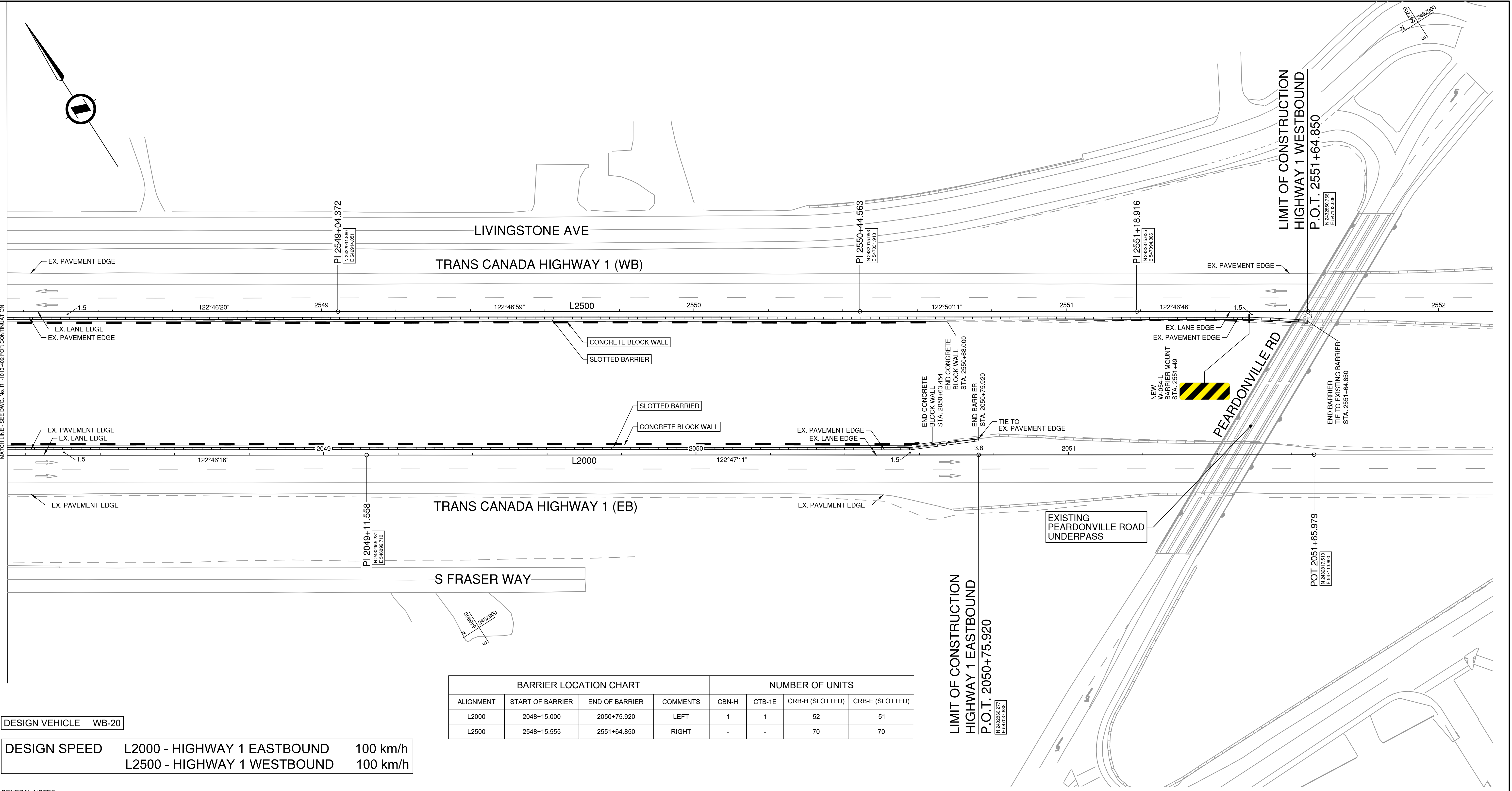
BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

GEOMETRICS AND LANING / SIGNS
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
FRASER HIGHWAY TO PEARDONVILLE ROAD
HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500
STA. 2044+22.000 TO STA. 2048+15.000 / STA. 2544+22.568 TO STA. 2548+15.555

DESIGNED H. ZHANG DATE 2023-08-10
QUALITY CONTROL S. BIDULKA DATE 2023-08-10
QUALITY ASSURANCE P. TSANG DATE 2023-08-10
ENGINEER OF RECORD SHAWN BIDULKA, P. ENG.
DATE 2023-08-10
DRAWN H. YIN DATE 2023-08-10

FILE NUMBER 2021-2305-00 PROJECT NUMBER 12947-0002 REG 1 DRAWING NUMBER R1-1010-402 REV

PLOT DATE: 2023/08/10 G:\2021-2305-00\civil\model\NoTI_DD_Working_Drawings\DrawingProduction\400_Geometrics\laning\Preload\R1-1010-401_403.dwg

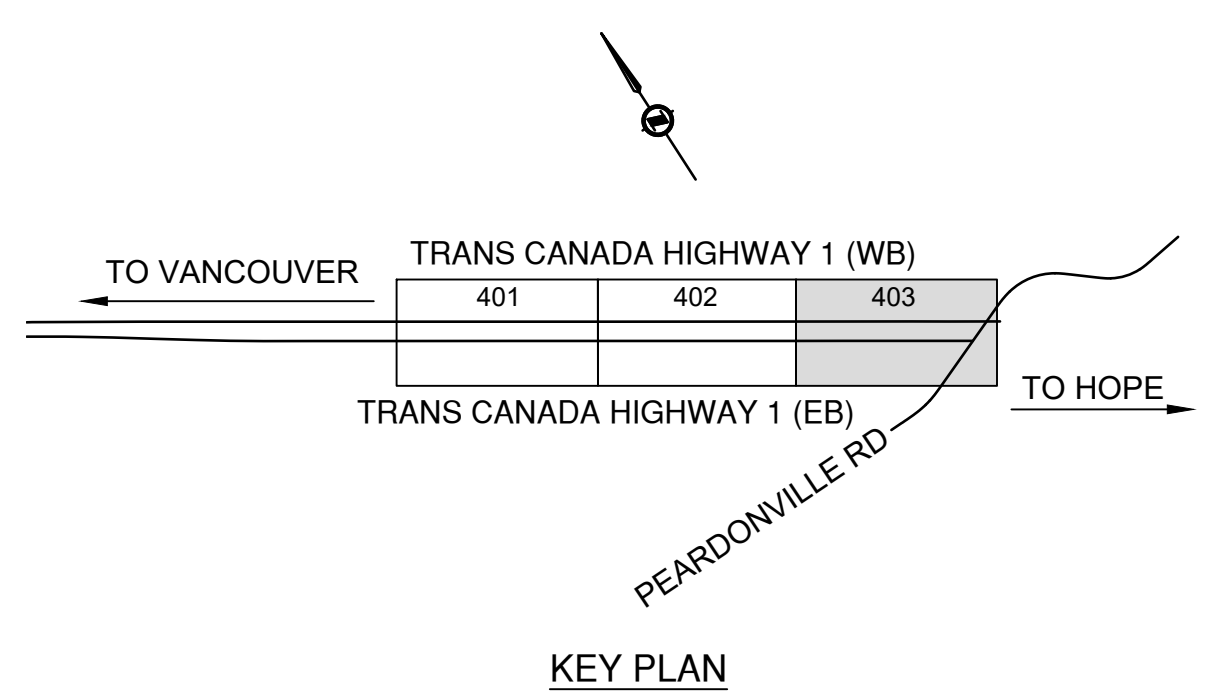


DESIGN VEHICLE WB-20

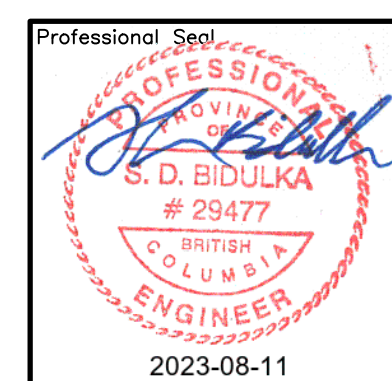
DESIGN SPEED L2000 - HIGHWAY 1 EASTBOUND 100 km/h
L2500 - HIGHWAY 1 WESTBOUND 100 km/h

ALIGNMENT	BARRIER LOCATION CHART			NUMBER OF UNITS			
	START OF BARRIER	END OF BARRIER	COMMENTS	CBN-H	CTB-1E	CRB-H (SLOTTED)	CRB-E (SLOTTED)
L2000	2048+15.000	2050+75.920	LEFT	1	1	52	51
L2500	2548+15.555	2551+64.850	RIGHT	-	-	70	70

- GENERAL NOTES:
- FOR GENERAL NOTES SEE DWG. No. R1-1010-401.
- FOR SURVEY CONTROL SEE DWG. No. R1-1010-002
 - FOR PLAN SEE DWG. No. R1-1010-103
 - FOR PROFILES SEE DWG. No. R1-1010-202 & 204
 - FOR TYPICAL SECTIONS SEE DWG. No. R1-1010-303
 - FOR SPOT ELEVATIONS SEE DWG. No. R1-1010-503



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SCALE 0 5 1:500 25m

CAD FILENAME R1-1010-403
PLOT DATE 2023-08-10

REV	DATE	REVISIONS	NAME

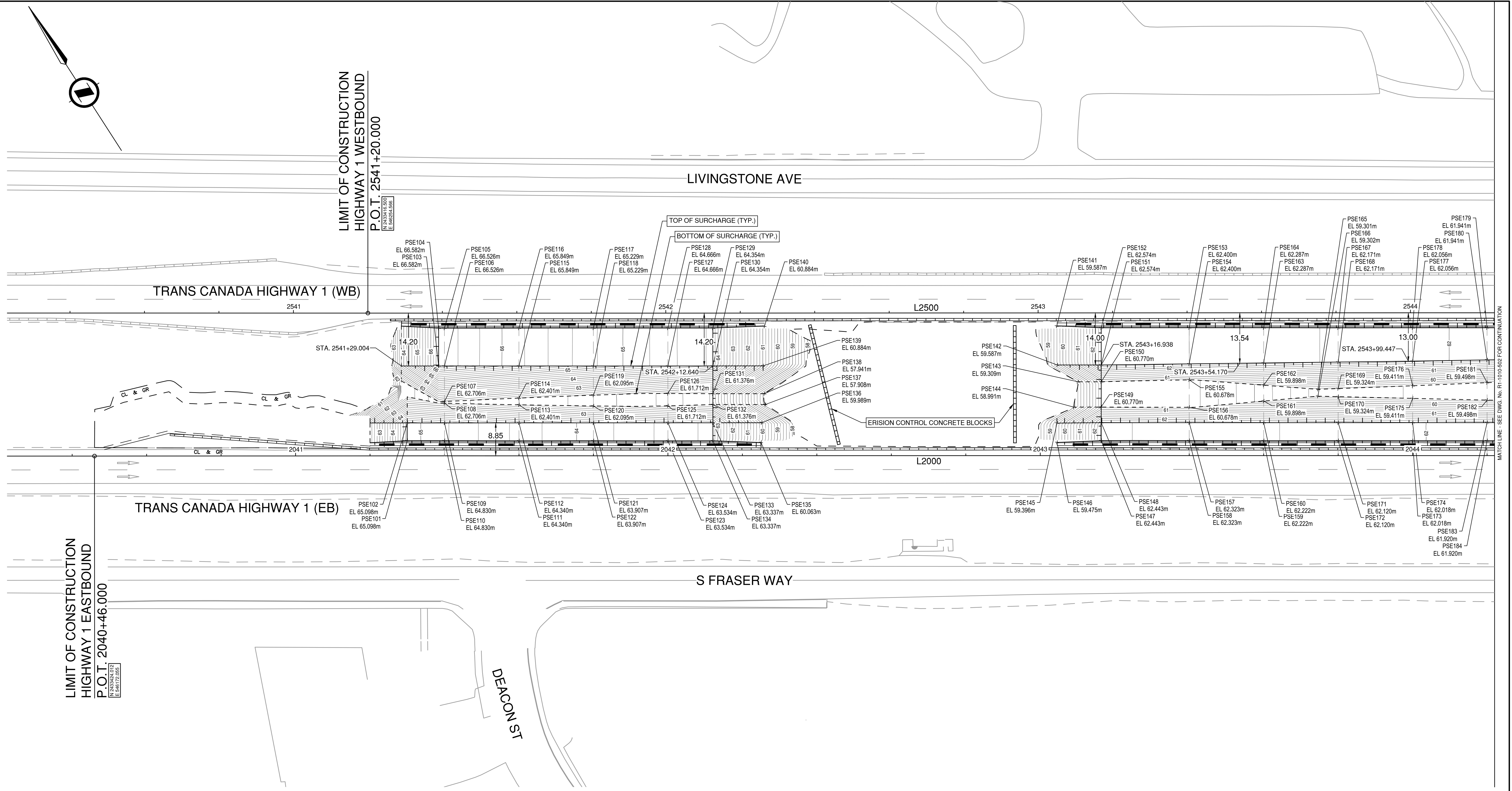
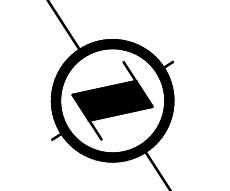
BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
SOUTH COAST REGION
HIGHWAY DESIGN AND GEOMATICS ENGINEERING

GEOMETRICS AND LANING / SIGNS
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD
FRASER HIGHWAY TO PEARDONVILLE ROAD
HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500
STA. 2048+15.000 TO STA. 2050+75.920 / STA. 2548+15.555 TO STA. 2551+64.850

DESIGNED H. ZHANG DATE 2023-08-10
QUALITY CONTROL S. BIDULKA DATE 2023-08-10
ENGINEER OF RECORD SHAUN BIDULKA, P. ENG. DATE 2023-08-10
QUALITY ASSURANCE P. TSANG DATE 2023-08-10
DRAWN H. YIN DATE 2023-08-10

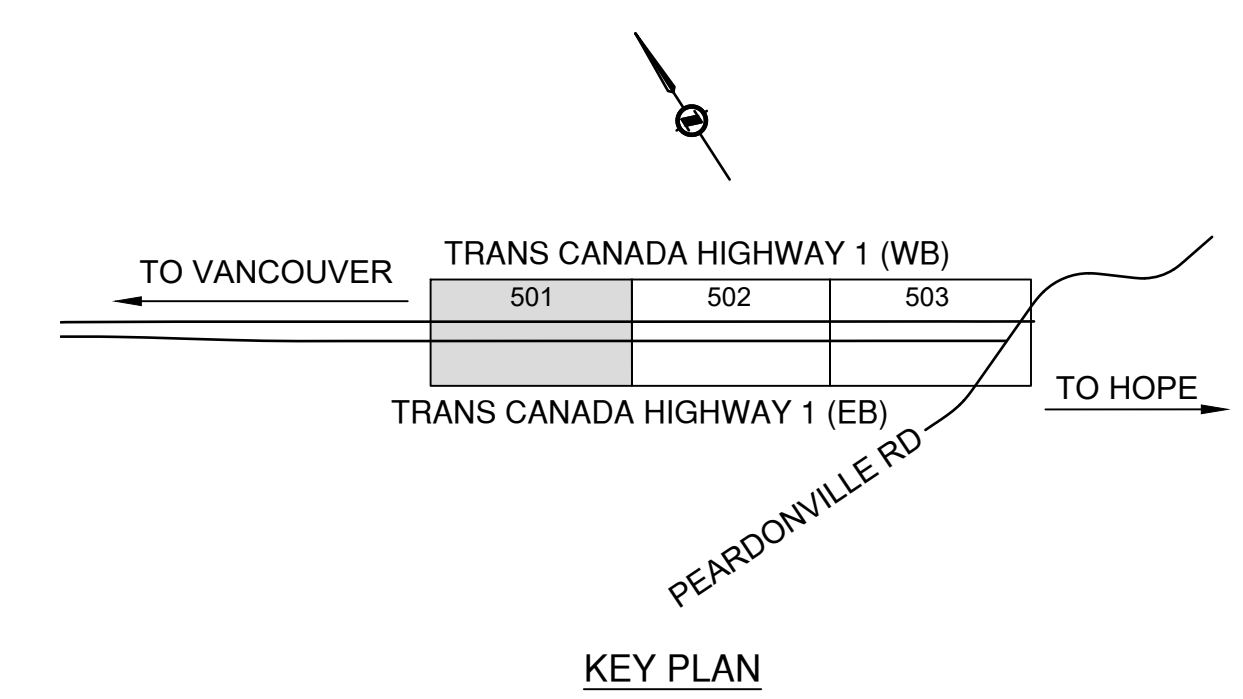
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FILE NUMBER 2021-2305-00
PROJECT NUMBER 12947-0002
REG 1
DRAWING NUMBER R1-1010-403
REV

PLOT DATE: 2023/08/10 0:23:05-00.civil model\Drawings\Drawings\Production\500_SpotElevations\501-1010-501_503.dwg



GENERAL NOTES:
 1. FOR SPOT ELEVATIONS TABLES, REFER TO DWG. No. R1-1010-504.

- FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002
- FOR PLAN
SEE DWG. No. R1-1010-101
- FOR PROFILES
SEE DWG. No. R1-1010-201 & 203
- FOR TYPICAL SECTIONS
SEE DWG. No. R1-1010-301 TO 302
- FOR GEOMETRICS AND LANING / SIGNS
SEE DWG. No. R1-1010-401



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Associated Engineering

CAD FILENAME: R1-1010-501
 PLOT DATE: 2023-08-10



REV	DATE	REVISIONS	NAME

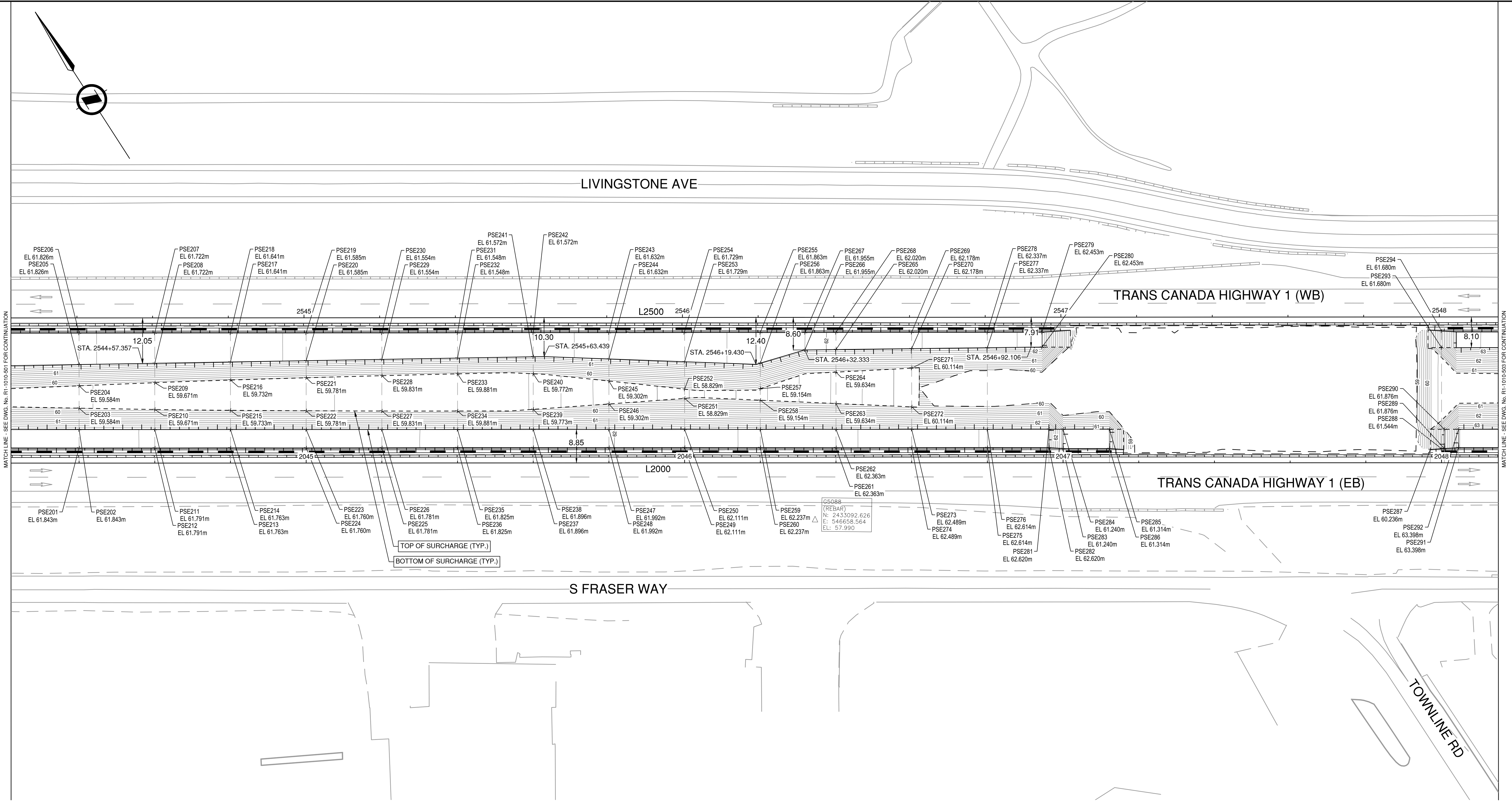
Professional Seal

 S.D. BIDULKA
 #29477
 BRITISH COLUMBIA
 ENGINEER
 2023-08-11

BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
 SOUTH COAST REGION
 HIGHWAY DESIGN AND GEOMATICS ENGINEERING

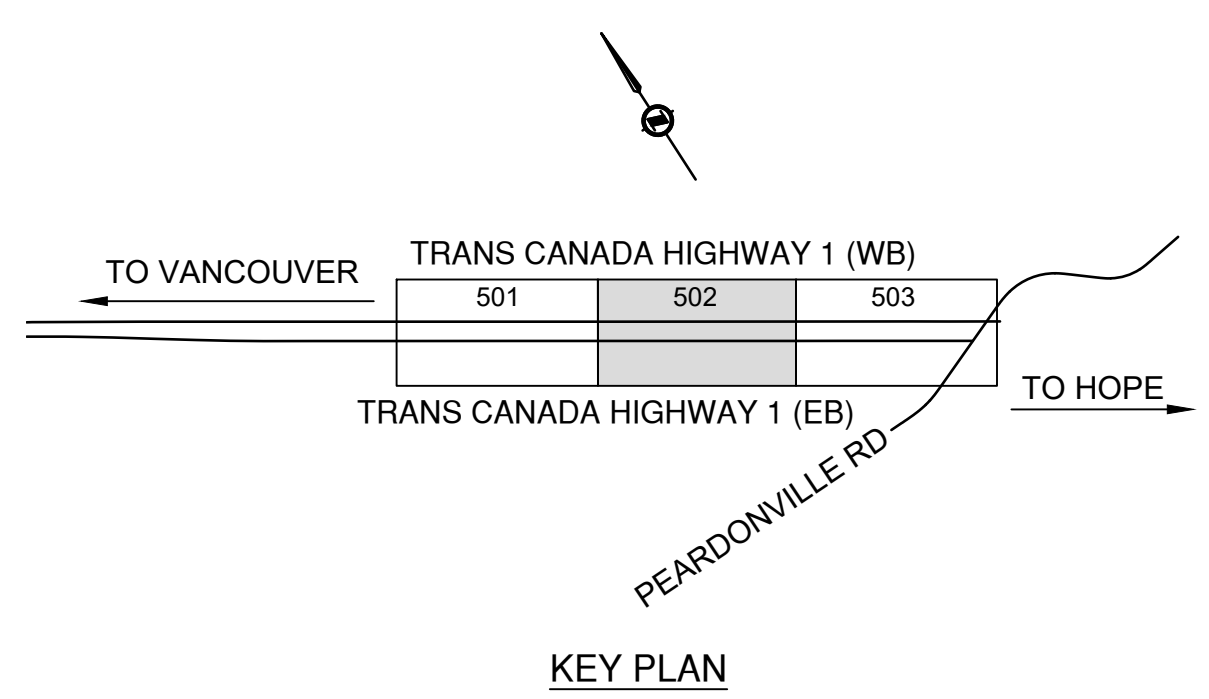
SPOT ELEVATIONS			
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARSONVILLE ROAD HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500 STA. 2040+46.000 TO STA. 2044+22.000 / STA. 2541+20.000 TO STA. 2544+22.568			
DESIGNED	H. ZHANG	DATE	2023-08-10
QUALITY CONTROL	S. BIDULKA	DATE	2023-08-10
ENGINEER OF RECORD	P. TSANG	DATE	2023-08-10
DRAWN	H. YIN	DATE	2023-08-10
DATE	2023-08-10	PROJECT NUMBER	12947-0002
FILE NUMBER	2021-2305-00	REG	1
DRAWING NUMBER	R1-1010-501	REV	

PLOT DATE: 2023/08/10 0:\2021-2305-00\civil\model\Drawings\DrawingProduction\500_SpotElevations\Preload\R1-1010-501_503.dwg

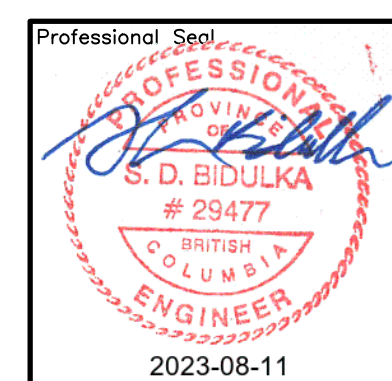


GENERAL NOTES:
1. FOR SPOT ELEVATIONS TABLES, REFER TO DWG. No. R1-1010-504.

- FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002
- FOR PLAN
SEE DWG. No. R1-1010-102
- FOR PROFILES
SEE DWG. No. R1-1010-201 TO 204
- FOR TYPICAL SECTIONS
SEE DWG. No. R1-1010-303
- FOR GEOMETRICS AND LANING / SIGNS
SEE DWG. No. R1-1010-402

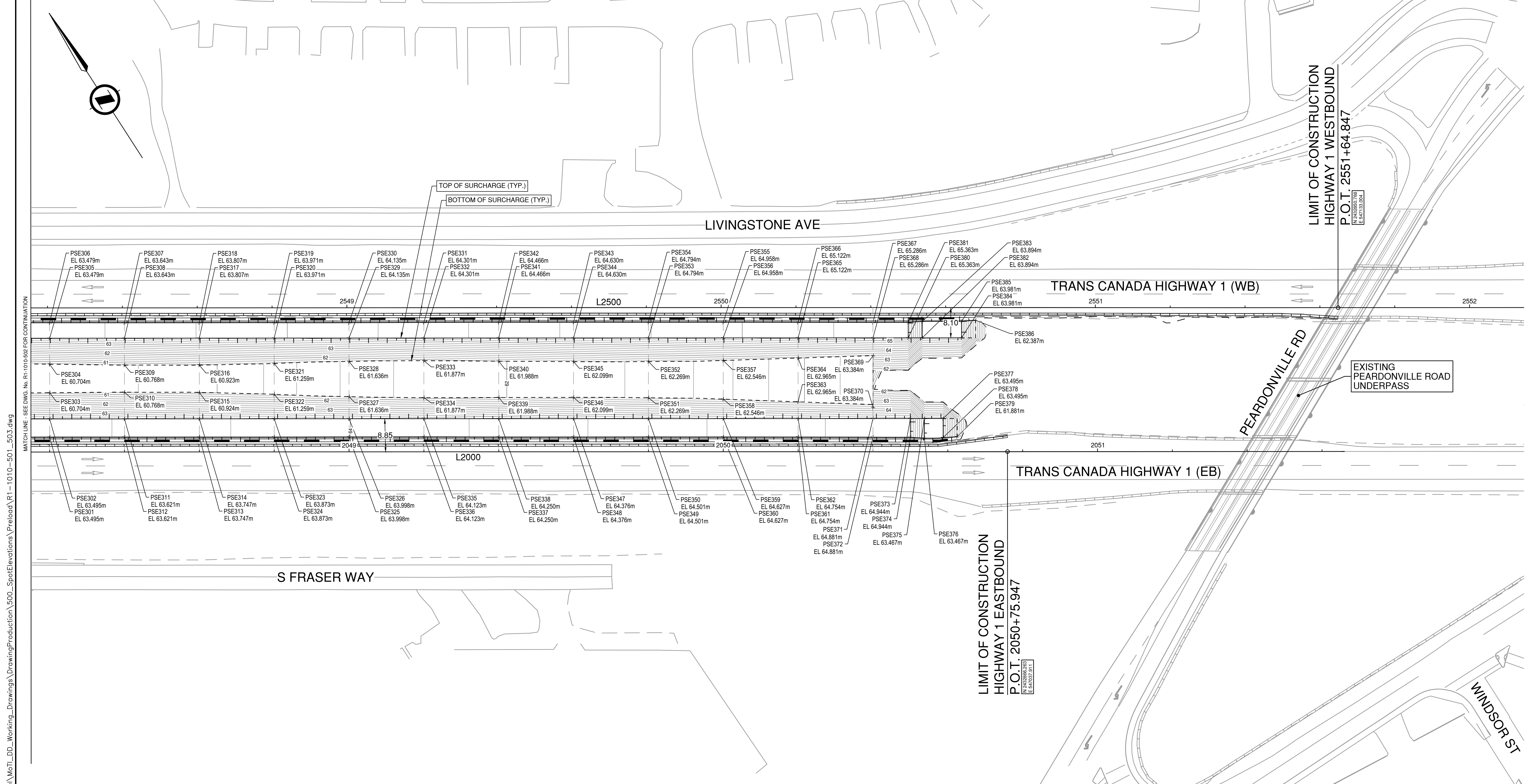


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ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



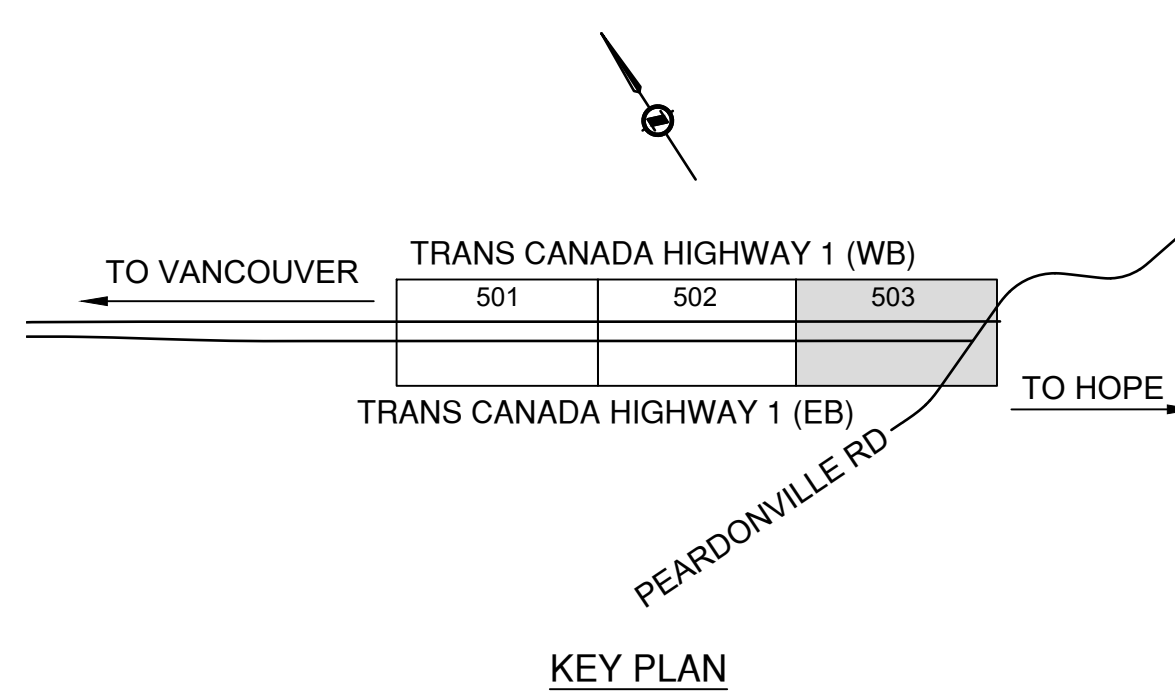
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REV	DATE	REVISIONS	NAME

		MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE SOUTH COAST REGION HIGHWAY DESIGN AND GEOMATICS ENGINEERING	
SPOT ELEVATIONS HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500 STA. 2044+22.000 TO STA. 2048+15.000 / STA. 2544+22.568 TO STA. 2548+15.555			
DESIGNED: H. ZHANG DATE: 2023-08-10 QUALITY CONTROL: S. BIDULKA DATE: 2023-08-10 ENGINEER OF RECORD: P. TSANG DATE: 2023-08-10 DATE: 2023-08-10 FILE NUMBER: 2021-2305-00 PROJECT NUMBER: 12947-0002 REG: 1 DRAWING NUMBER: R1-1010-502 REV:		SHAWN BIDULKA, P. ENG. QUALITY ASSURANCE: P. TSANG DATE: 2023-08-10 DRAWN: H. YIN DATE: 2023-08-10	

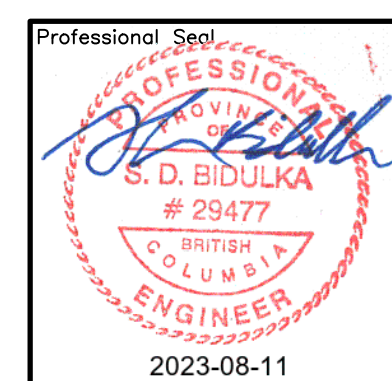


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- GENERAL NOTES:**
- FOR SPOT ELEVATIONS TABLES, REFER TO DWG. No. R1-1010-504.
- FOR SURVEY CONTROL
SEE DWG. No. R1-1010-002
 - FOR PLAN
SEE DWG. No. R1-1010-103
 - FOR PROFILES
SEE DWG. No. R1-1010-203 & 204
 - FOR TYPICAL SECTIONS
SEE DWG. No. R1-1010-303
 - FOR GEOMETRICS AND LANING / SIGNS
SEE DWG. No. R1-1010-403



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Associated Engineering		CAD FILENAME: R1-1010-503	
SCALE: 0 5 1:500 25m		PLOT DATE: 2023-08-10	
REV	DATE	REVISIONS	NAME

BRITISH COLUMBIA		MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE	
SOUTH COAST REGION		HIGHWAY DESIGN AND GEOMATICS ENGINEERING	
SPOT ELEVATIONS			
HIGHWAY 1 - ADVANCED WORKS MEDIAN PRELOAD FRASER HIGHWAY TO PEARDONVILLE ROAD HIGHWAY 1 EASTBOUND - L2000 / HIGHWAY 1 WESTBOUND - L2500 STA. 2048+15.000 TO STA. 2050+75.920 / STA. 2548+15.555 TO STA. 2551+64.850			
DESIGNED: H. ZHANG DATE: 2023-08-10		QUALITY CONTROL: S. BIDULKA DATE: 2023-08-10	
ENGINEER OF RECORD: SHAUN BIDULKA, P. ENG.		QUALITY ASSURANCE: P. TSANG DATE: 2023-08-10	
DATE: 2023-08-10		DRAWN: H. YIN DATE: 2023-08-10	
FILE NUMBER: 2021-2305-00	PROJECT NUMBER: 12947-0002	REG: 1	DRAWING NUMBER: R1-1010-503

