

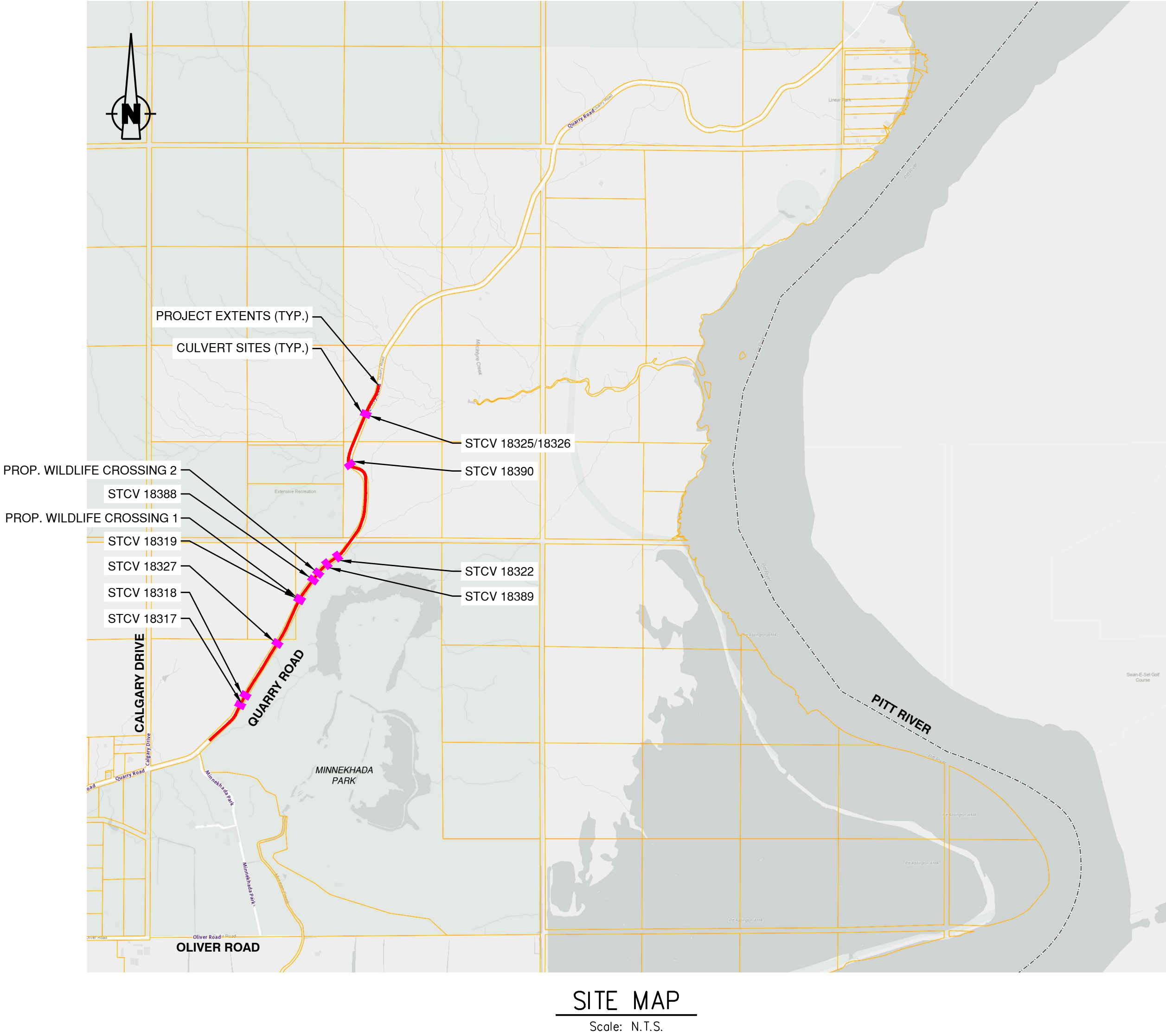
CITY OF COQUITLAM

3000 GUILDFORD WAY, COQUITLAM, BC V3B 7N2

QUARRY ROAD UPGRADES

ISSUED FOR TENDER

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN
		BUILDING
		EDGE OF PAVEMENT
		CURB & GUTTER
		TRUCK ROUTE
		SANITARY FORCE MAIN
		COMBINED SEWER
		SANITARY SEWER
		SANITARY CONNECTION & INSPECTION CHAMBER
		STORM SEWER
		STORM CONNECTION & INSPECTION CHAMBER
		CATCH BASIN / LAWN BASIN LEAD
		FRENCH DRAIN
		STORM SEWER & CLEANOUT
		CATCH BASIN - TOP INLET & SIDE INLET
		LAWN DRAIN
		CATCH BASIN MANHOLE
		SWALE
		DITCH
		SIDEWALK (ASPHALT)
		SIDEWALK (CONCRETE)
		RETAINING WALL
		TOP OF SLOPE
		BOTTOM OF SLOPE
		WATERMAIN
		WATER SERVICE CONNECTION
		WATER VALVE
		AIR VALVE
		HYDRANT & VALVE ASSEMBLY
		YARD HYDRANT
		CAPPED END
		WATER METER
		BLOW-OFF
		TELEPHONE U/G DUCTS & MANHOLE
		STREET LIGHT U/G DUCTS & MANHOLE
		GAS MAIN
		TRAFFIC SIGNAL U/G DUCTS
		HYDRO U/G DUCTS
		CABLE TV U/G DUCTS
		ORNAMENTAL STREET LIGHT - DAVIT
		ORNAMENTAL STREET LIGHT - POST TOP
		UTILITY POLE
		UTILITY POLE W/ LIGHT
		JUNCTION BOX
		GROUND ELEVATION
		DIRECTION OF OVERLAND FLOW



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Coquitlam

1. ALL MATERIALS SUPPLIED AND CONSTRUCTION PERFORMED SHALL BE IN ACCORDANCE WITH THE CITY OF COQUITLAM DESIGN CRITERIA, THE LATEST EDITION OF WORKSAFE BC, THE MASTER MUNICIPAL CONTRACT DOCUMENTS (MMCD) - 2009 EDITION (PLATINUM BOOK), AND ANY OTHER APPLICABLE DESIGN CRITERIA, SPECIFICATIONS, STANDARD DRAWINGS, AND CONSTRUCTION SPECIFICATIONS.
2. ALL MATERIAL TESTING MUST BE DONE IN ACCORDANCE WITH THE MMCD; TESTING TO BE CARRIED OUT BY QUALIFIED MATERIAL TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR IS TO PROVIDE COPIES OF ALL TEST RESULTS TO THE CONTRACT ADMINISTRATOR (CA). THE CONTRACTOR IS TO NOTIFY THE CA 48 HOURS PRIOR TO CONSTRUCTION AND VERIFY THEY HAVE THE LATEST DRAWINGS ISSUED FOR CONSTRUCTION. COPIES OF THE MMCD CAN BE OBTAINED AT MASTER MUNICIPAL CONSTRUCTION DOCUMENTS ASSOCIATION (MMCA), 102-211 COLUMBIA STREET, VANCOUVER, BC V6B 2R5.
3. THE CONTRACTOR IS TO NOTIFY THE CITY OF COQUITLAM ENGINEERING DEPARTMENT 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WITHIN THE ROAD ALLOWANCES AND RIGHTS-OF-WAYS.
4. ALL WORK SHALL PASS THE INSPECTION OF THE ENGINEERING DEPARTMENT OF THE CITY OF COQUITLAM.
5. THE CONTRACTOR SHALL HAVE COMPLETE CONTROL OF THE WORK AND SHALL EFFECTIVELY DIRECT AND SUPERVISE THE WORK SO AS TO ENSURE CONFORMANCE WITH THE CONTRACT DOCUMENTS. SUBJECT TO THE OWNER'S RIGHTS AS SPECIFICALLY SET OUT IN THE CONTRACT DOCUMENTS TO GIVE DIRECTIONS REGARDING WORK, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING THE VARIOUS PARTS OF THE WORK UNDER THE CONTRACT.
6. THE CONTRACTOR SHALL MAINTAIN THE WORK IN A TIDY CONDITION AND FREE FROM THE ACCUMULATION OF WASTE, DEBRIS, AND WASTE PRODUCTS, OTHER THAN THAT CAUSED BY THE OWNER OR ITS EMPLOYEES.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY AT THE PLACE OF WORK AS AND TO THE EXTENT REQUIRED BY APPLICABLE CONSTRUCTION SAFETY LEGISLATION, REGULATIONS AND CODES, INCLUDING THE WORKERS COMPENSATION ACT AND APPLICABLE REGULATIONS, AND BY GOOD CONSTRUCTION PRACTICE.
8. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS AND/OR PERMITS REQUIRED FOR THE PROPOSED WORKS HAVE BEEN OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
9. WORKSAFE B.C. IS TO BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
10. THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DESIGN DRAWINGS, ARE APPROXIMATE ONLY AND THIS INFORMATION MAY NOT BE FULLY ACCURATE OR COMPLETE. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING UTILITIES AT ALL TIE-IN POINTS, AT ALL POINTS WHERE A CONFLICT MAY ARISE DURING THE CONSTRUCTION OF THE PROPOSED WORKS, AND TO CONFIRM DESIGN ELEVATIONS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE CA FOR DIRECTIONS. THE CONTRACTOR SHALL ASSUME ALL COSTS AND EXPENSES THAT MAY OCCUR FOR DAMAGES, SUPPORT OF AND REPAIR TO SUCH PLANT BY REASON OF THE NEGLIGENCE OF HIS OPERATIONS. (EXISTING UTILITIES SHOWN ARE DERIVED FROM AS-BUILT INFORMATION AND ALL UTILITIES MAY NOT BE NECESSARILY SHOWN).
11. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE. THIS MAY INCLUDE DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED BY CONSTRUCTION ACTIVITIES.
12. ALL CONSTRUCTION IN AND ABOUT A WATERCOURSE MUST RECEIVE PRIOR APPROVAL FROM THE PROVINCIAL MINISTRY OF ENVIRONMENT AND/OR THE FEDERAL DEPARTMENT OF FISHERIES AND OCEANS WHERE APPLICABLE.
13. EXISTING UNDERGROUND UTILITY TRENCHES ADJACENT TO THE PROPOSED UNDERGROUND UTILITY INSTALLATION SHALL BE ADEQUATELY PROTECTED FROM SLOUGHING IN ORDER TO PREVENT OVER-WIDTH EXCAVATION.
14. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR EXISTING SERVICES AND ANY SERVICES DISTURBED ARE TO BE REPLACED TO THE SATISFACTION OF THE CITY OF COQUITLAM OR OTHER APPROVING AGENCIES.
15. ANY MATERIAL SUBSTITUTION AND/OR CHANGE IN DESIGN MUST OBTAIN WRITTEN APPROVAL FROM THE CA PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CITY SHALL BE NOTIFIED OF ANY SUBSTITUTION AND/OR CHANGE IN DESIGN. ANY CHANGE IN DESIGN WILL REQUIRE A DRAWING REVISION.
16. ALL SURVEY MONUMENTS, BENCHMARKS, AND LEGAL PINS MUST BE PROTECTED AND ANY DAMAGE CAUSED BY THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
17. ALL EXISTING IMPROVEMENTS INCLUDING EXISTING LANDSCAPING, FENCES, SIDEWALKS, RETAINING WALLS, ETC. SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OF COQUITLAM. THE CITY OF COQUITLAM MAY REQUIRE WRITTEN ACCEPTANCE BY THE AFFECTED PROPERTY OWNERS FOR RESTORATION WORKS PERFORMED BY THE CONTRACTOR.
18. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNERS FOR A TEMPORARY ENCROACHMENT ON PRIVATE PROPERTY.
19. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING THE NECESSARY FIELD SURVEYS TO PERMIT THE LAYOUT, CONSTRUCTION AND MEASUREMENT OF QUANTITIES OF THE WORK FOR PAYMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS FIELD SURVEY, WHICH IS DEEMED TO BE INCLUDED IN THE UNIT PRICES TENDERED FOR THE ITEMS IN THE SCHEDULE OF QUANTITIES AND PRICES.

THE CA WILL PROVIDE THE CONTRACTOR WITH CAD FILE WHICH CONTAINS HORIZONTAL AND VERTICAL SURVEY CONTROLS. THE CONTRACTOR SHALL GIVE NOTICE OF HIS SURVEY REQUIREMENTS AT LEAST TWO WORKING DAYS IN ADVANCE OF THE WORK AND SHALL PROTECT AND MAINTAIN THE CONTROLS PROVIDED. THE CONTRACTOR SHALL ENSURE THAT THE AREAS RECEIVING THE CONTROLS ARE UNOBSTRUCTED AND CLEAR OF DEBRIS, EQUIPMENT, EXCAVATIONS AND ANY OTHER WORK PRIOR TO REQUESTING THE CONTROLS. RE-ESTABLISHMENT OF CONTROLS, SURVEY POSTS AND BENCHMARKS WHICH ARE DAMAGED OR LOST SHALL BE AT THE CONTRACTOR'S EXPENSE.
20. THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING TRAFFIC CONTROL, SIGNAGE, DELINEATORS, BARRICADES, AND OTHER MISCELLANEOUS WARNING DEVICES AS REQUIRED TO MAINTAIN VEHICLE AND PEDESTRIAN FLOW AND FOR EMERGENCY VEHICLE ACCESS. A TRAFFIC MANAGEMENT PLAN WILL BE PROVIDED AS REQUIRED.
21. CONTACT COQUITLAM ENGINEERING DEPT. MIN. 48HRS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR WORKS INSPECTOR.
22. ALL EXCAVATION WITHIN EXISTING TREE DRIP LINES TO BE BY HAND OR HYDRO-VAC.
23. THE CONTRACTOR SHALL KEEP PROPER AS BUILT INFORMATION DURING CONSTRUCTION AND SUBMIT THE INFORMATION TO THE CONTRACT ADMINISTRATOR PRIOR TO THE REQUEST OF SUBSTANTIAL COMPLETION CERTIFICATE. THE CONTRACTOR SHALL PROVIDE TO THE CA ONE (1) SET OF AS-CONSTRUCTED DRAWINGS SHOWING THE LOCATION AND ELEVATION OF ALL NEW AND EXISTING WORKS ENCOUNTERED ON THE PROJECT.

3. THE SUBGRADE AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO AT LEAST 95% OF THEIR MODIFIED PROCTOR DRY DENSITY UNLESS NOTED OTHERWISE. 97% FOR MARSHALL MIX.
2. ALL LOOSE AND ORGANIC MATERIAL SHALL BE EXCAVATED AND REMOVED FROM THE ROADWAY.
3. THE CRUSHED GRANULAR BASE COURSE SHALL BE PROOF-ROLLED OR TESTED IN ANOTHER APPROVED MANNER PRIOR TO THE PLACEMENT OF THE PROPOSED CONCRETE CURB AND GUTTER AND ROAD PAVEMENT.
4. THE PROPOSED PAVEMENT STRUCTURE SHALL BE AS DESIGNATED BY THE ROADWORKS DESIGN DRAWINGS.
5. DRIVEWAY CROSSINGS SHALL BE INSTALLED PER THE DETAILS ON THE ROADWORKS DESIGN DRAWINGS, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS DIRECTED BY CONTRACT ADMINISTRATOR.
6. CHANGES IN GRADE SHALL BE FORMED WITH SMOOTH CURVES.
7. THE CONTRACTOR SHALL SAWCUT THE EXISTING PAVEMENT WHERE INDICATED ON THE DRAWING OR AS DIRECTED BY THE CA.
8. TIE-IN TO EXISTING PAVEMENT SHALL BE MADE BY CUTTING BACK THE EXISTING PAVEMENT TO SOUND MATERIAL AS NECESSARY TO PRODUCE A NEAT VERTICAL FACE WITH STRAIGHT EDGE PRIOR TO PLACING HOT MIX ASPHALTIC CONCRETE. EXPOSED PAVEMENT SURFACES SHALL BE CLEANED, PAINTED WITH TACK COAT, AND HEATED TO 65 DEGREES CELSIUS. THE FINISHED PAVEMENT SURFACE SHALL BLEND IN SMOOTHLY WITH EXISTING PAVEMENT. THE EDGE OF PAVEMENT SHALL BE SAWCUT AND KEYED TO FORM A MINIMUM 200mm WIDE X 35mm DEEP LAP JOINT WITH PROPOSED PAVEMENT UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
9. ALL PAVEMENT MARKINGS AND SIGNAGE TO BE REINSTATED IN THE PLACE OF WORK UNLESS OTHERWISE NOTED. CONTRACTOR RESPONSIBLE TO PERFORM PRE AND POST CONSTRUCTION SURVEY WORK ESSENTIAL FOR THE REINSTATEMENT OF PAVEMENT MARKINGS AND SIGNAGE.
10. OVER-EXCAVATE (OPTIONAL): WHERE DIRECTED BY THE CONTRACT ADMINISTRATOR, EXCAVATE UNSUITABLE MATERIAL AND REPLACE WITH IMPORTED BASE GRAVEL OR CRUSHED GRANULAR SUB-BASE COMPACTED IN PLACE TO 95% MODIFIED PROCTOR DENSITY.
11. CONTRACTOR TO IDENTIFY ANY SURVEY MONUMENTS AND LEAD PLUGS THAT MAY BE DISTURBED DURING CONSTRUCTION AND ARRANGE WITH THE OWNER'S SURVEY DEPARTMENT 5 DAYS PRIOR TO CONSTRUCTION TO REFERENCE LOCATIONS BEFORE WORK COMMENCES.
12. PROOF ROLL BASE, ADD GRAVELS AS REQ'D, RECOMPACT, AND RESHAPE AS REQ'D PRIOR TO PAVING.
13. CLEAN AND TACK-COAT ALL ASPHALT SURFACES INCLUDING JOINTS PRIOR TO PAVING.
14. CONTRACTOR MUST SET THE SURVEY LAYOUT OF THE PROPOSED ROADWAY. A WALKTHROUGH WITH THE CONTRACT ADMINISTRATOR IS REQUIRED AFTER THE LAYOUT IS DONE. ADJUSTMENTS OF BOULEVARD, SIDEWALK ELEVATIONS AND LAYOUT MUST BE DONE AS INSTRUCTED BY THE CONTRACT ADMINISTRATOR. THESE ADJUSTMENTS ARE INCIDENTAL TO THE CONTRACT.
15. ALL CHANGES ARE INCIDENTAL TO CONTRACT.
16. NEW LINE PAINTING AND SIGNAGE AS PER M.U.T.C.D STANDARDS.
17. ALL ROADSIDE BARRIERS SHALL BE PLACED TO ENSURE THAT THERE IS MIN. 0.3m OF ROAD STRUCTURE BEHIND.
18. THE GRANULAR ROAD STRUCTURE SHOULD EXTEND BEYOND THE EDGE OF THE ROAD SURFACE TO A DISTANCE AT LEAST EQUAL TO THE PAVEMENT STRUCTURE.
19. CONTRACTOR TO IDENTIFY ANY SURVEY MONUMENTS AND LEAD PLUGS THAT MAY BE DISTURBED DURING CONSTRUCTION AND ARRANGE WITH THE OWNER'S SURVEY DEPARTMENT 5 DAYS PRIOR TO CONSTRUCTION TO REFERENCE LOCATIONS BEFORE WORK COMMENCES.

1. ALL WORK TO BE IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL ENVIRONMENTAL REQUIREMENTS (BEST MANAGEMENT PRACTICES/GUIDELINES), INCLUDING ALL ASSOCIATED WORK AND OTHER WORKS NOT SPECIFIED ON THE CONTRACT DRAWINGS, BUT AS DIRECTED BY THE CONTRACT ADMINISTRATOR TO THE SATISFACTION OF THE PROJECT'S QUALIFIED ENVIRONMENTAL PROFESSIONAL.
2. CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH ALL MUNICIPAL, PROVINCIAL AND FEDERAL REQUIREMENTS.
3. THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR APPROVAL BY THE CITY BEFORE STARTING ANY CONSTRUCTION.
4. AN APPROPRIATELY SIZED EMERGENCY SPILL KIT IS TO BE KEPT ON-SITE AT ALL TIMES THE CONTRACTOR IS OPERATING. SPILL KITS MUST INCLUDE BROOMS, SPILL PADS, GLOVES, AND CATCH BASIN BARRIERS.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A SPILL RESPONSE PLAN THAT PROVIDES WRITTEN SAFE WORK PROCEDURES IN THE EVENT OF A SPILL.
6. CONTRACTOR TO PROVIDE TEMPORARY DRAINAGE AND GRADING AS REQUIRED IN AND AROUND THE SITE TO PROTECT THE EXCAVATION AND WORK AREA DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DRAINAGE FROM INADEQUATE DRAINAGE PROTECTION, THE DISCHARGE OF ANY SUCH TEMPORARY WORKS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ENVIRONMENTAL NOTES.

- ANY RIPRAP SOURCE SHALL BE TESTED BY THE CONTRACTOR FOR CONFORMANCE TO THE REQUIREMENTS OF TABLE A
- TABLE B AND C PROVIDE RIPRAP GRADATION.
- THE FOLLOWING HOLD POINTS WILL APPLY FOR CLASS 100 kg RIPRAP AND LARGER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - A) GRADATION OC AND MATERIAL PROPERTY TEST RESULTS FOR RIPRAP ARE PROVIDED TO THE ENGINEER PRIOR TO STARTING DELIVERY TO SITE.
 - B) COMPLETIONS OF TOE/TERMINAL END KEY EXCAVATIONS
 - C) PREPARATION OF BACK SLOPE/SURFACE
 - D) APPLICATION OF FILTER(S)
 - E) COMPLETION OF TOE CONSTRUCTION
- WORK SHALL BE CARRIED OUT TO PREVENT CRACKING OR BREAKING OF ROCK RIPRAP BY CRUSHING UNDER MACHINE TRACKS. WORK SHALL BE CARRIED OUT TO AVOID DISTURBING THE FILTER LAYER(S). DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- PREPARATION - AREAS TO RECEIVE RIPRAP SHALL BE TRIMMED TO A UNIFORM SURFACE AND TO THE SLOPE(S) INDICATED ON THE DRAWINGS. BEFORE ROCK PLACEMENT COMMENCES, LOOSE MATERIAL SHALL BE REMOVED AND MINOR HOLLOWS FILLED WITH SURROUNDING NATIVE MATERIALS WELL TAMPED-IN TO THE APPROVAL OF THE ENGINEER.
- RIPRAP MUST BE NEATLY PLACED (NOT DUMPED) AND INTERLOCKED TO ACHIEVE AN INTERCONNECTED RIPRAP LAYER
- ALL CRUSHED ROCK AND GRANULAR AGGREGATE USED FOR THE PROJECT SHALL NOT PRESENT AS A SOURCE OF POTENTIAL ACID ROCK DRAINAGE (ARD) AND METAL LEACHING (ML).
- A NON-WOVEN GEOTEXTILE SHALL BE PLACED BENEATH ALL RIPRAP. THE RIPRAP MUST BE NEATLY PLACED (NOT DUMPED) AGAINST THE GEOTEXTILE. THE CONTRACTOR MUST EXERCISE CAUTION TO AVOID DAMAGING THE GEOTEXTILE (I.E. TEARING, RIPPING, PUNCTURING) DURING INSTALLATION AND FILL PLACEMENT
- THE NOMINAL THICKNESS OF 25kg RIPRAP SHOULD BE MINIMUM 450mm. THE NOMINAL THICKNESS OF 100kg RIPRAP SHOULD BE MINIMUM 700mm.
- THE SLOPE ANGLE OF THE RIPRAP SHOULD NOT BE STEEPER THAN 1.5H: 1V (HORIZONTAL : VERTICAL)
- ALL RIPRAP VOIDS BELOW HIGH WATER MARK SHALL BE WITH EXCAVATED NATIVE SUBSTRATE.

CLASS OF RIPRAP (kg)	ROCK MASS (kg)			
	PERCENTAGE SMALLER THAN GIVEN ROCK MASS			MAX SIZE
	15%	50%	85%	
25	2.5	25	75	125
100	10	100	300	500

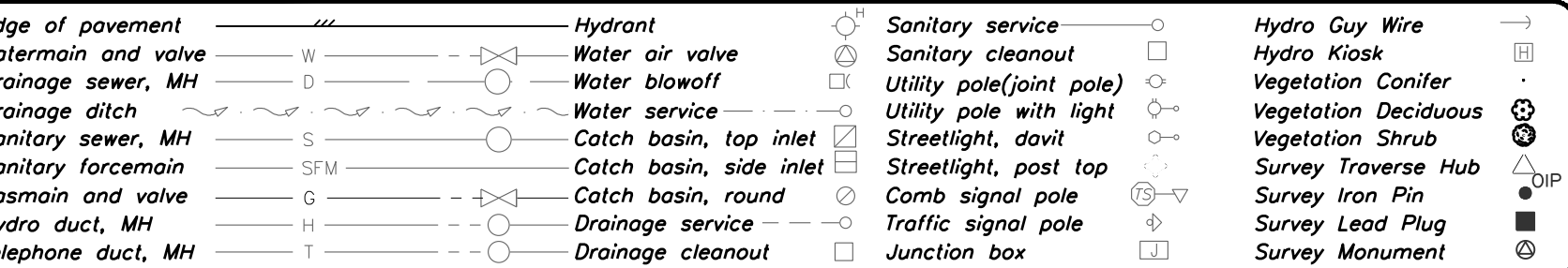
CLASS OF RIPRAP (kg)	INTERMEDIATE DIMENSION (mm)			
	PERCENTAGE SMALLER THAN INTERMEDIATE DIMENSION			MAX SIZE
	15%	50%	85%	
25	125	270	385	450
100	200	425	610	750

EGBC PERMIT No. 1001128

NOT FOR CONSTRUCTION

NOT TO SCALE

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A	2026-05-27	BB	ISSUED FOR TENDER
No.	Date	By	Revisions

Design by BB	Date 2026-05-27
Drawn by BB	Date 2026-05-27
Checked by RA	Date 2026-05-27
Approved by CS	Date 2026-05-27

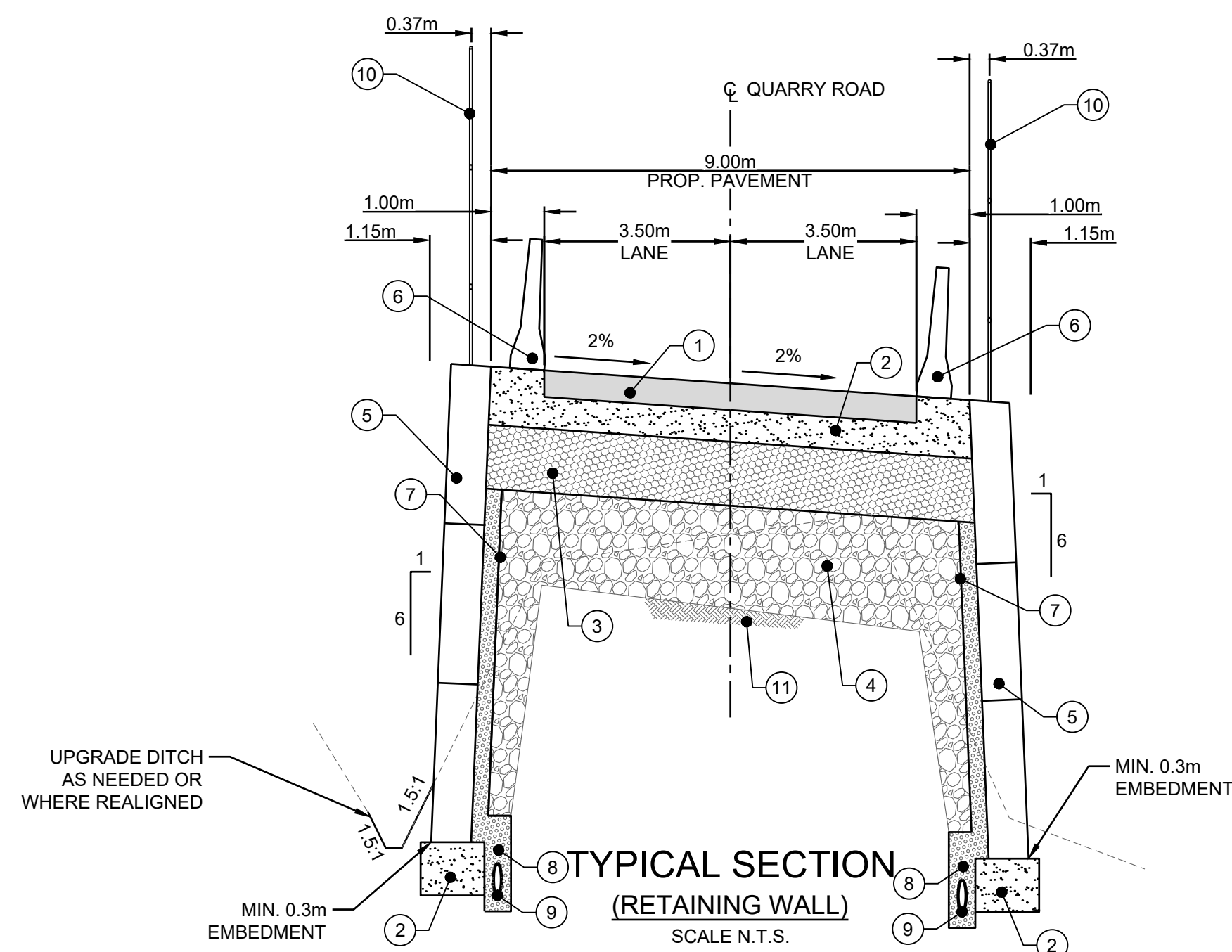
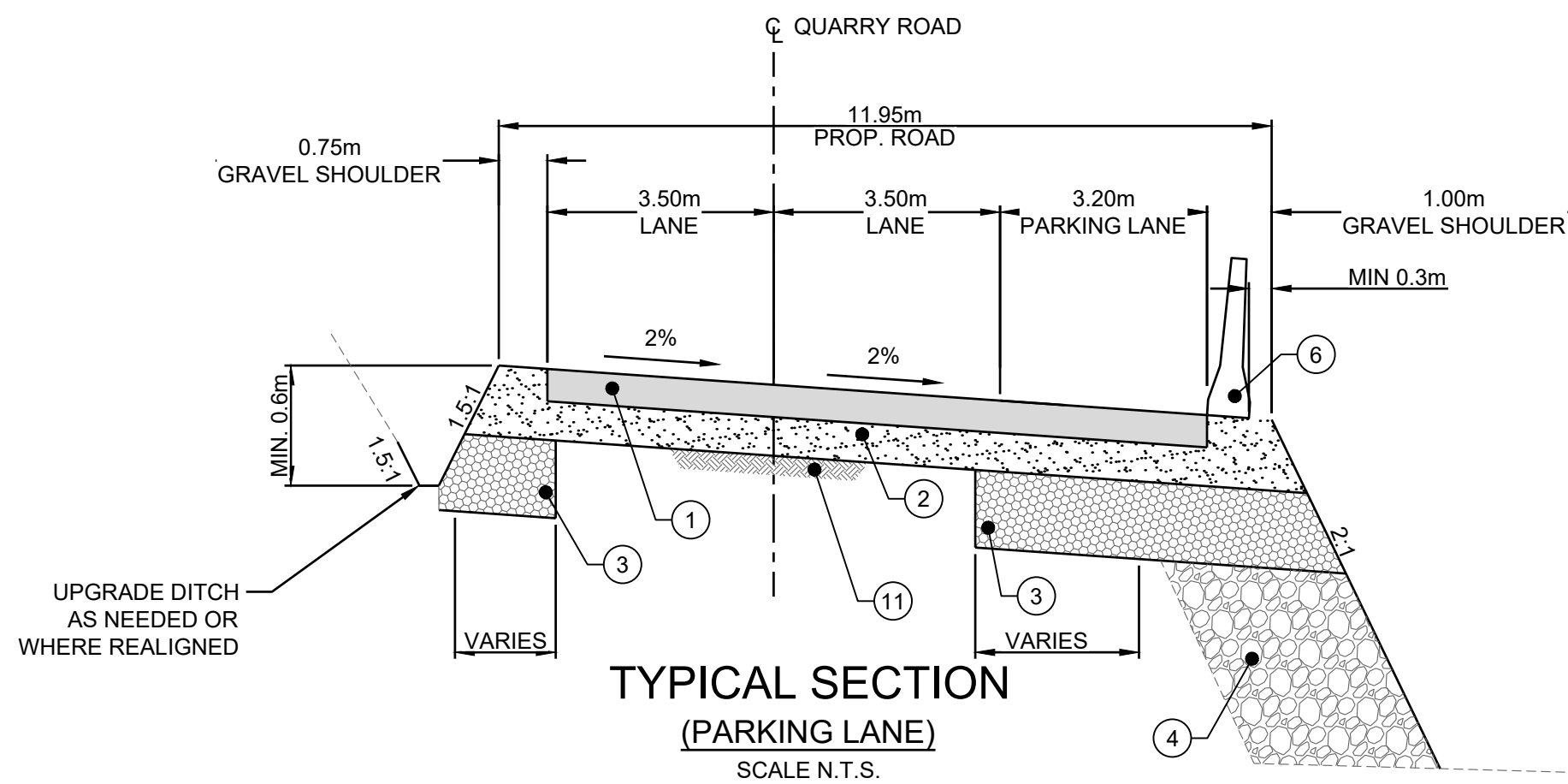
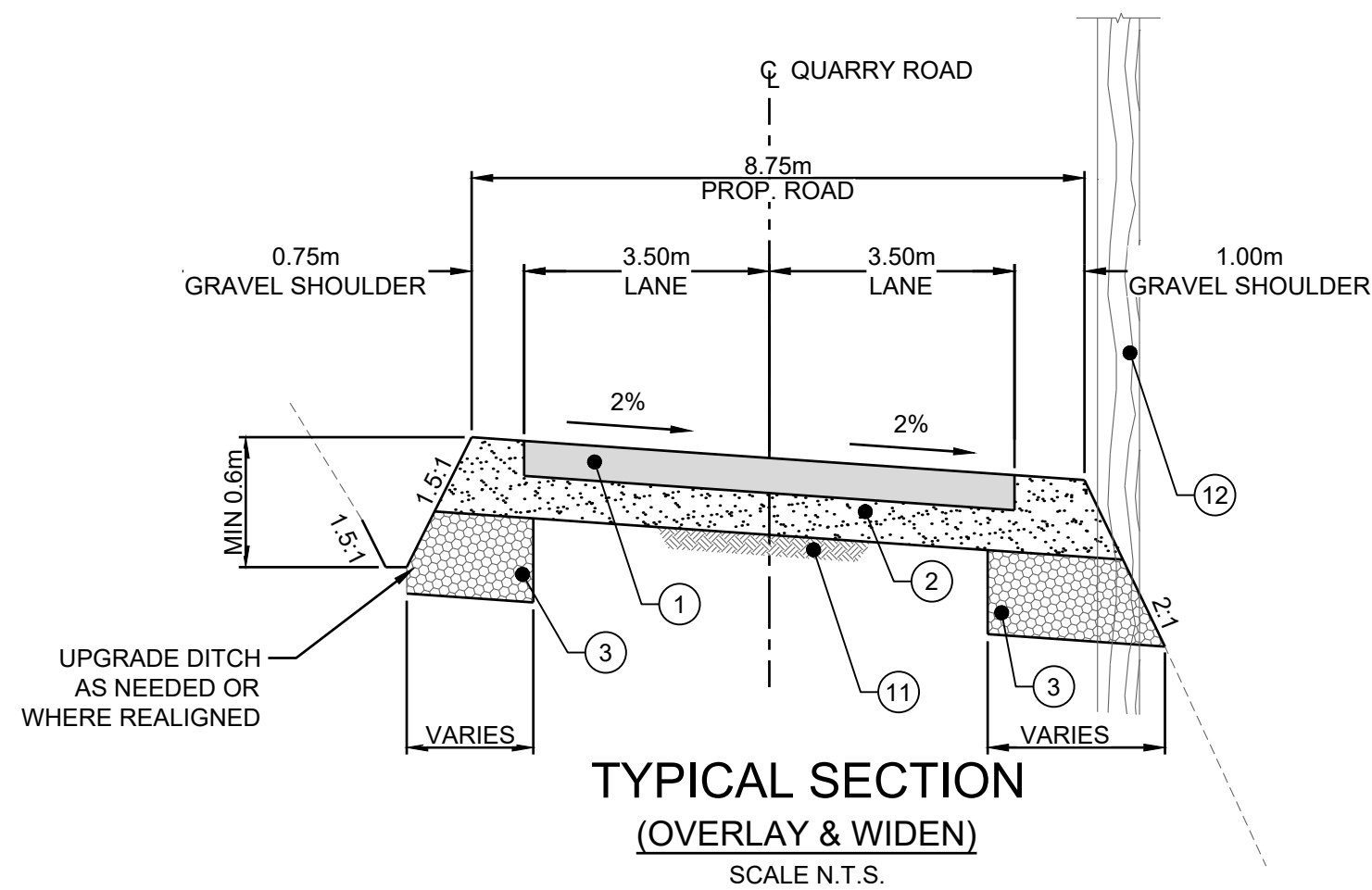


Scale horiz. **N.T.S.** Scale vert. **N.T.S.**
Sheet **1** of **30**
Eng. Project No. **21-0273**

Project	QUARRY ROAD UPGRADES	
Description	GENERAL NOTES	
File:	21-0273-N	REV. A

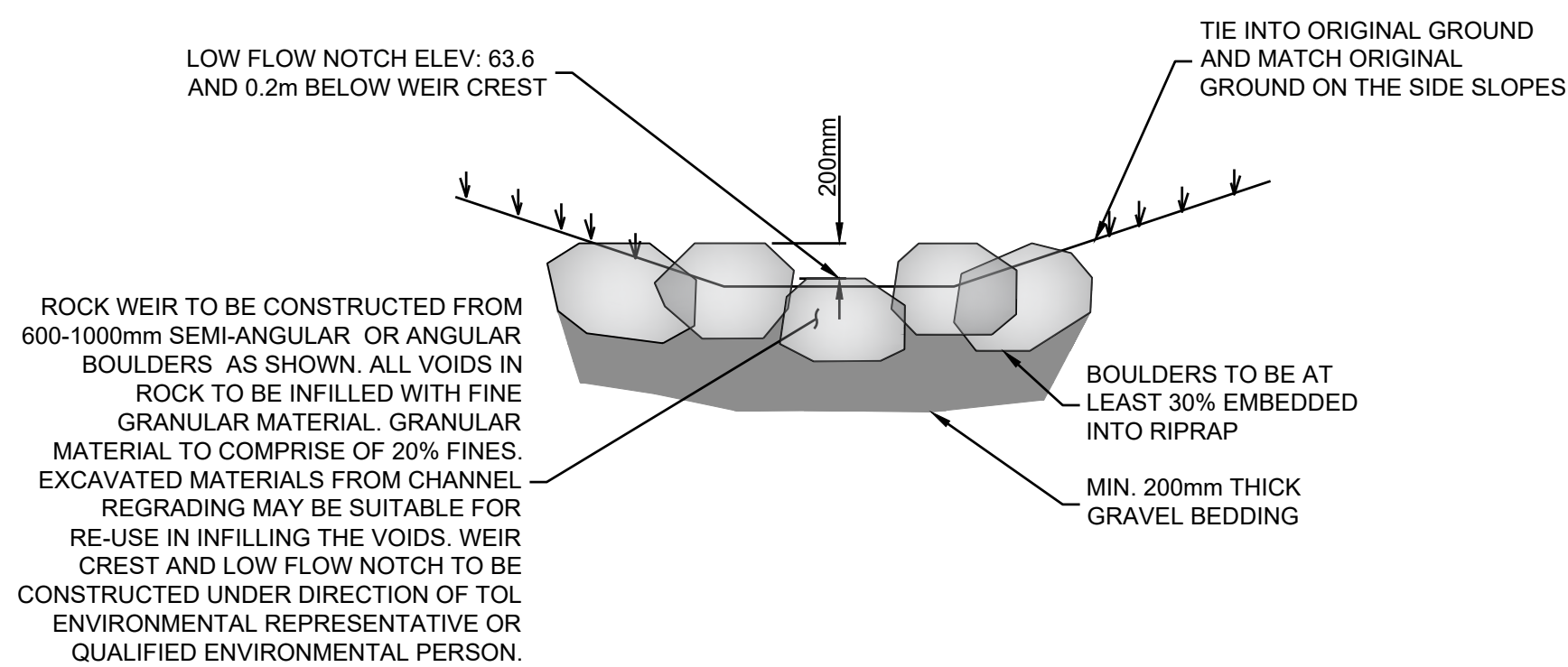
Plot Date: May 27, 2026

REV. A

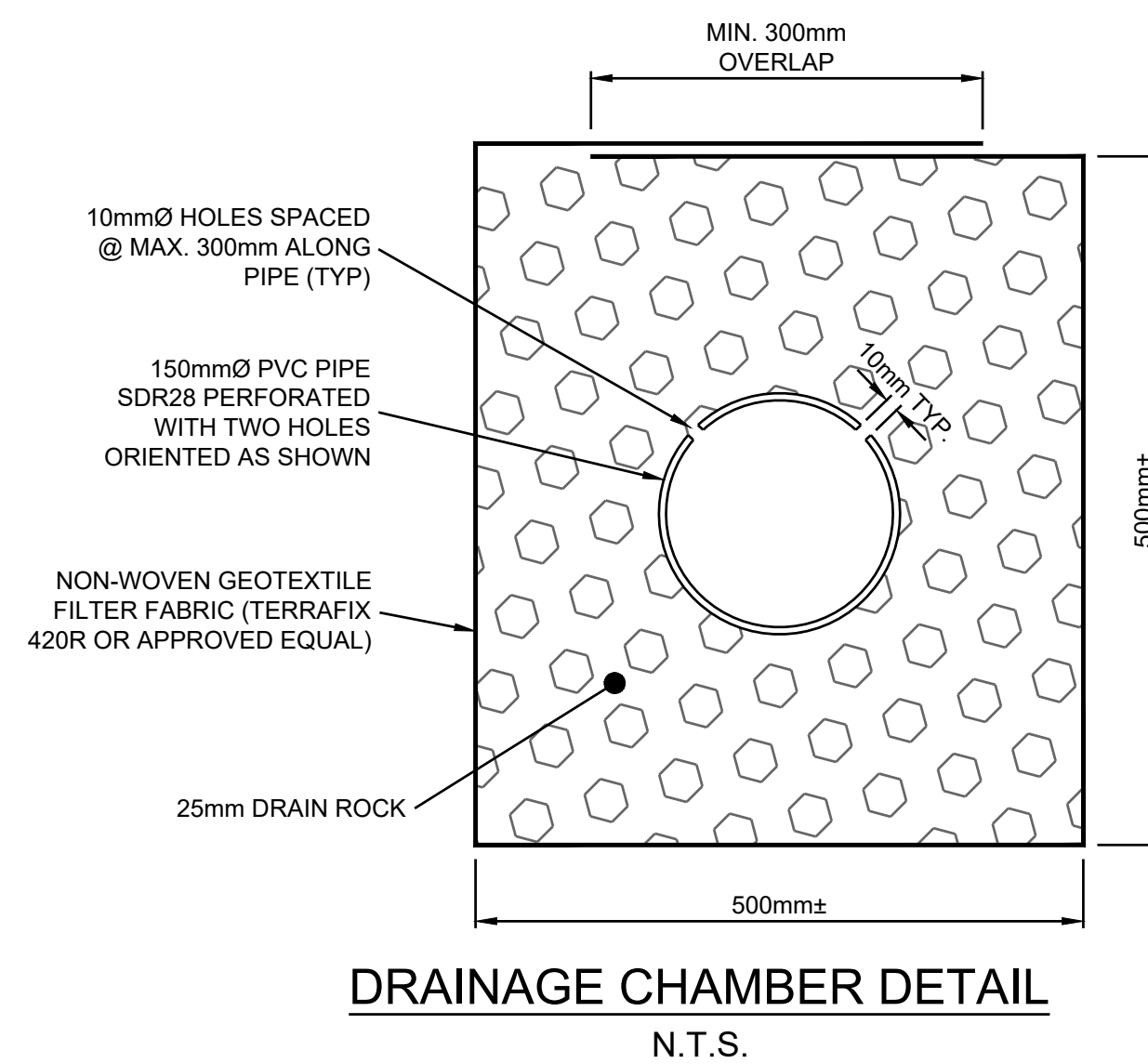


TYPICAL SECTIONS KEY NOTES

- 125mm-THICK ASPHALT CONCRETE PAVEMENT IN TWO LIFTS:
 - 50mm MMCD UPPER COURSE #1
 - 75mm MMCD LOWER COURSE #1
- 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO MINIMUM 95% MODIFIED PROCTOR DENSITY
 - 150mm THICK UNDER ASPHALT PAVEMENT
 - 125mm THICK SHOULDER
 - MIN. 200mm UNDER BOTTOM ROW LOCK BLOCKS
- 300mm-THICK 75mm MINUS CRUSHED GRANULAR SUBBASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY TO BE PLACED ON APPROVED SUBGRADE
- ROAD FILL 75mm MINUS PIT RUN COMPACTED TO 95% MODIFIED PROCTOR DENSITY TO BE PLACED ON APPROVED SUBGRADE
- LOCK BLOCK RETAINING WALL
- CONCRETE ROADSIDE BARRIER AS PER BC MoTT SP941-01
- MIN. 300mm WIDE CHIMNEY DRAIN (25mmØ DRAIN ROCK)
- DRAINAGE CHAMBER (SEE DETAIL ON THIS SHEET)
- 150mmØ PERFORATED PVC SDR28 PIPE (TWO HOLES ORIENTED ON TOP) SURROUNDED BY 25mmØ DRAIN ROCK CHIMNEY DRAIN
- 1.2m HIGH HANDRAIL AS PER MMCD DWG C14. ATTACH HANDRAIL POSTS TO PROP. LOCK BLOCK AND PROP. CONC. BOX CULVERT USING ATTACHED MOUNTING DETAIL AS PER MMCD DWG C14. HANDRAIL TO BE EXTENDED AS REQUIRED BEYOND 1.2m HEIGHT TO PREVENT KINGS AT INTERFACE BETWEEN CONC. CULVERT AND LOCK BLOCKS.
- EX. GROUND
- EX. UTILITY POLE



ROCK WEIR TYPICAL SECTION
N.T.S.



DRAINAGE CHAMBER DETAIL
N.T.S.

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Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole(joint pole)	Vegetation Canister
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetslight, dovil	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetslight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
A	2026-05-27	BB	ISSUED FOR TENDER

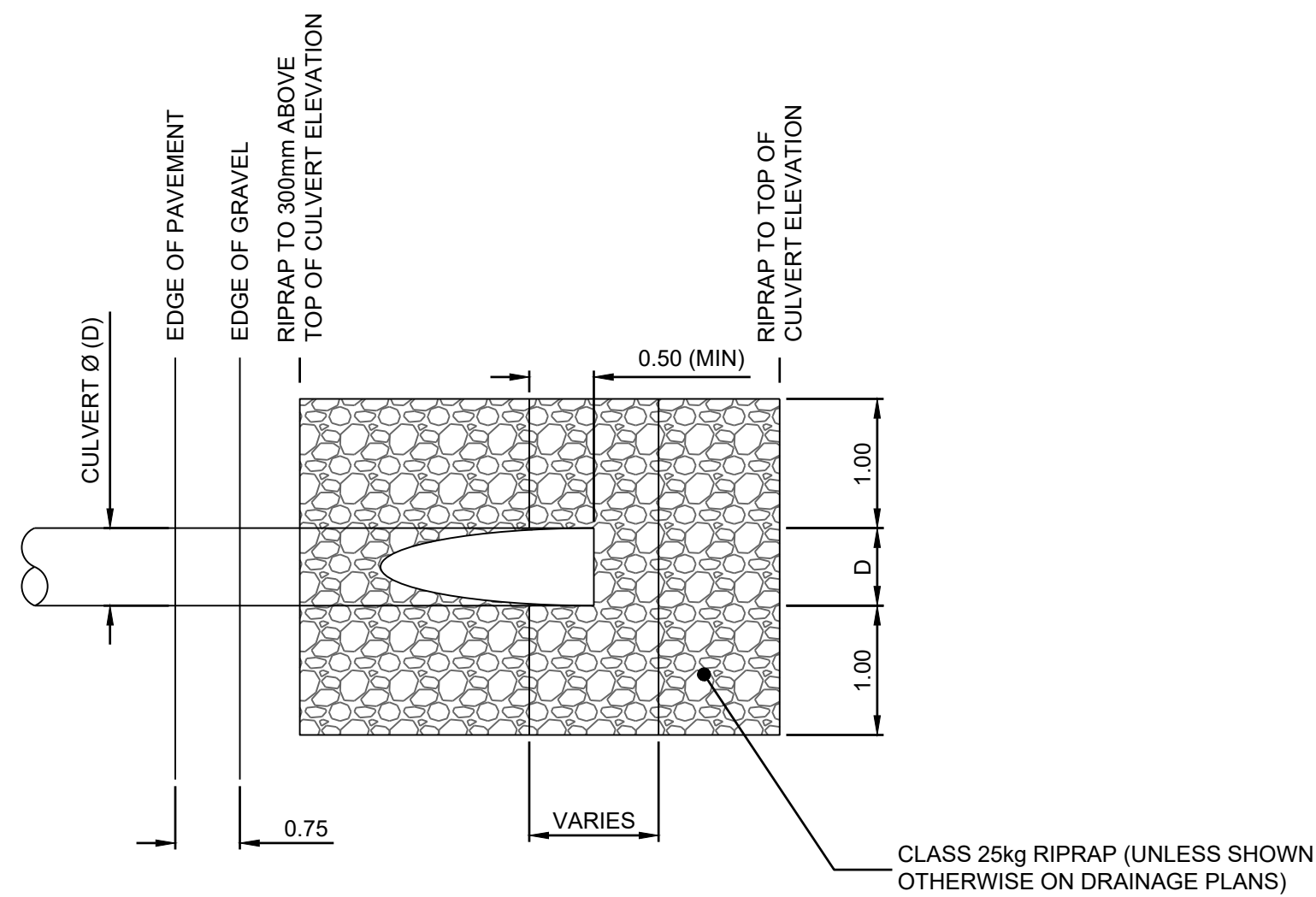
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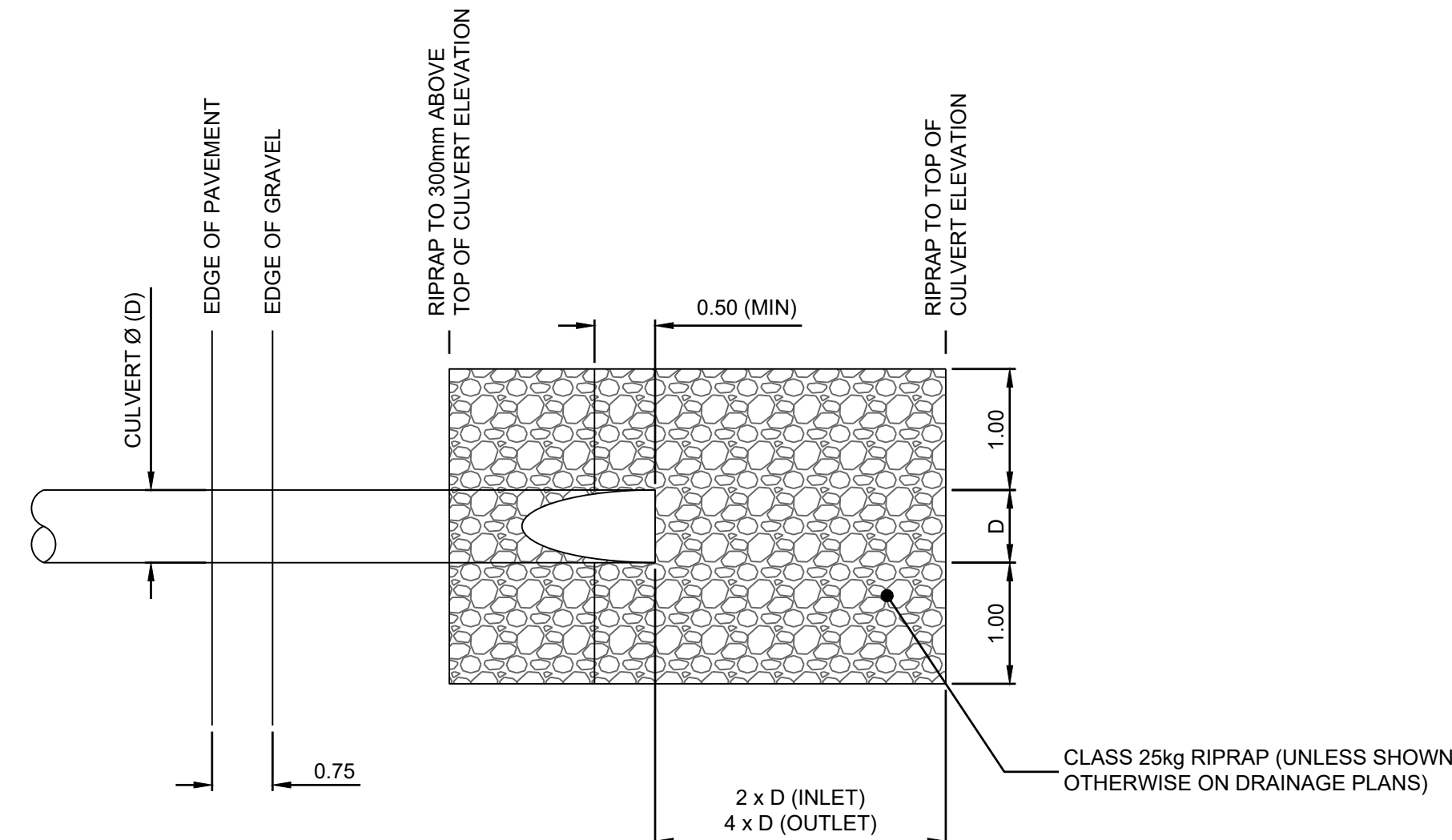
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horiz.		vert.	
Sheet	2	of	30
Eng. Project No.	21-0273		

Project	QUARRY ROAD UPGRADES CALGARY DR - MACINTYRE CREEK
Description	TYPICAL SECTIONS
File:	21-0273-TS1
REV.	A

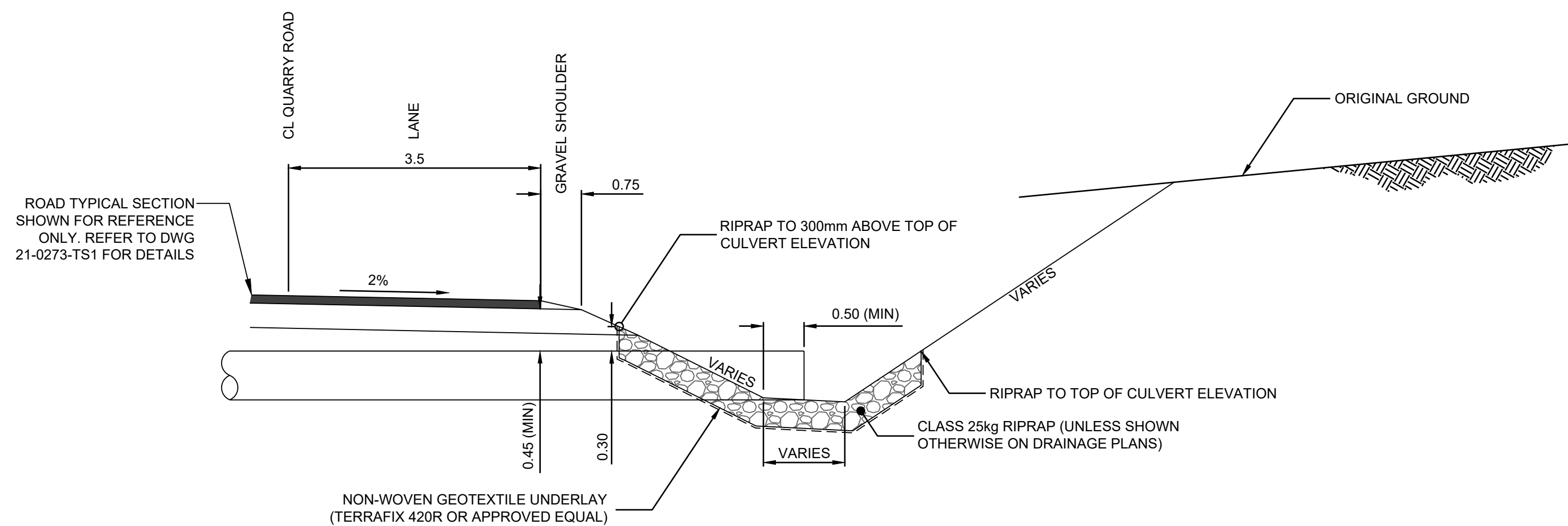
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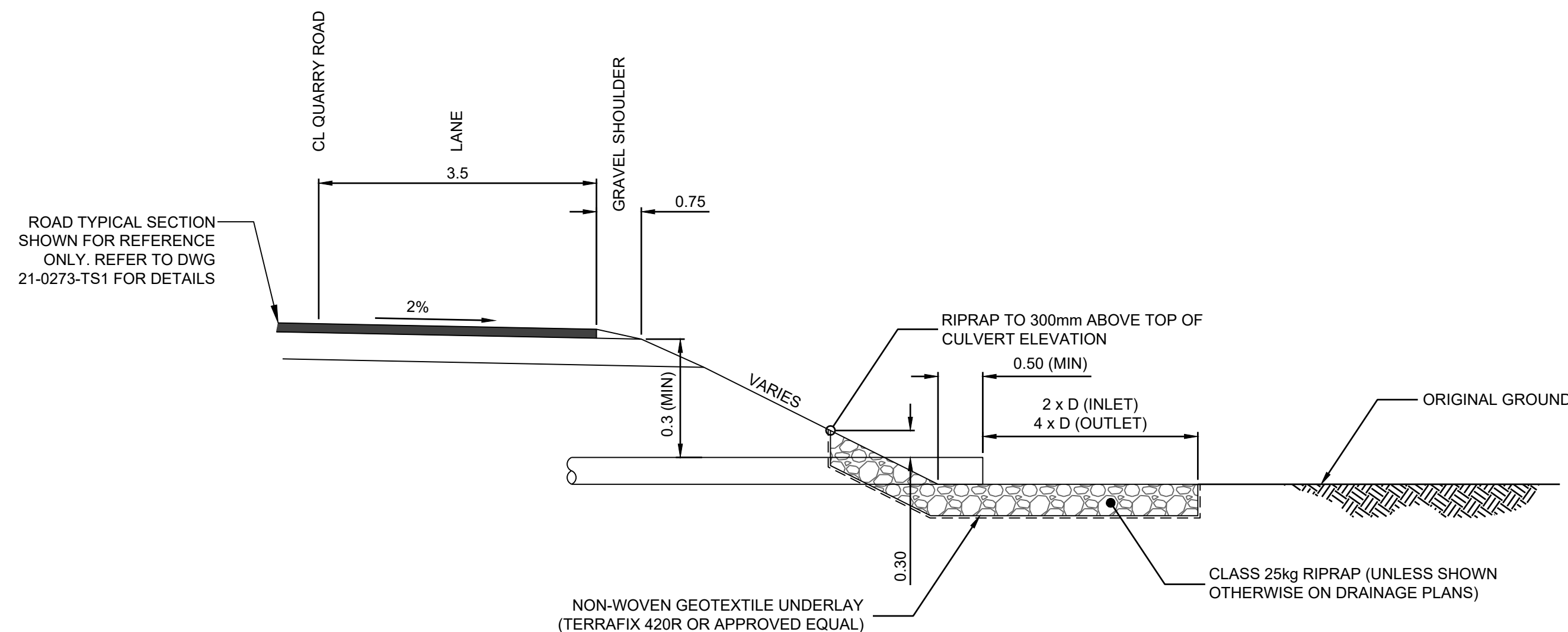
CULVERT RIPRAP IN CUT (PLAN)



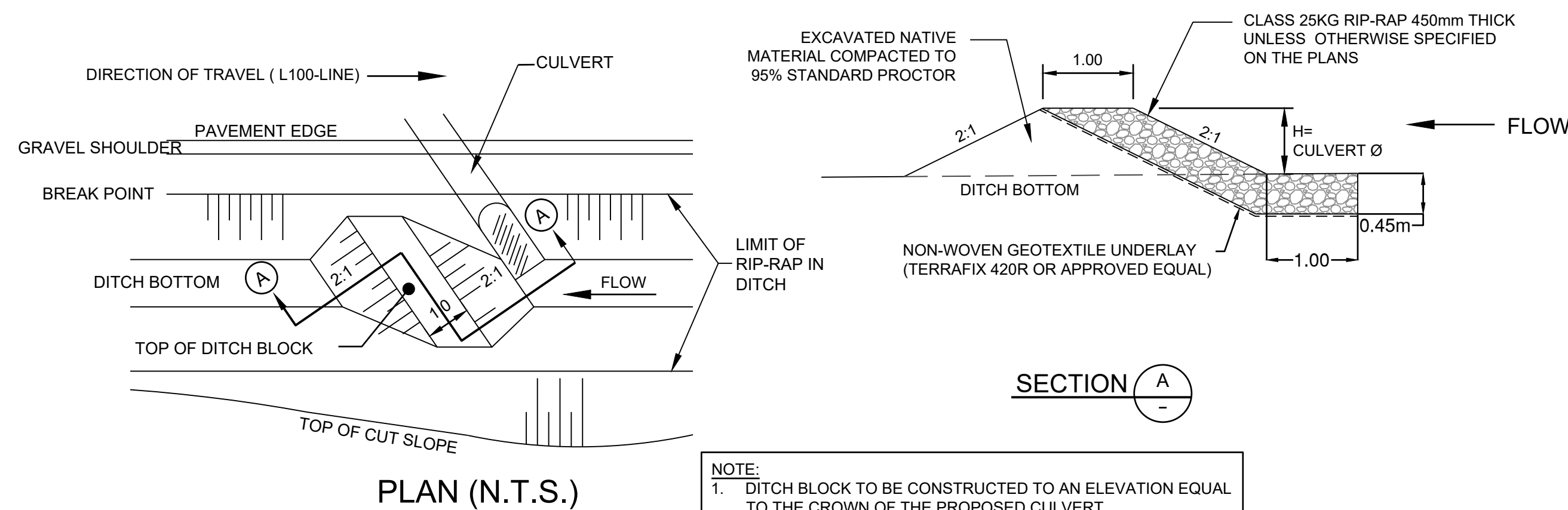
CULVERT RIPRAP IN FILL (PLAN)



CULVERT RIPRAP IN CUT (SECTION)



CULVERT RIPRAP IN FILL (SECTION)



- NOTE:
1. DITCH BLOCK TO BE CONSTRUCTED TO AN ELEVATION EQUAL TO THE CROWN OF THE PROPOSED CULVERT.
 2. 1.0m TOP SHALL BE PARALLEL TO THE SKEW NO. OF THE PIPE.

DITCH BLOCK DETAIL
(SEE DWGS 21-0273-ST1-1 TO ST1-11 FOR LOCATIONS)

NOT TO SCALE

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NOT FOR CONSTRUCTION

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage ditch	Water blowoff	Utility pole (joint pole)	Vegetation Canister
Sanitary sewer, MH	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, dovill	Vegetation Shrub
Sanitary force main	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

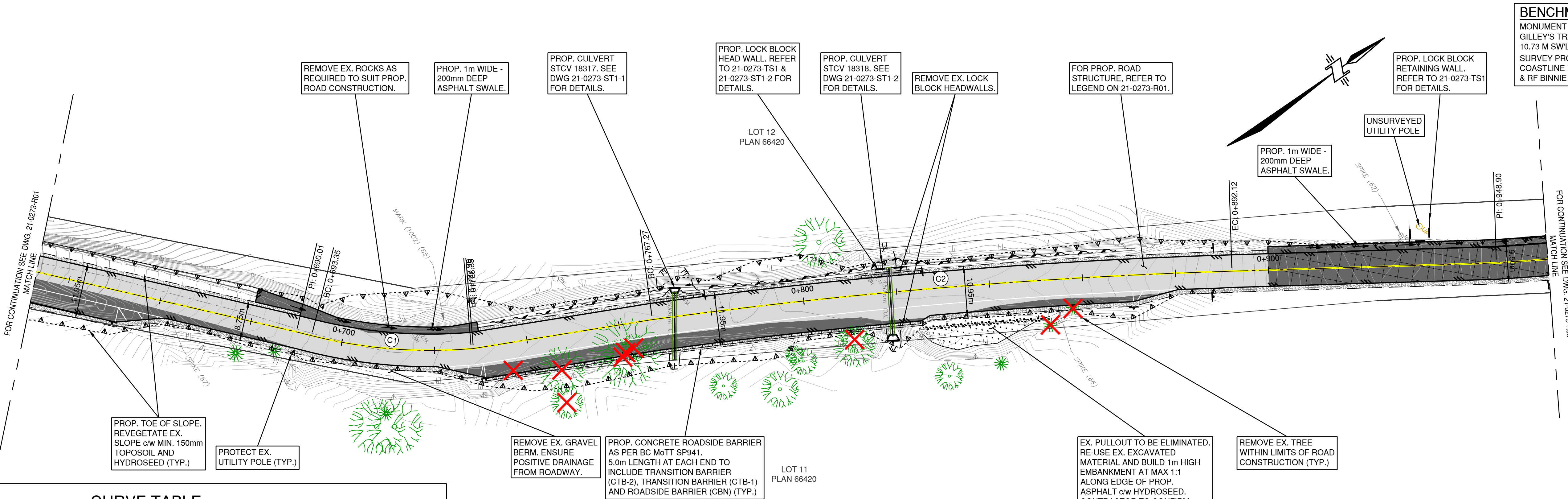
No.	Date	By	Revisions
A	2026-05-27	BB	ISSUED FOR TENDER

Design by	Date
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RA	2026-05-27
Approved by	Date
CS	2026-05-27



Scale	N.T.S.	Scale	N.T.S.
horiz.		vert.	
Sheet	3	of	30
Eng. Project No.	21-0273		

Project	QUARRY ROAD UPGRADES CALGARY DR - MACINTYRE CREEK
Description	TYPICAL SECTIONS
File	21-0273-TS2
REV.	A



BENCHMARK:
MONUMENT 77H4129 LOCATED AT INTERSECTION OF
GILLEY'S TRAIL, QUARRY RD. & VICTORIA DR.,
10.73 M SWLY FROM ERN FENCE, ELEV. 17.527M
SURVEY PROVIDED BY
COASTLINE LAND SURVEYING LTD.
& RF BINNIE & ASSOCIATES LTD.

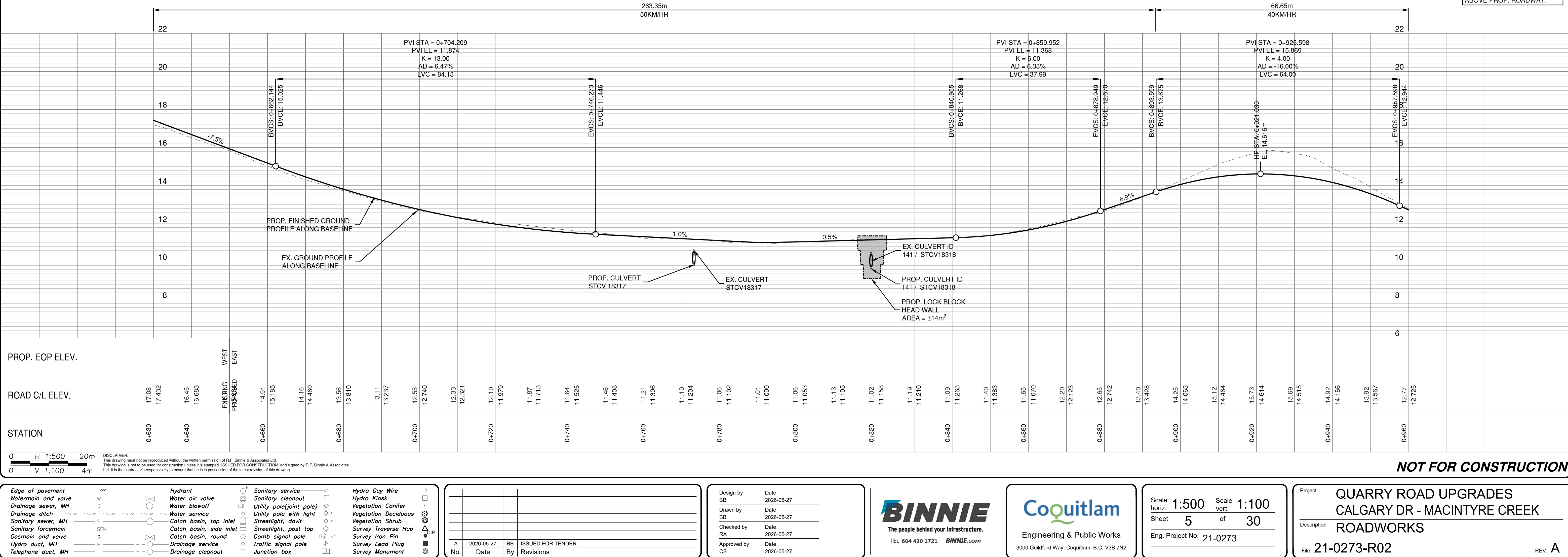
CURVE TABLE

Curve #	Radius	Center (North)	Center (East)	Delta Angle	Arc	BC (North)	EC (East)	EC (North)	EC(East)
C1	105.000	5461029.641	521238.273	018° 51' 05"	34.547	5460950.748	521307.562	5460977.368	521329.337
C2	1190.000	5460475.535	522408.055	006° 00' 42"	124.859	5461012.894	521346.289	5461121.139	521408.406

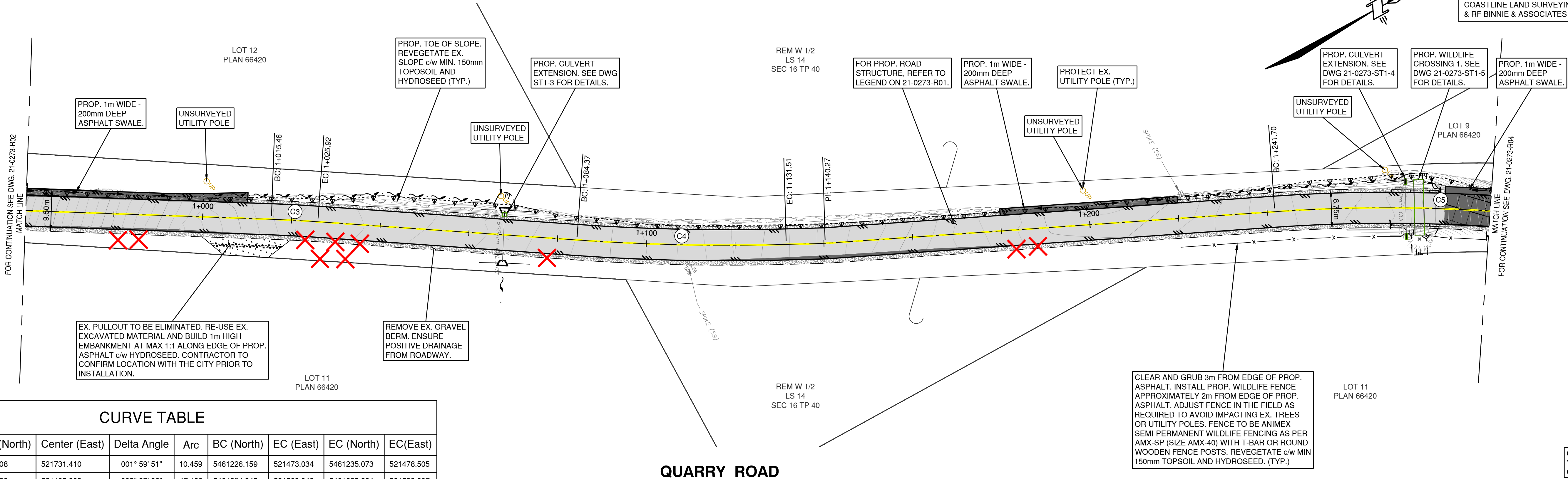
QUARRY ROAD

CLEAR AND GRUB ALL
VEGETATION WITHIN LIMITS
OF ROAD CONSTRUCTION

TRIM EX. TREE BRANCHES AS
REQUIRED TO PROVIDE MIN.
5.0m VERTICAL CLEARANCE
ABOVE PROP. ROADWAY.

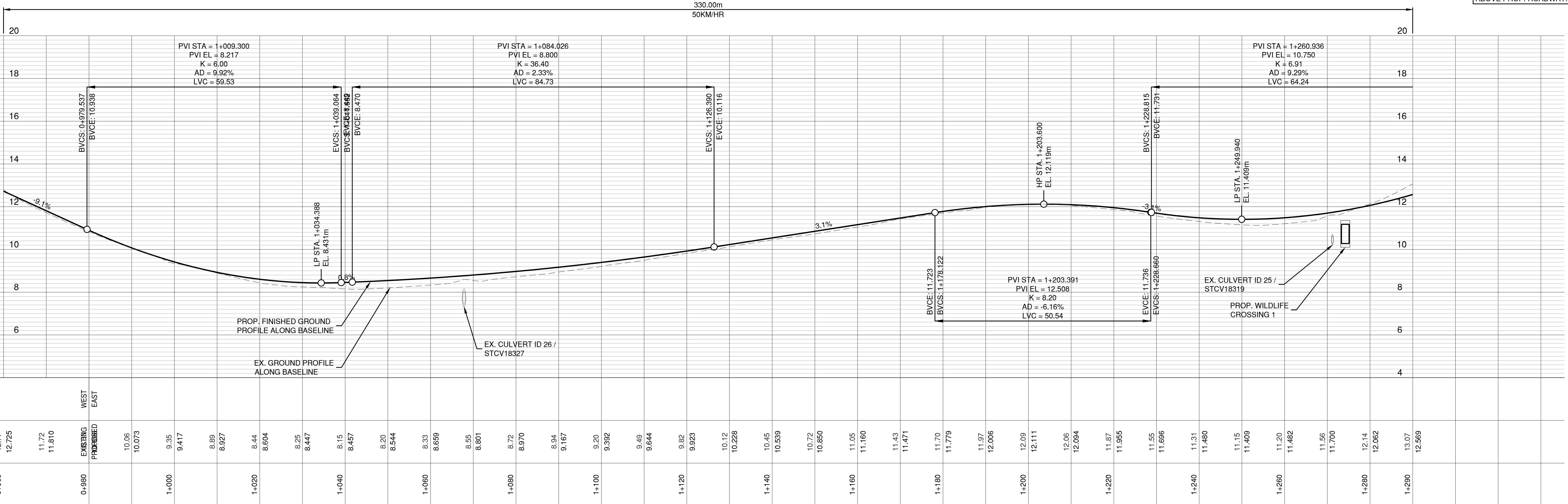


BENCHMARK:
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10.73 M SWLY FROM ERN FENCE, ELEV. 17.527M
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CURVE TABLE

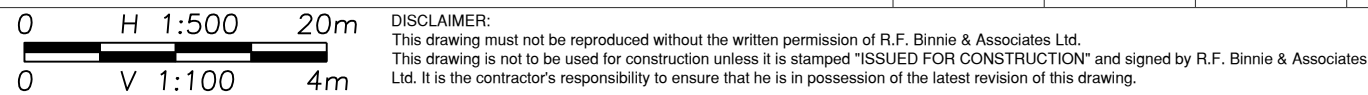
Curve #	Radius	Center (North)	Center (East)	Delta Angle	Arc	BC (North)	EC (East)	EC (North)	EC (East)
C3	300.000	5461073.708	521731.410	001° 59' 51"	10.459	5461226.159	521473.034	5461235.073	521478.505
C4	480.000	5461542.529	521105.293	005° 37' 36"	47.139	5461284.345	521509.942	5461325.264	521533.307
C5	360.000	5461276.197	521906.937	011° 51' 53"	74.548	5461425.384	521579.305	5461489.558	521616.978



PROP. EOP ELEV.

ROAD C/L ELEV.

STATION



Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole (joint pole)	Vegetation Canister
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, dovil	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, drain	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
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RA	2026-05-27
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CS	2026-05-27

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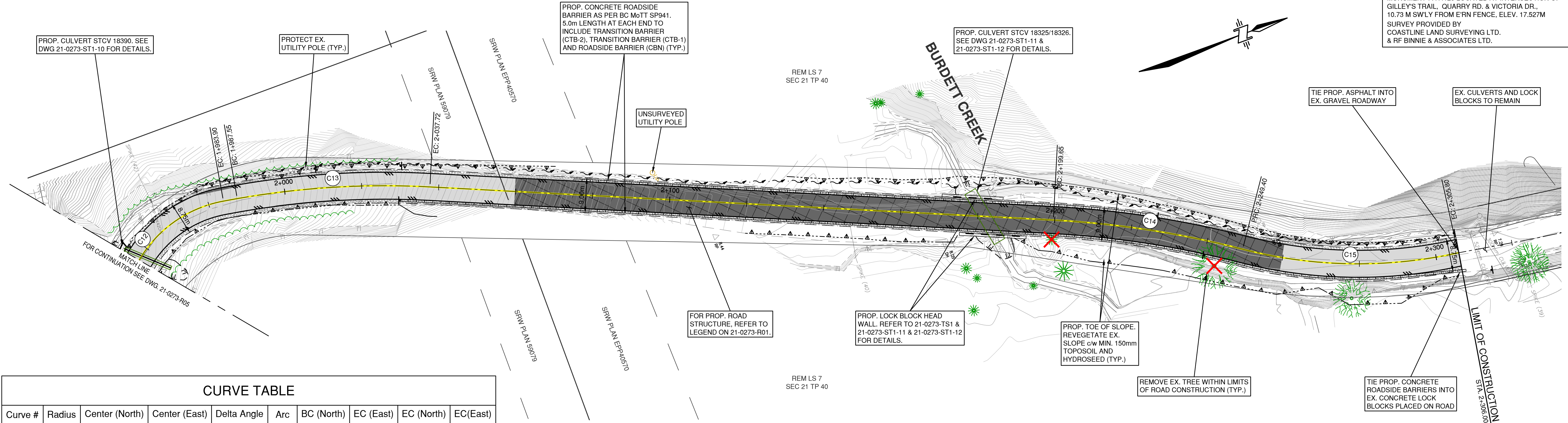
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale
horiz. 1:500
Sheet 6 of 30
Eng. Project No. 21-0273

Project
QUARRY ROAD UPGRADES
CALGARY DR - MACINTYRE CREEK
Description
ROADWORKS
File: 21-0273-R03
REV. A

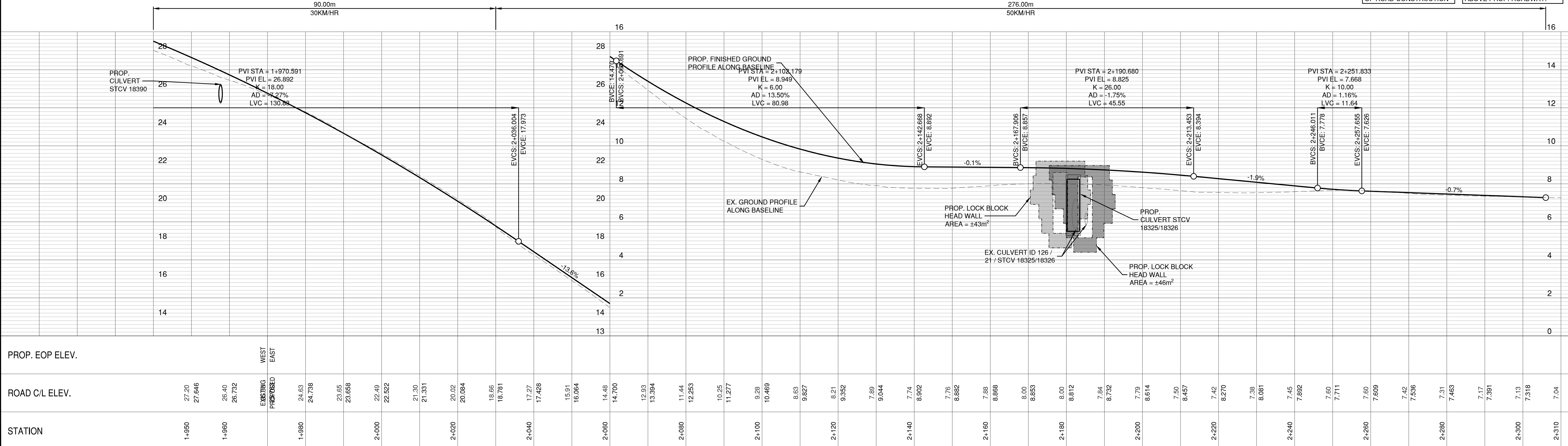
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BENCHMARK:
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10.73 M SWLY FROM ERN FENCE, ELEV. 17.527M
SURVEY PROVIDED BY
COASTLINE LAND SURVEYING LTD.
& RF BINNIE & ASSOCIATES LTD.



CURVE TABLE									
Curve #	Radius	Center (North)	Center (East)	Delta Angle	Arc	BC (North)	EC (East)	EC (North)	EC(East)
C13	220.560	5461995.680	522011.498	013° 01' 55"	50.166	5462034.244	521794.336	5462082.219	521808.625
C14	250.000	5462133.072	522102.112	011° 24' 06"	49.749	5462231.162	521872.160	5462274.685	521896.089
C15	120.000	5462342.659	521797.197	026° 55' 44"	56.399	5462274.685	521896.089	5462326.842	521916.150

QUARRY ROAD



0 1:500 20m
0 1:100 4m

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Edge of pavement
Watermain and valve
Drainage sewer, MH
Drainage ditch
Sanitary sewer, MH
Sanitary force main
Gasmain and valve
Hydro duct, MH
Telephone duct, MH

Hydrant
Water air valve
Water blowoff
Water service
Catch basin, top inlet
Catch basin, side inlet
Comb signal pole
Drainage service
Drainage cleanout

Sanitary service
Sanitary cleanout
Utility pole (joint pole)
Utility pole with light
Streetlight, dovill
Streetlight, post top
Comb signal pole
Traffic signal pole
Junction box

Hydro Guy Wire
Hydro Kiosk
Vegetation Canister
Vegetation Deciduous
Vegetation Shrub
Survey Traverse Hub
Survey Iron Pin
Survey Lead Plug
Survey Monument

Design by	BB	Date	2026-05-27
Drawn by	BB	Date	2026-05-27
Checked by	RA	Date	2026-05-27
Approved by	CS	Date	2026-05-27

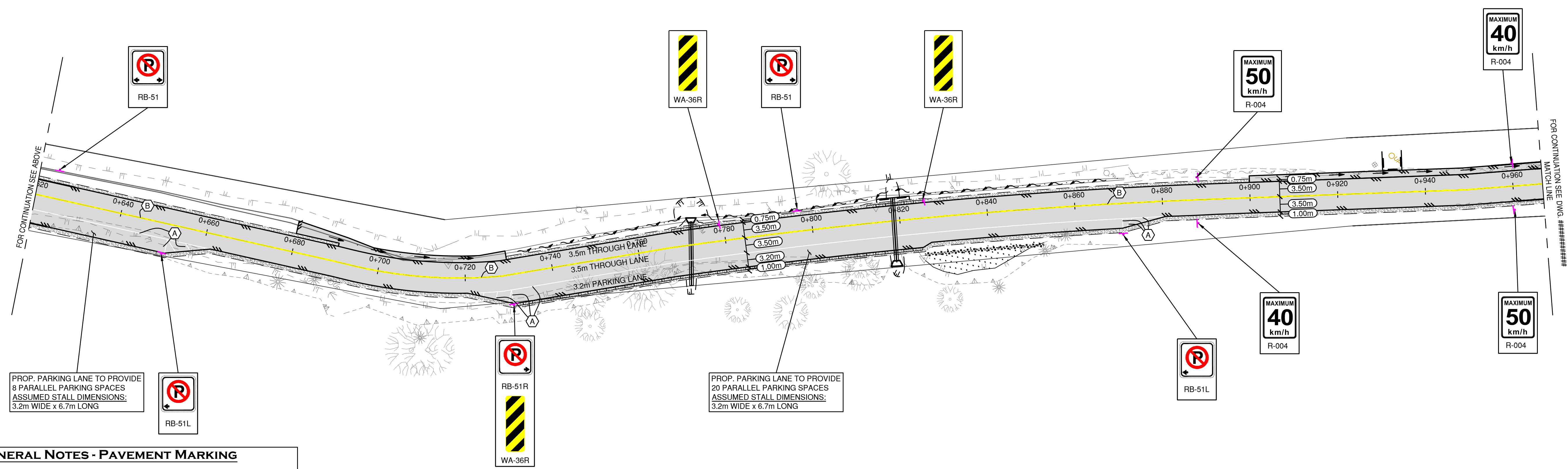
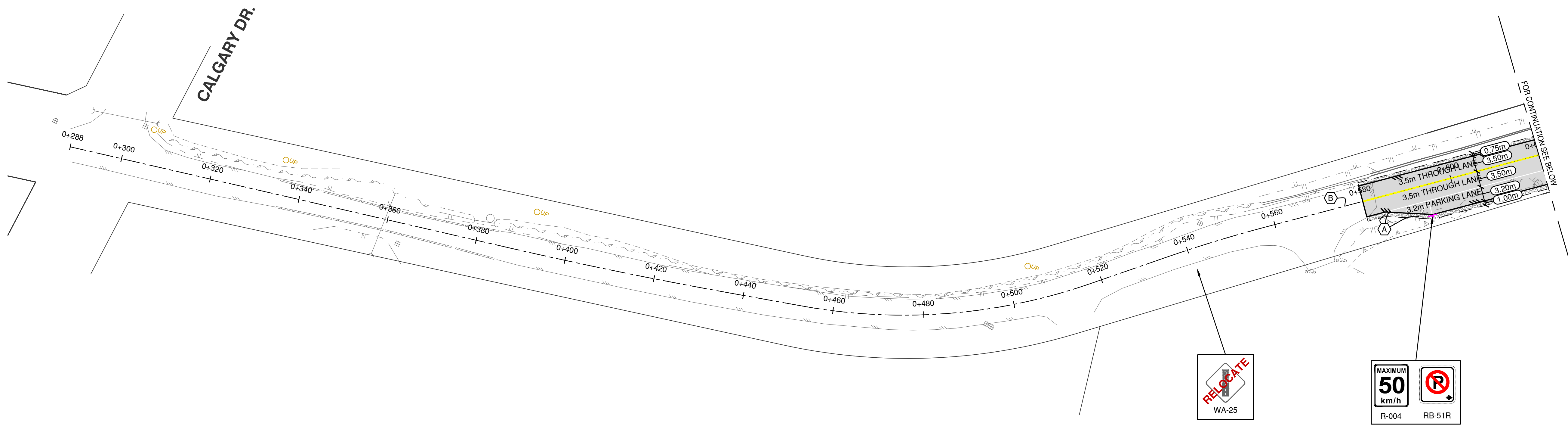
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Scale
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Sheet 9 of 30
Eng. Project No. 21-0273

Project
Description
File: 21-0273-R06
REV: A

BENCHMARK:
MONUMENT 77H4129 LOCATED AT INTERSECTION OF
GILLEY'S TRAIL, QUARRY RD. & VICTORIA DR.,
10.73 M SWLY FROM ERN FENCE, ELEV. 17.527M
SURVEY PROVIDED BY
COASTLINE LAND SURVEYING LTD.
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- GENERAL NOTES - PAVEMENT MARKING**
- ALL PAVEMENT MARKINGS AND SIGNS SHALL BE AS PER THE CURRENT EDITION TAC MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC).
 - ALL PAVEMENT MARKING LINES ARE TO BE PAINT.
 - SIGNAGE PLACED ON PROP. CONCRETE ROADSIDE BARRIERS TO BE CLAMPED

- KEY NOTES**
- A 0.1m WIDE SOLID WHITE LINE AS PER MUTCD FIGURE C1-1 (TYP.)
 - B 0.1m WIDE DOUBLE SOLID YELLOW LINE AS PER MUTCD FIGURE C1-1 (TYP.)

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole (joint pole)	Vegetation Canister
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
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Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Drainage service	Traffic signal pole	Survey Iron Pin
Hydro duct, MH	Drainage cleanout	Junction box	Survey Lead Plug
Telephone duct, MH			Survey Monument

No.	Date	By	Revisions
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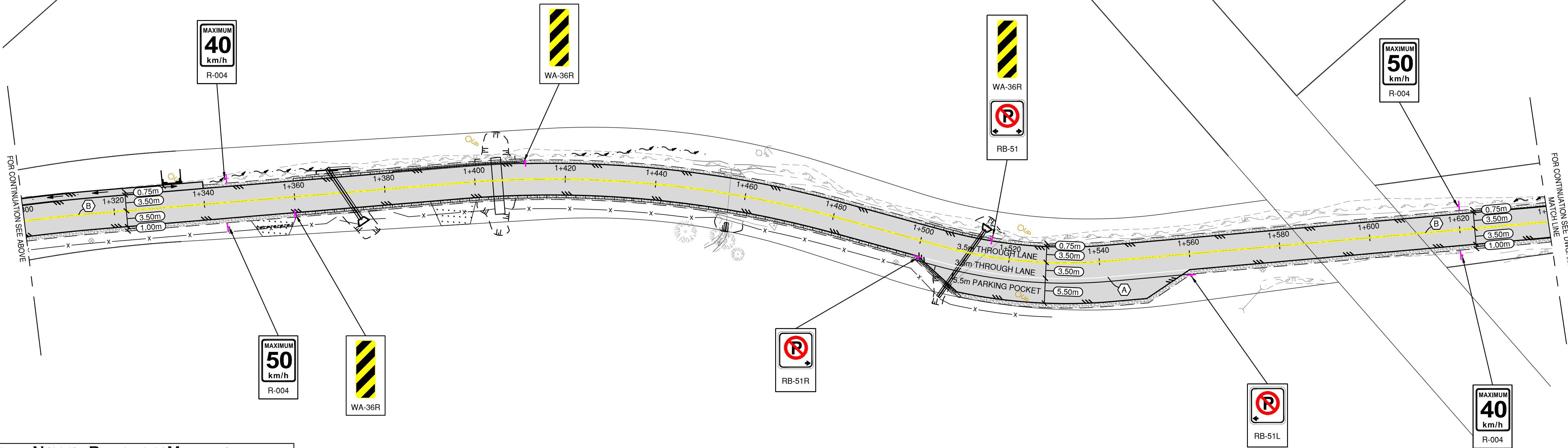
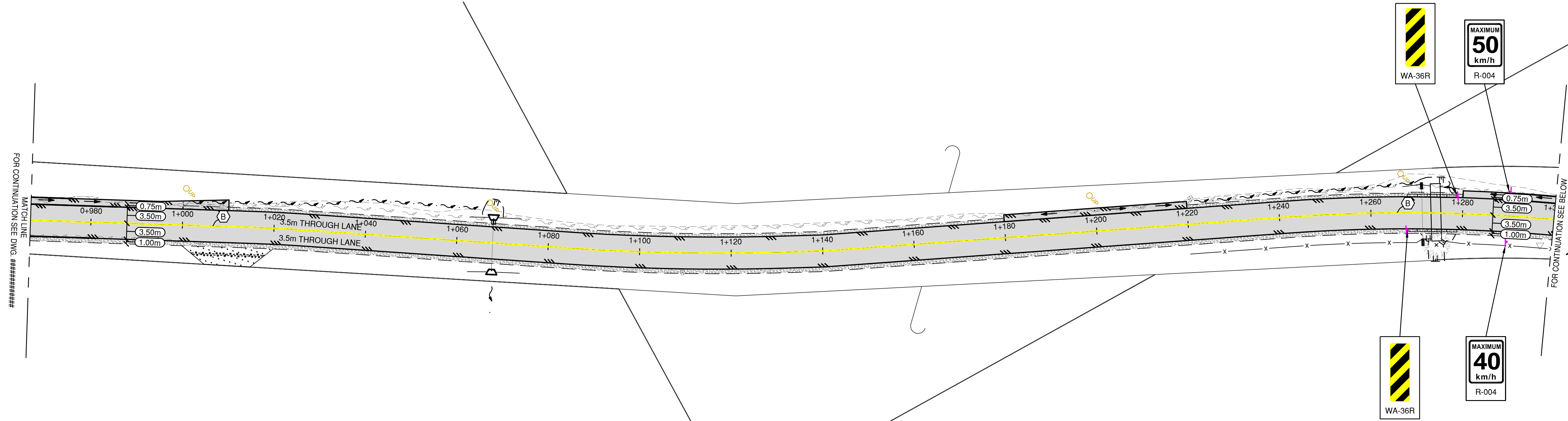
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Scale	1:500	Scale	1:500
horiz.		vert.	
Sheet	10	of	30
Eng. Project No.	21-0273		

Project
QUARRY ROAD UPGRADES
CALGARY DR - MACINTYRE CREEK
Description
PAVEMENT MARKING & SIGNAGE
File: 21-0273-PM01
REV: A

BENCHMARK:
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KEY NOTES

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- 0.1m WIDE DOUBLE SOLID YELLOW LINE AS PER MUTCD FIGURE C1-1 (TYP.)

0 1:500 20m
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Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

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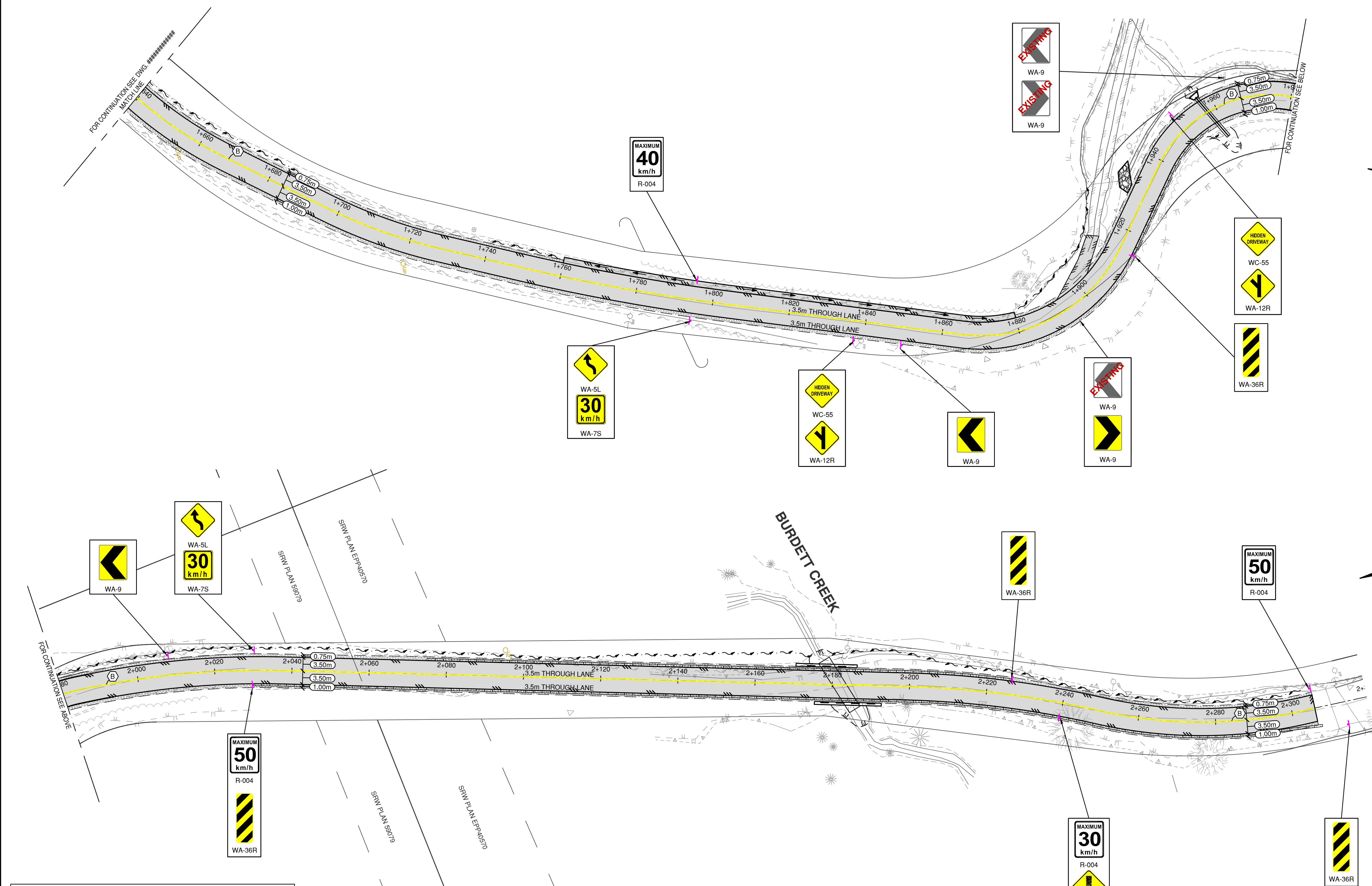
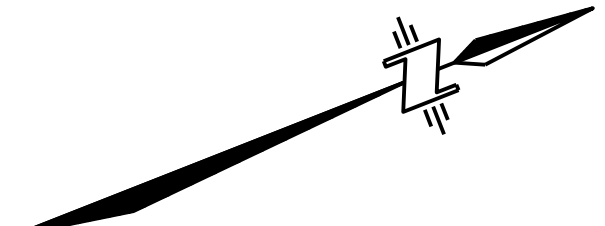
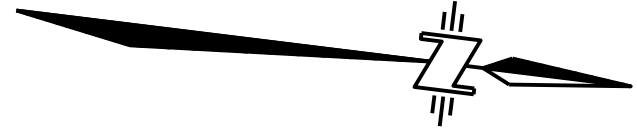
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Scale	1:500	Scale	1:500
horiz.		vert.	
Sheet	11	of	30
Eng. Project No.	21-0273		

Project	QUARRY ROAD UPGRADES
	CALGARY DR - MACINTYRE CREEK
Description	PAVEMENT MARKING & SIGNAGE
File	21-0273-PM02
REV.	A

BENCHMARK:
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- KEY NOTES**
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Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
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Drainage ditch	Water blowoff	Utility pole(joint pole)	Vegetation Conifer
Sanitary sewer, MH	Catch basin, top inlet	Utility pole with light	Vegetation Deciduous
Sanitary forcemain	Catch basin, side inlet	Streetlight, dovil	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Streetlight, post top	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

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Scale	1:500	Scale	1:500
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Sheet	12	of	30
Eng. Project No.	21-0273		

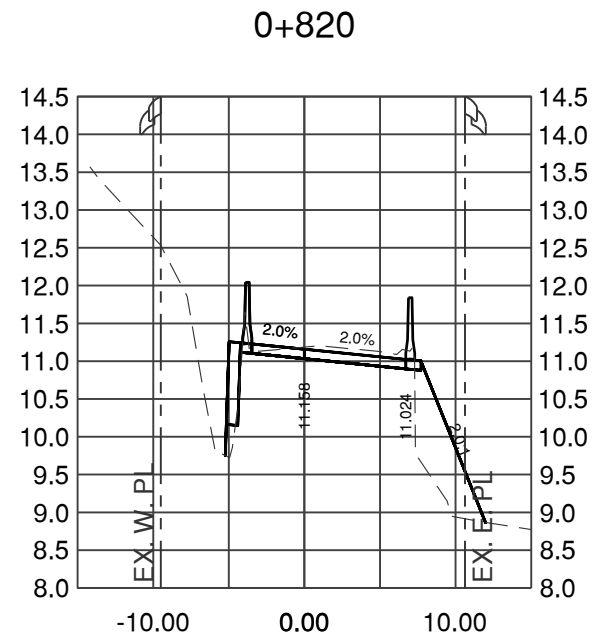
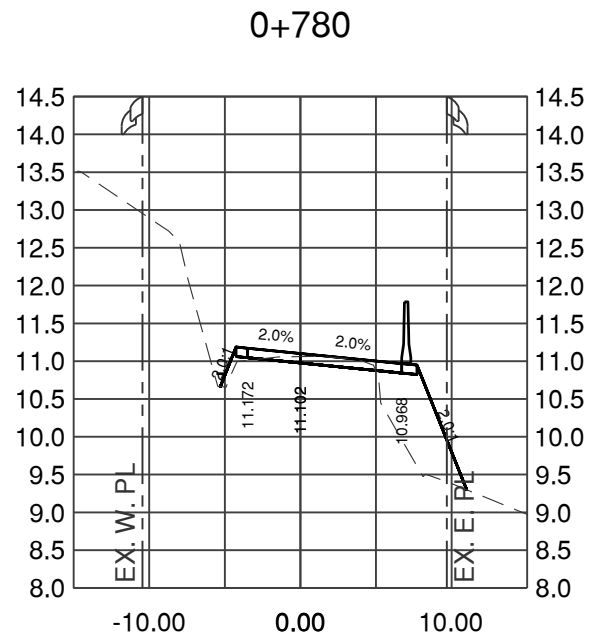
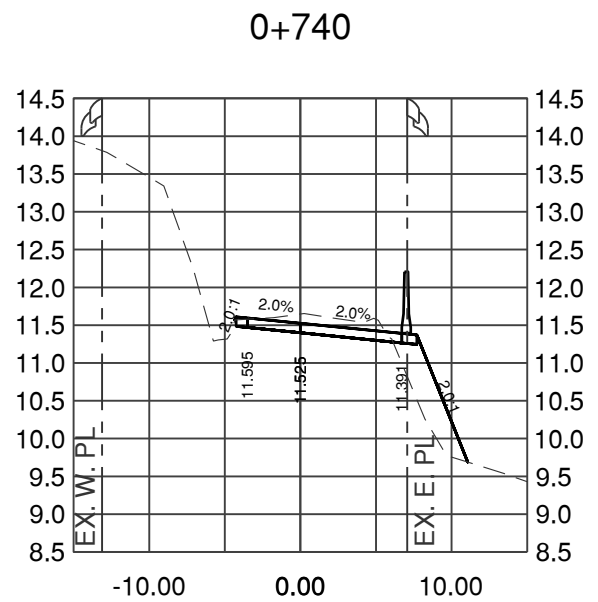
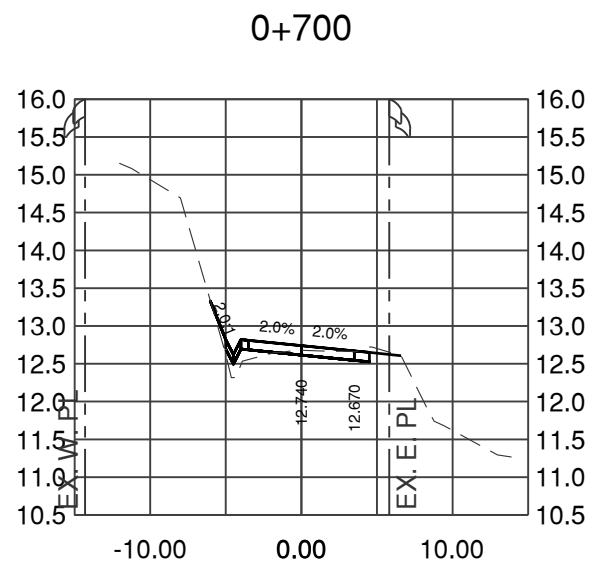
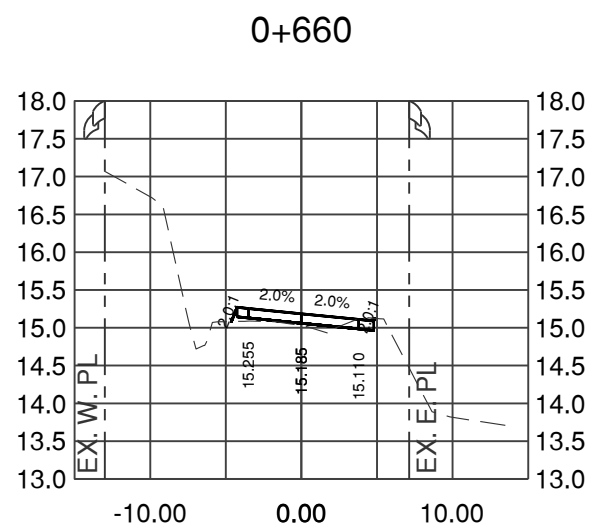
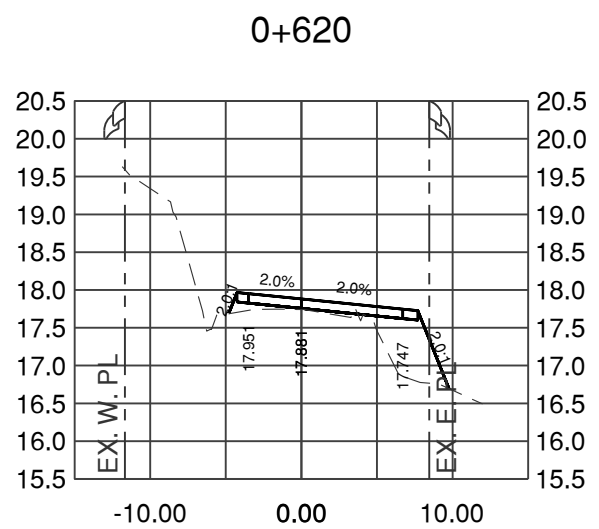
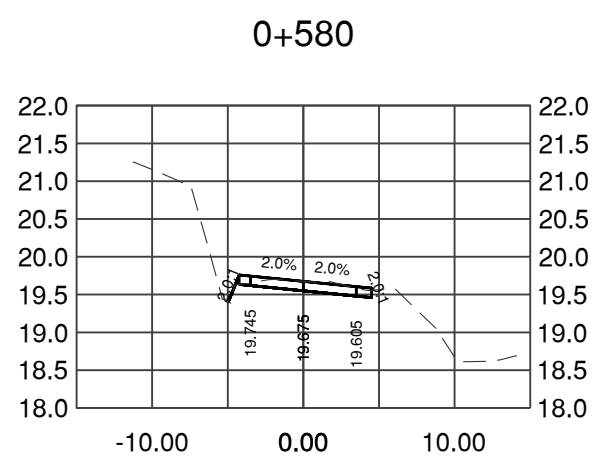
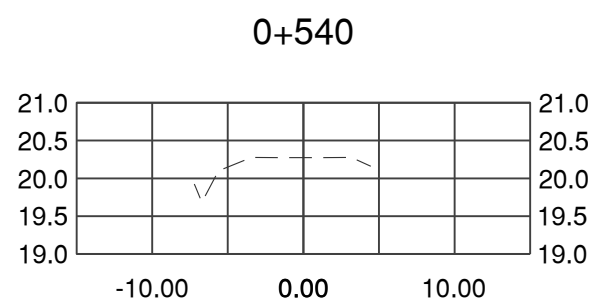
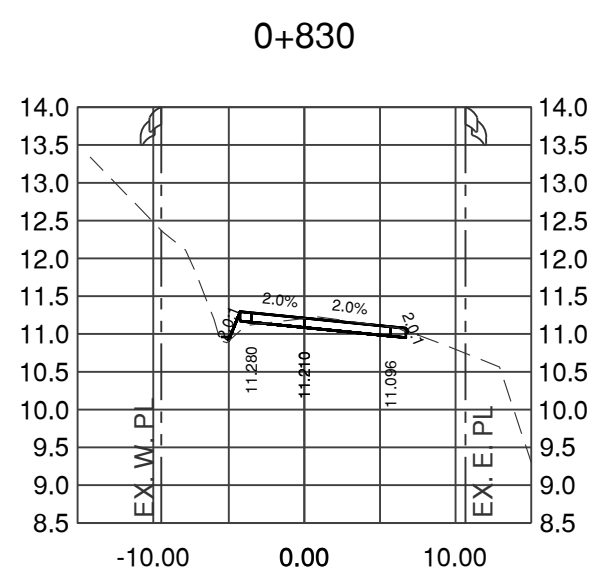
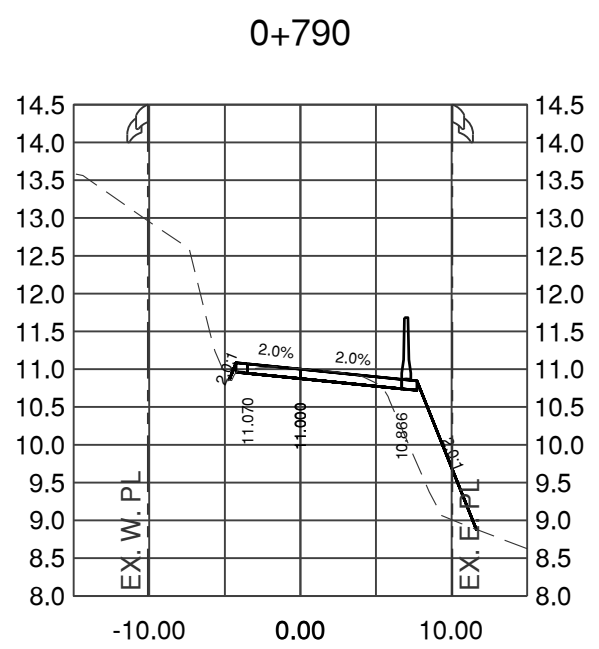
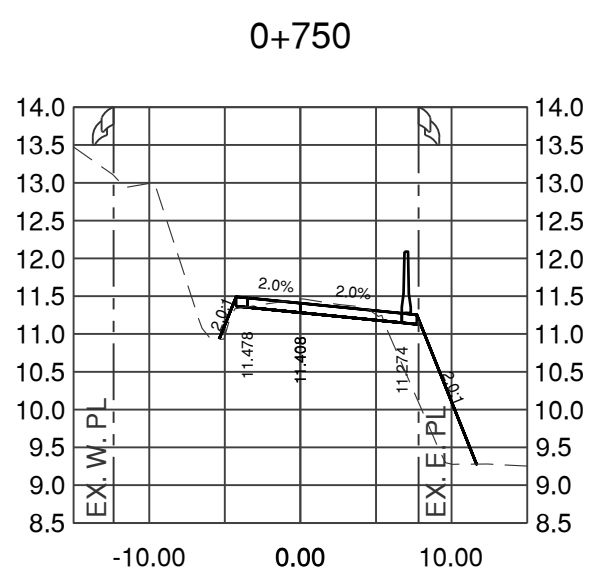
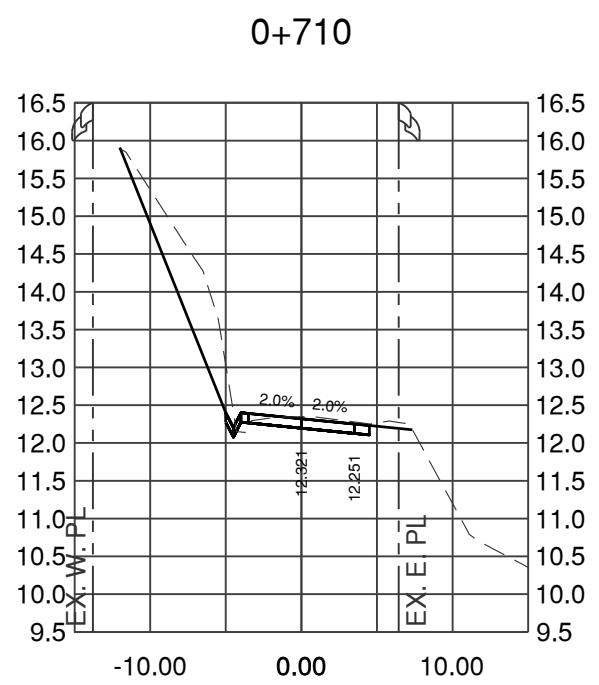
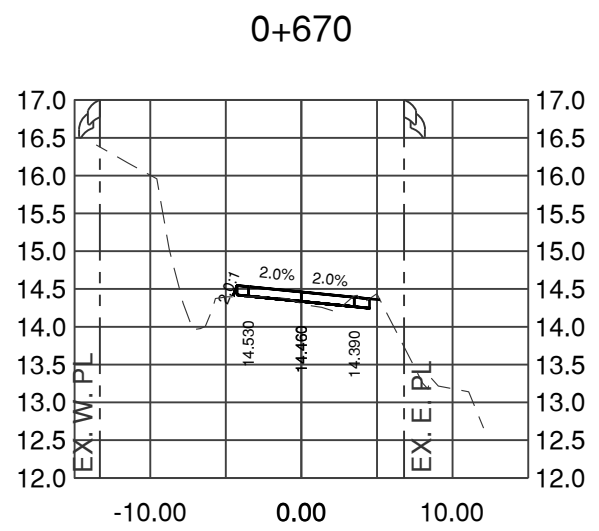
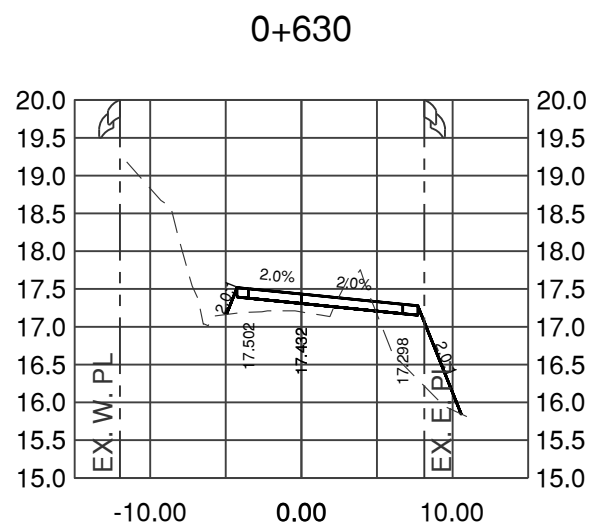
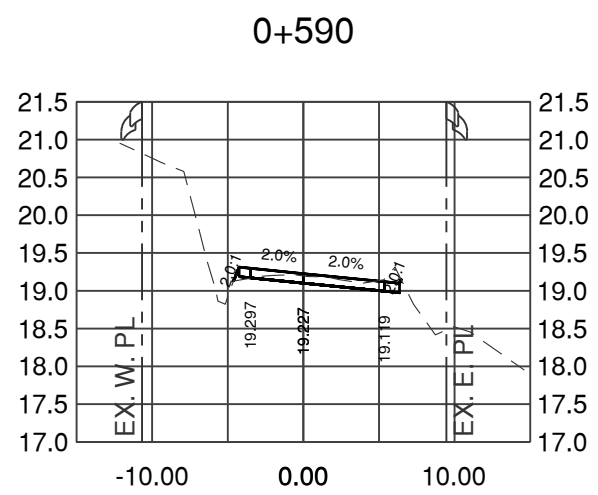
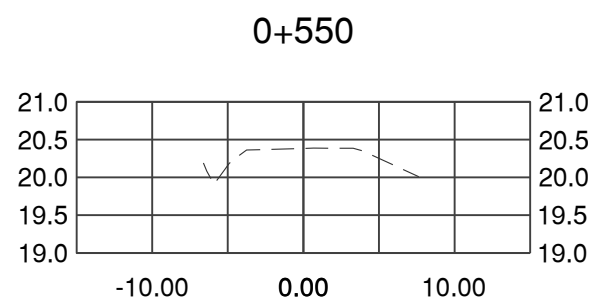
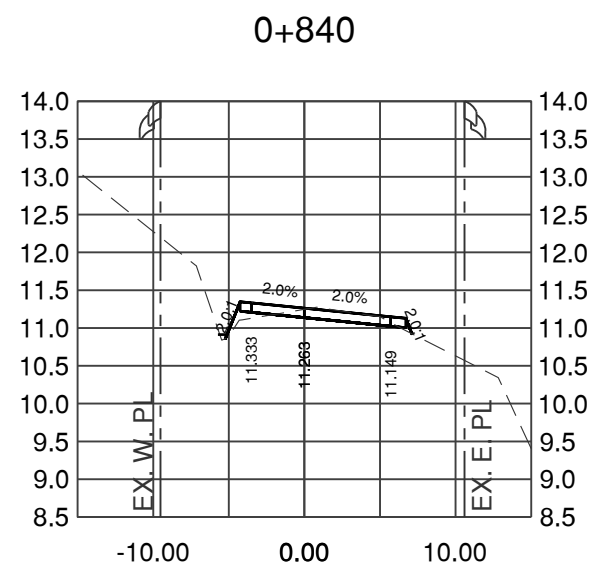
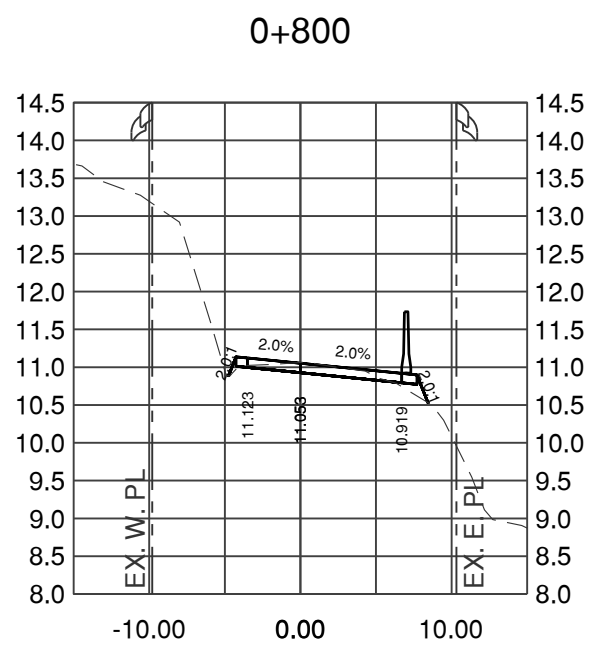
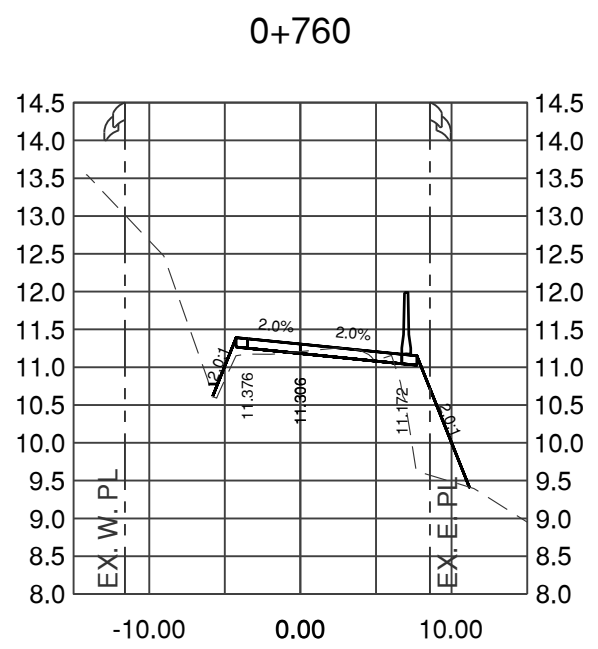
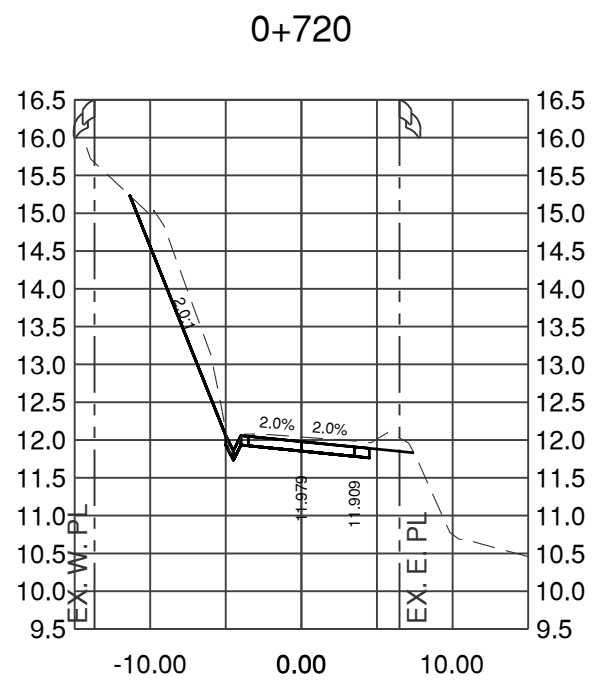
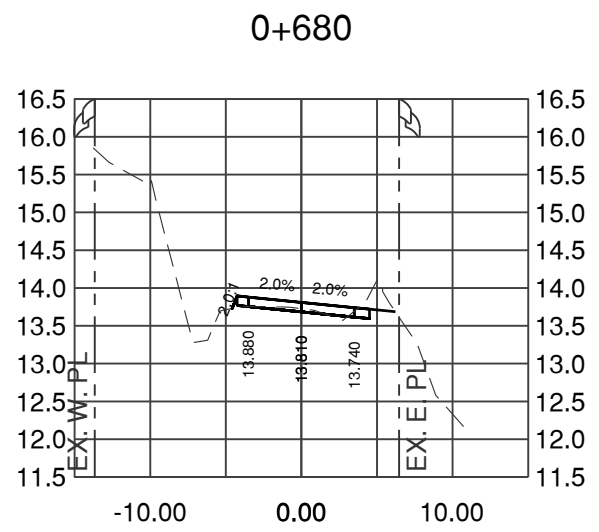
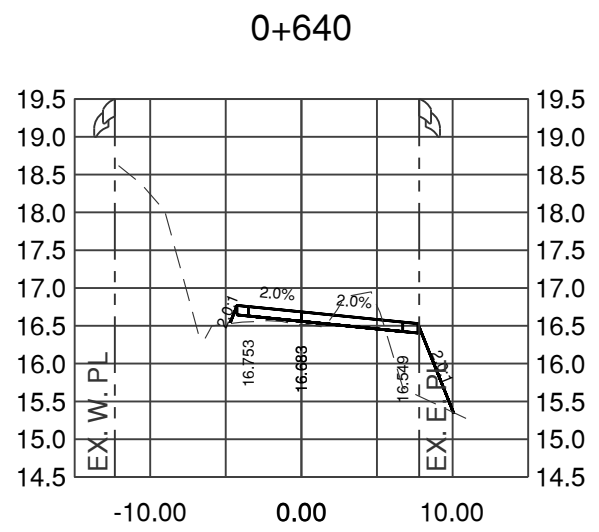
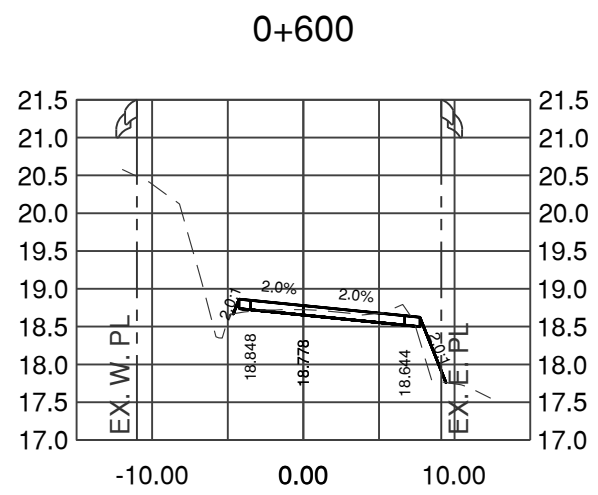
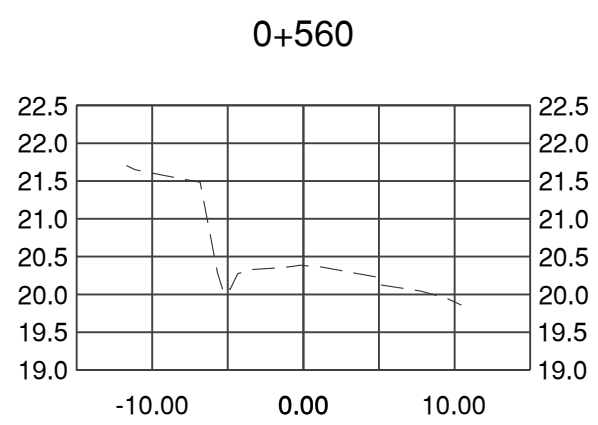
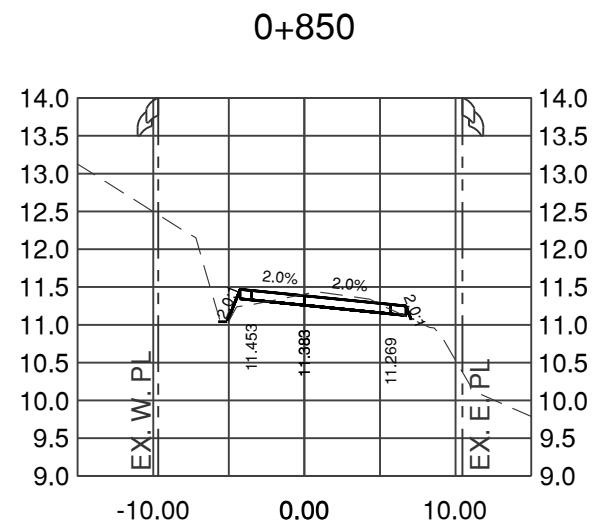
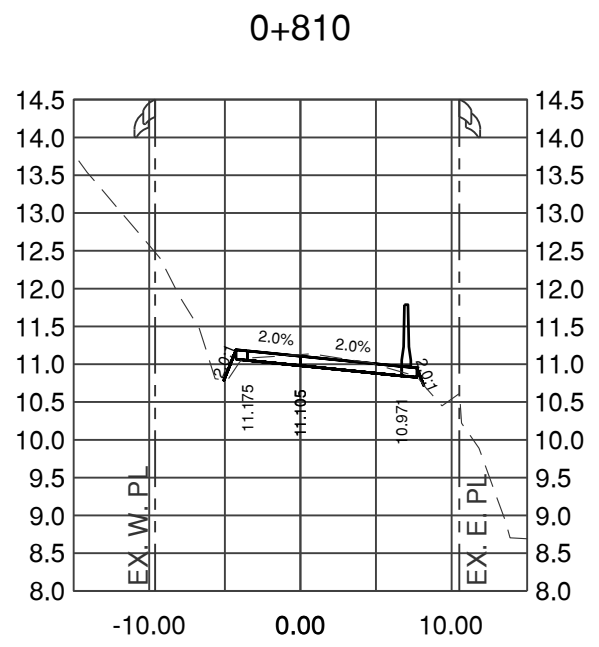
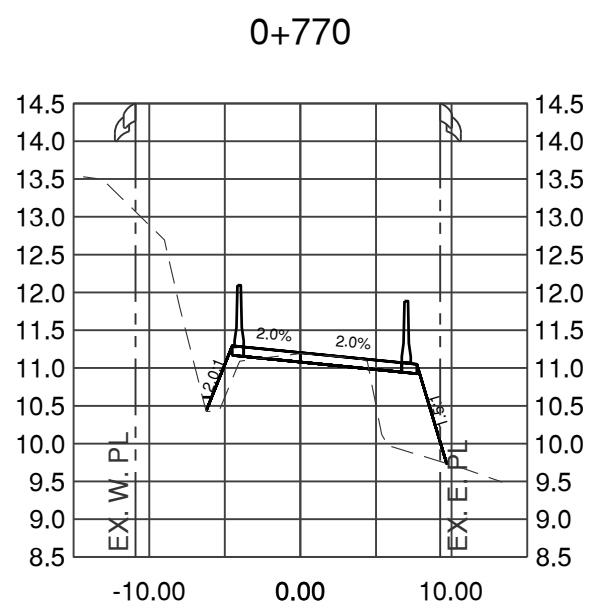
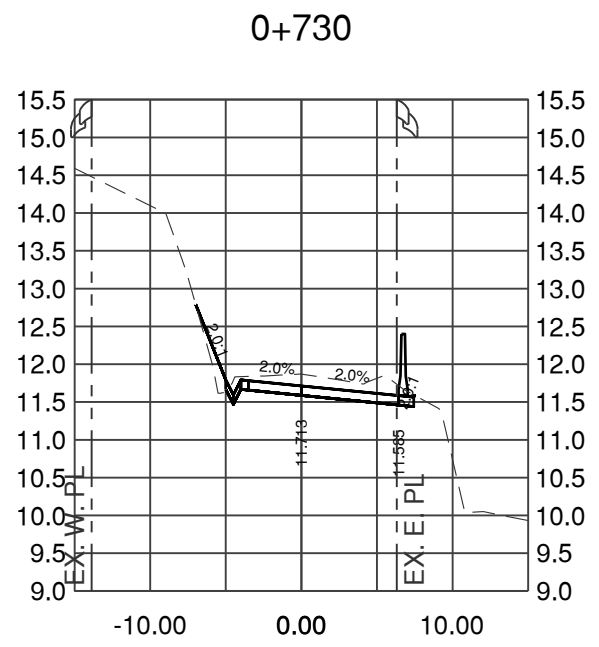
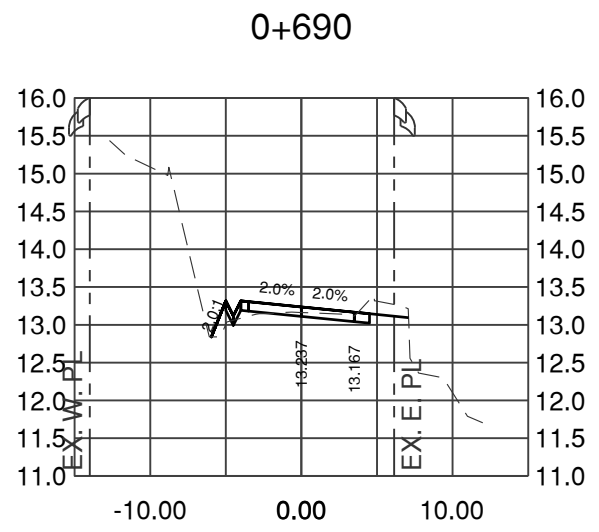
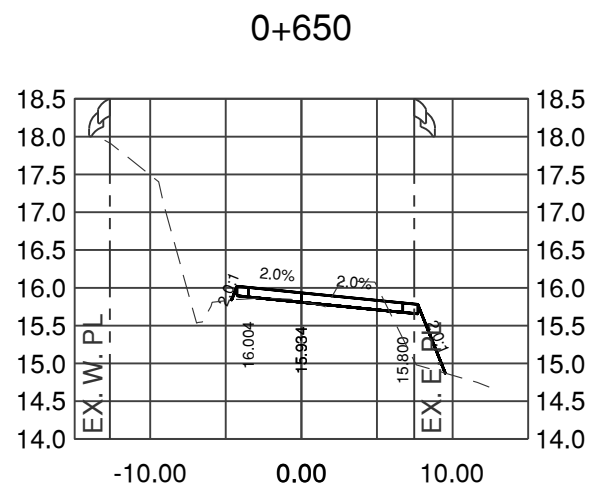
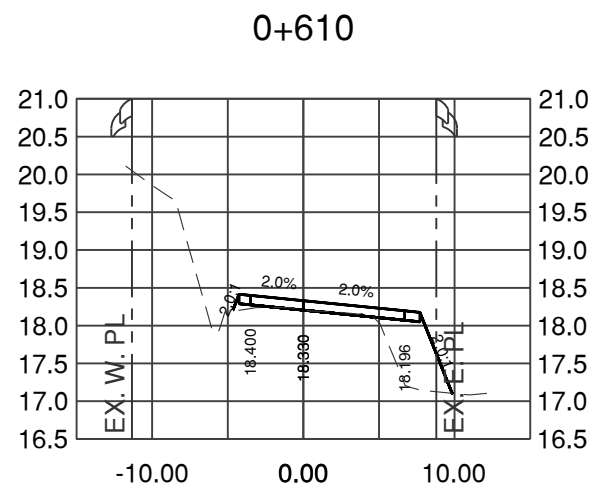
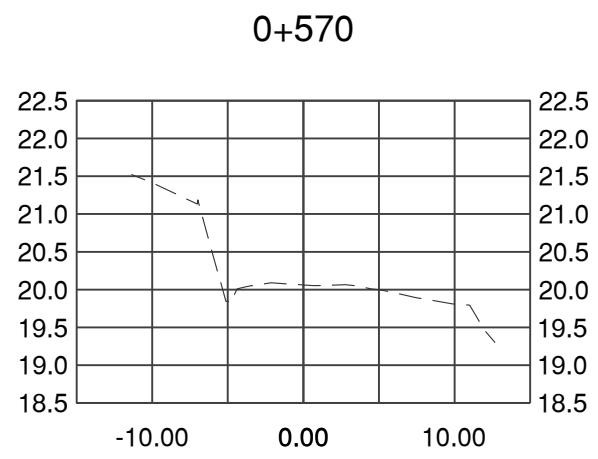
Project
**QUARRY ROAD UPGRADES
CALGARY DR - MACINTYRE CREEK**

Description
PAVEMENT MARKING & SIGNAGE

File:
21-0273-PM03

REV: **A**

BENCHMARK:
MONUMENT 77H4129 LOCATED AT INTERSECTION OF
GILLEY'S TRAIL, QUARRY RD. & VICTORIA DR.,
10.73 M SWLY FROM ERN FENCE, ELEV. 17.527M
SURVEY PROVIDED BY
COASTLINE LAND SURVEYING LTD.
& RF BINNIE & ASSOCIATES LTD.



0 1:500 20m
0 V 1:100 4m

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LME. It is the contractor's responsibility to ensure that he is in possession of the latest revision of this drawing.

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage ditch	Water blowoff	Utility pole (joint pole)	Vegetation Canister
Sanitary sewer, MH	Catch basin, top inlet	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, side inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, round	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Drainage service	Traffic signal pole	Survey Iron Pin
Hydro duct, MH	Drainage cleanout	Junction box	Survey Lead Plug
Telephone duct, MH			Survey Monument

No.	Date	By	Revisions
A	2026-05-27	BB	ISSUED FOR TENDER

Design by	Date
BB	2026-05-27
Drawn by	Date
BB	2026-05-27
Checked by	Date
RA	2026-05-27
Approved by	Date
CS	2026-05-27

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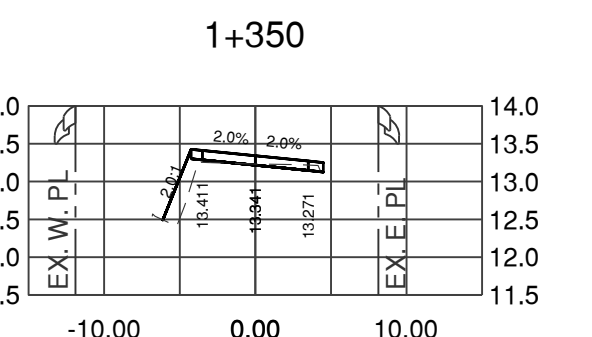
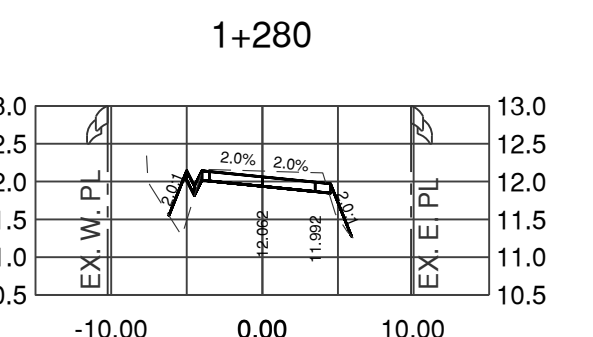
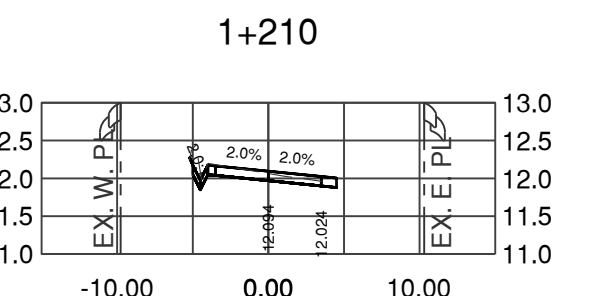
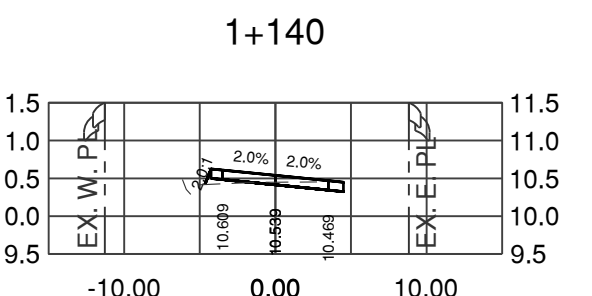
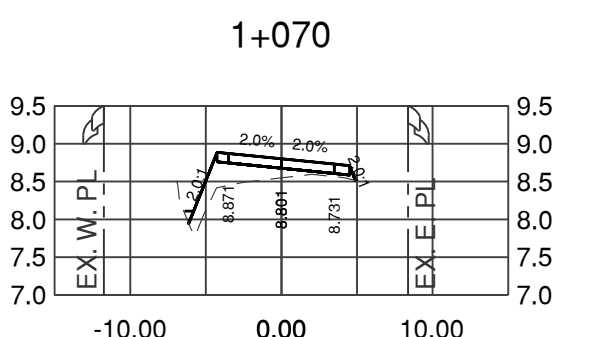
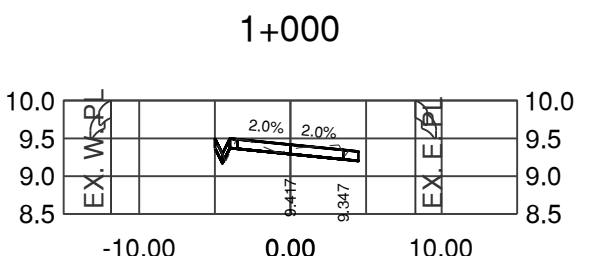
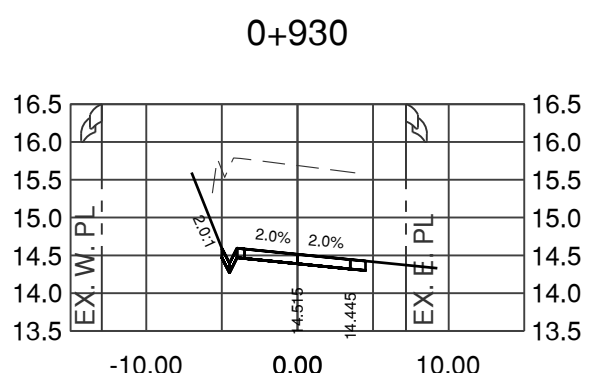
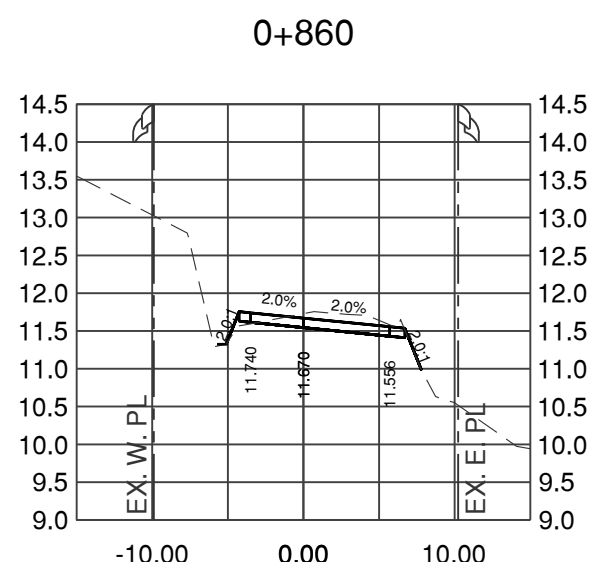
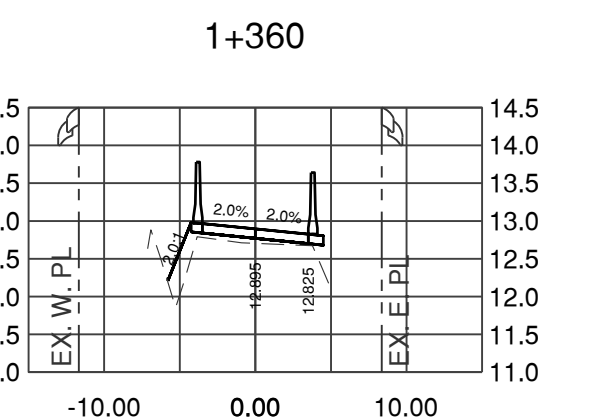
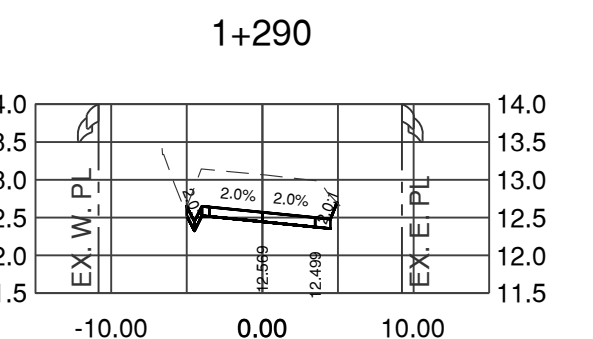
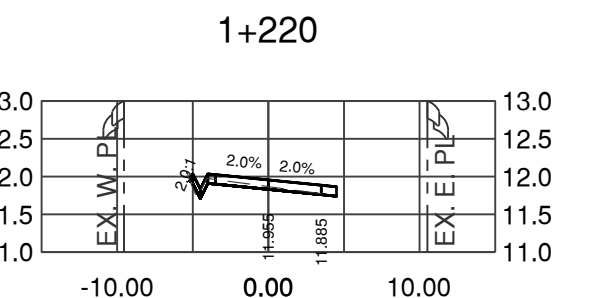
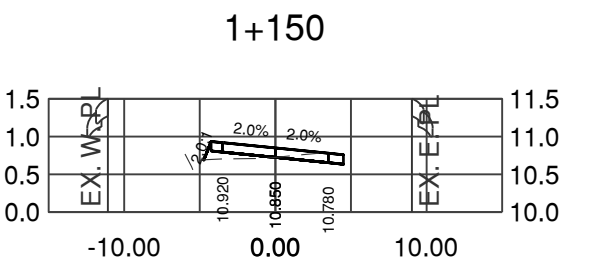
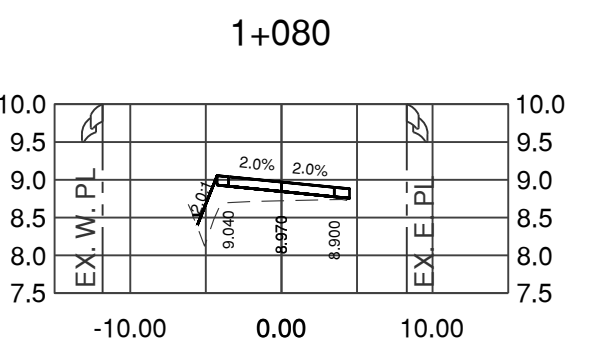
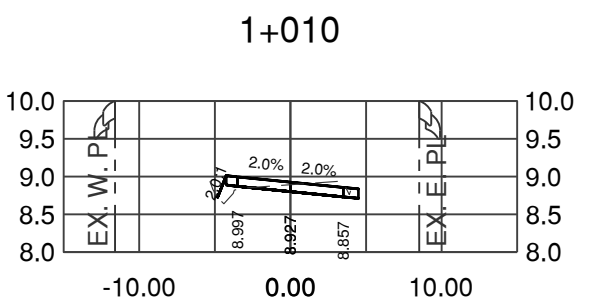
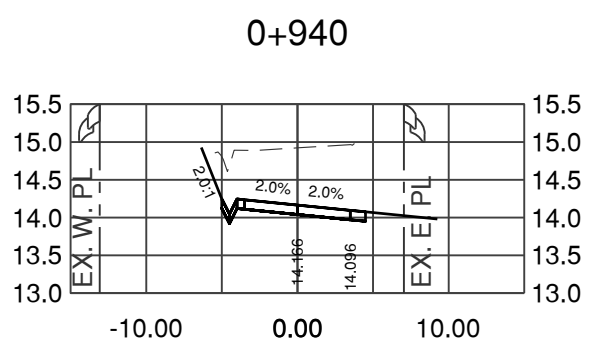
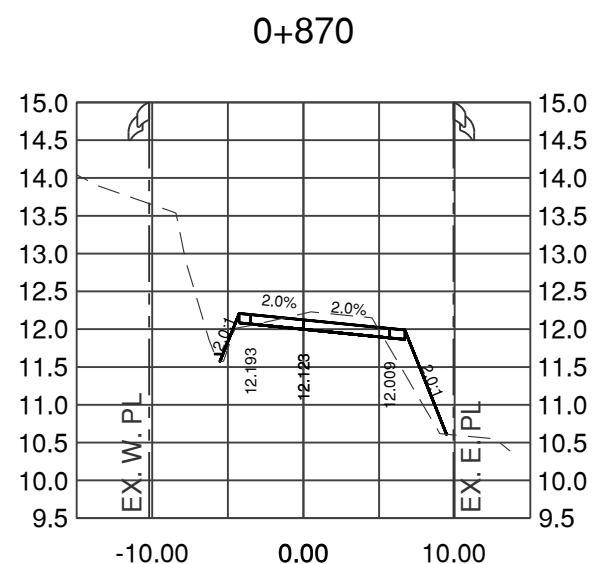
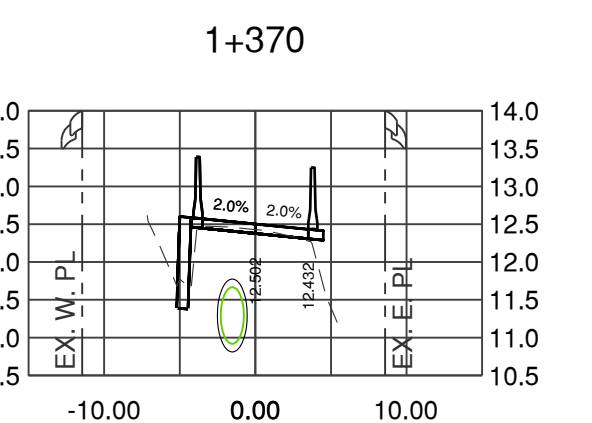
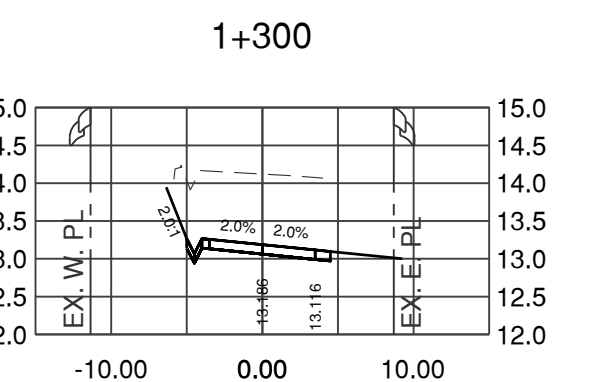
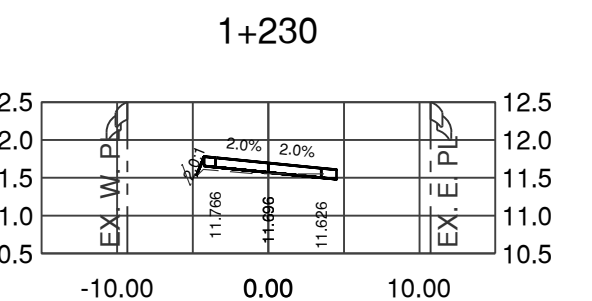
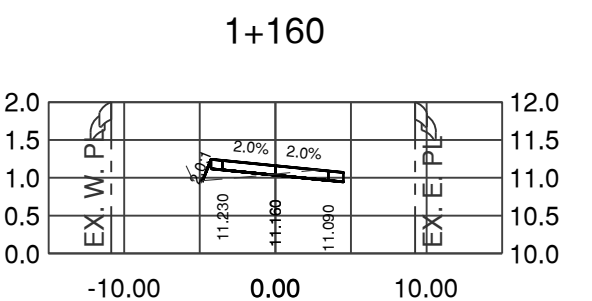
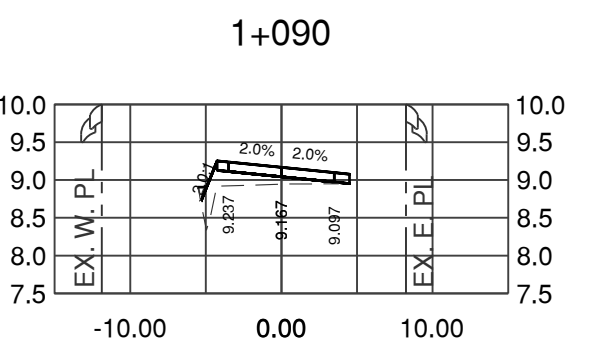
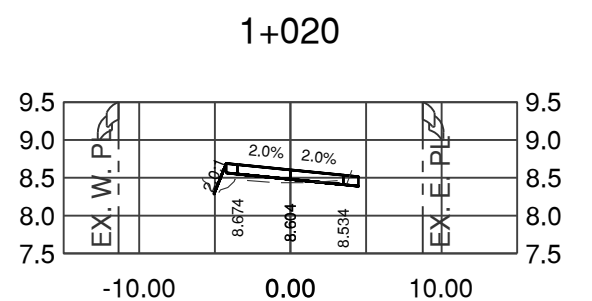
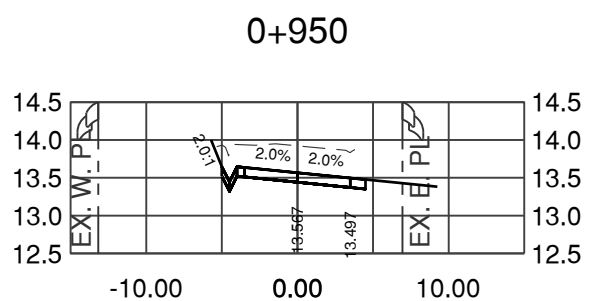
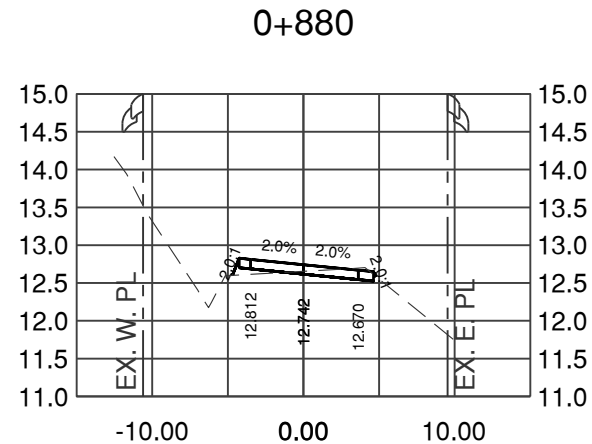
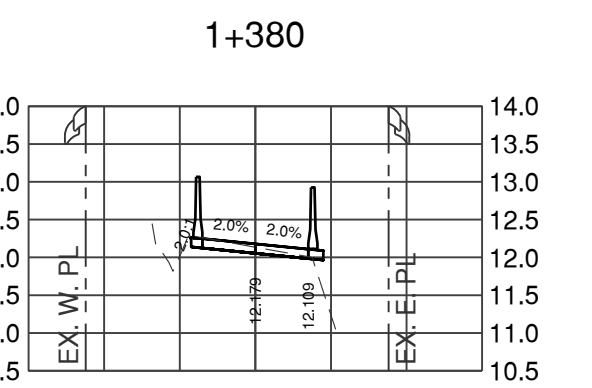
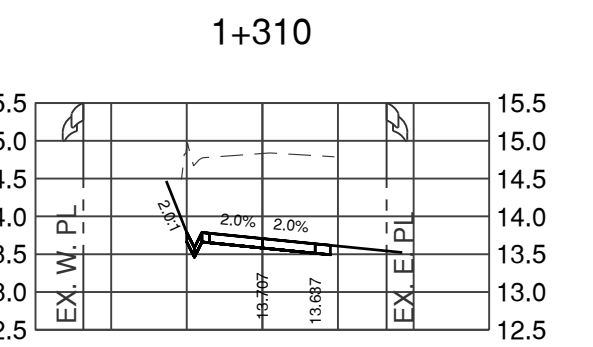
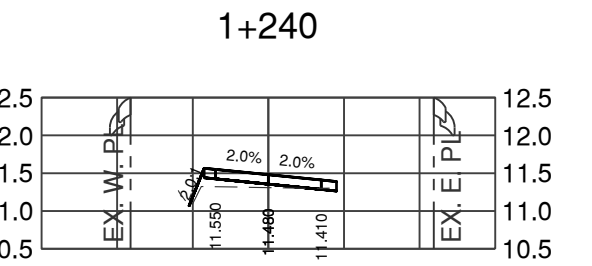
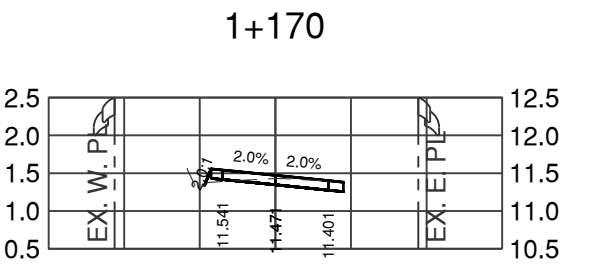
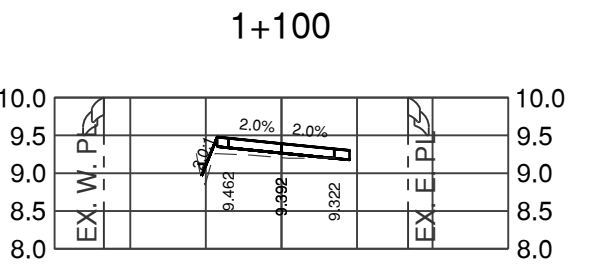
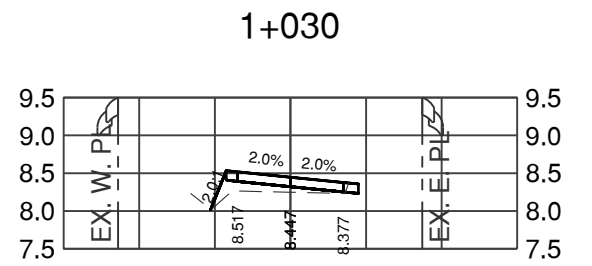
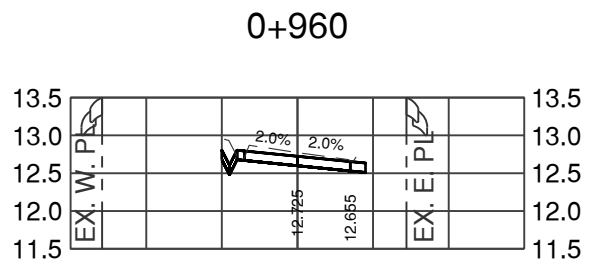
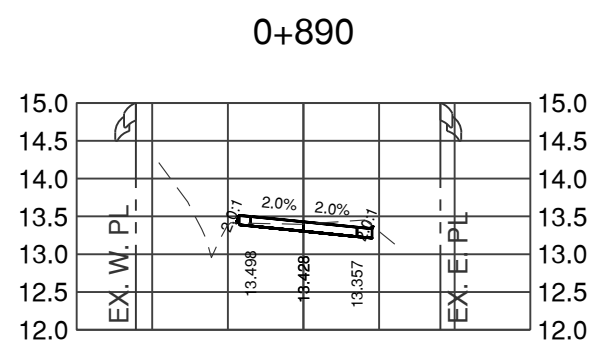
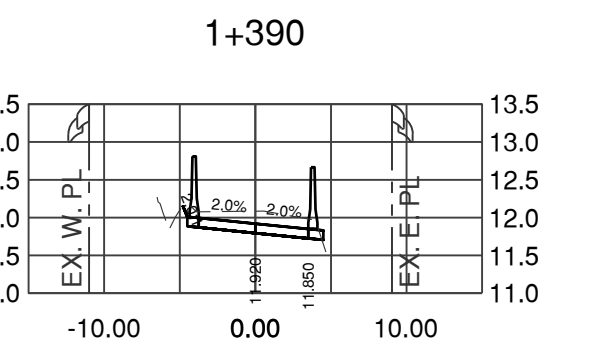
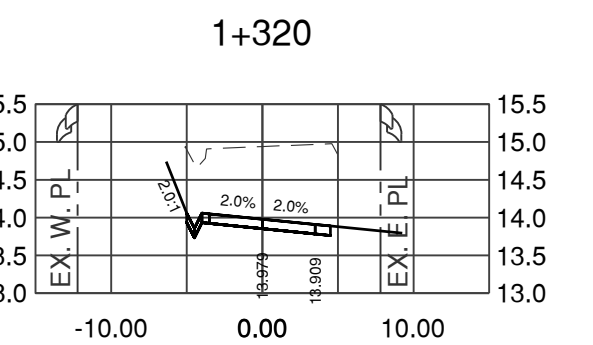
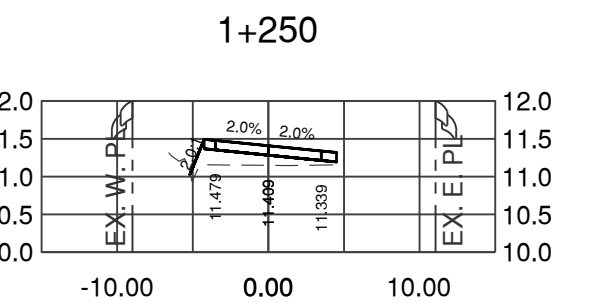
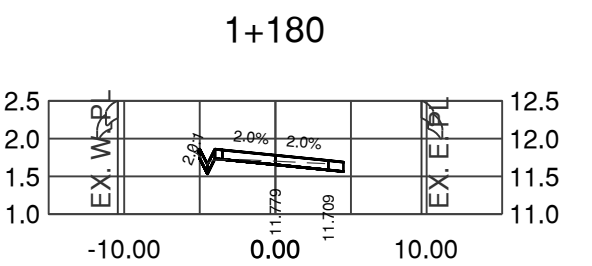
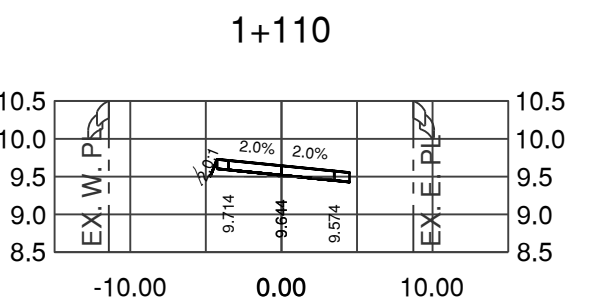
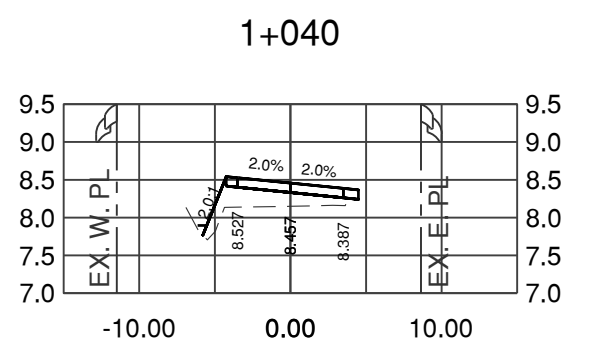
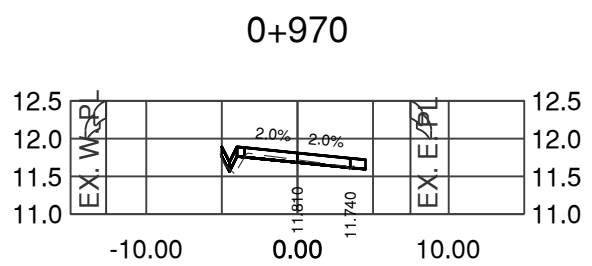
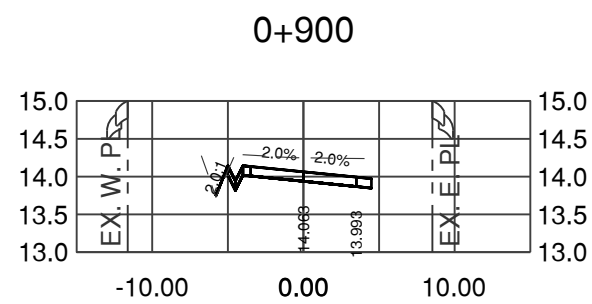
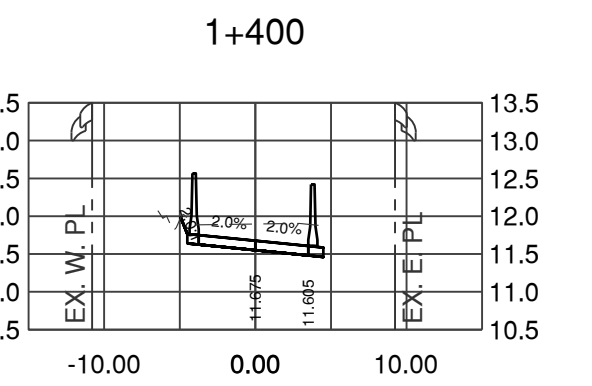
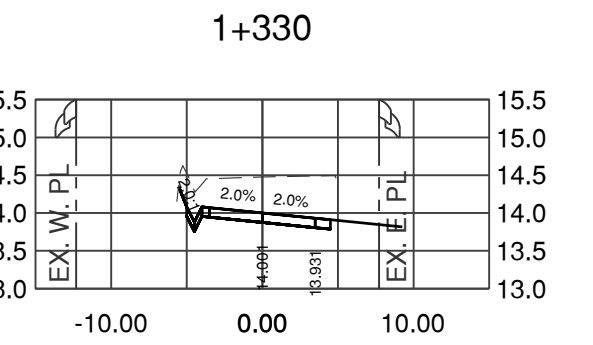
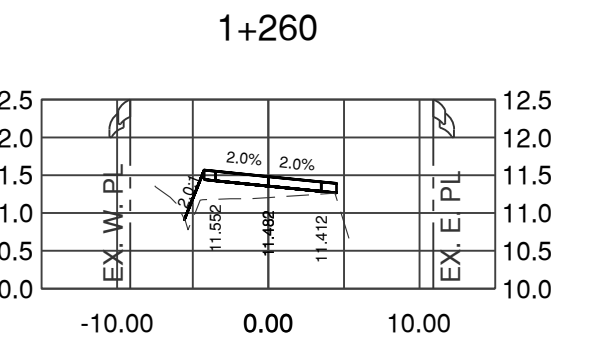
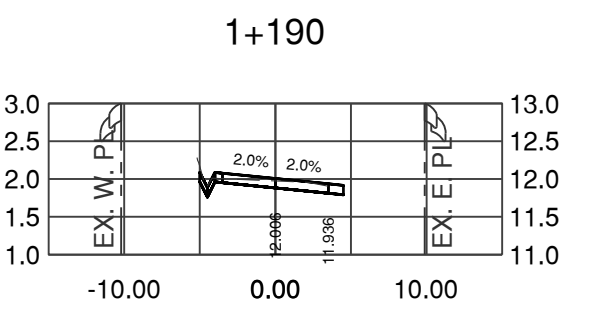
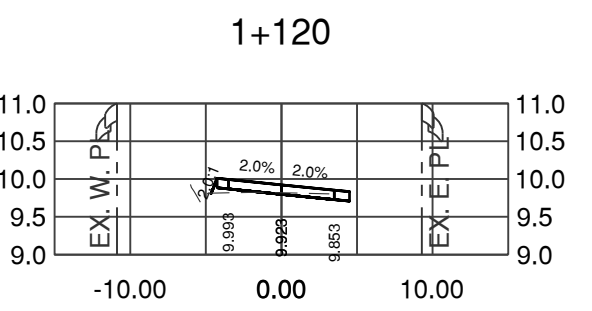
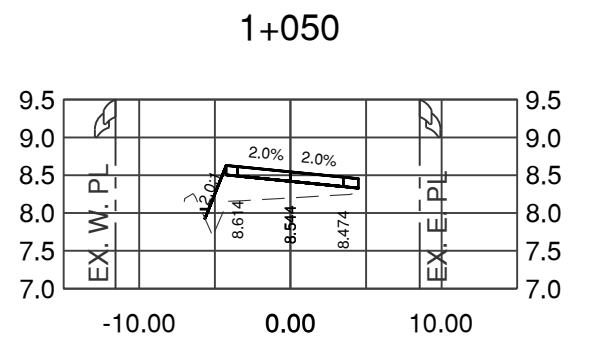
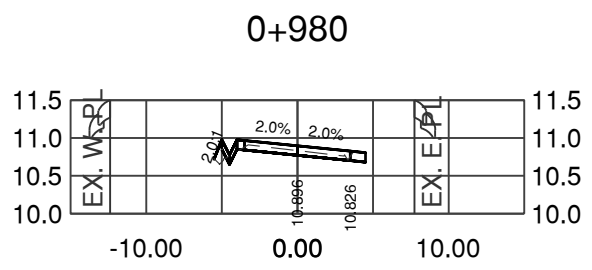
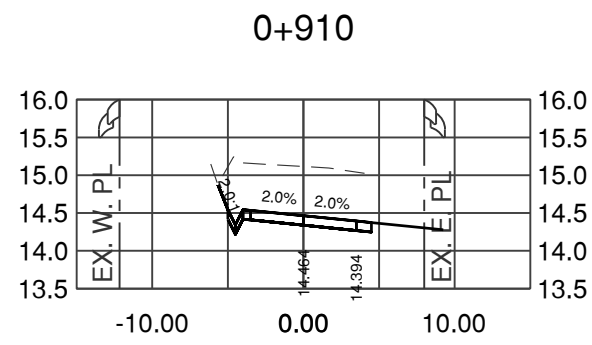
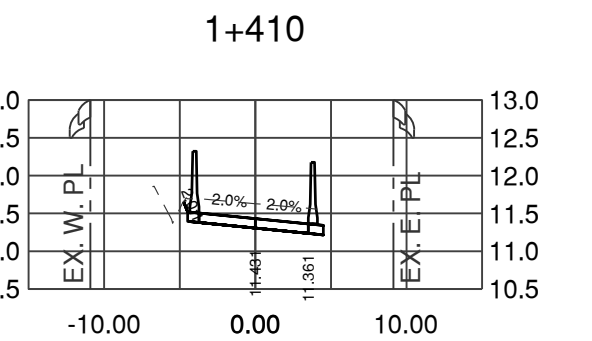
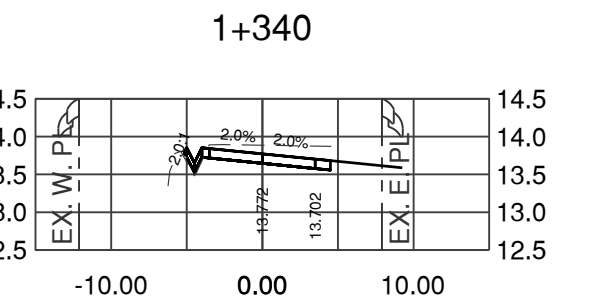
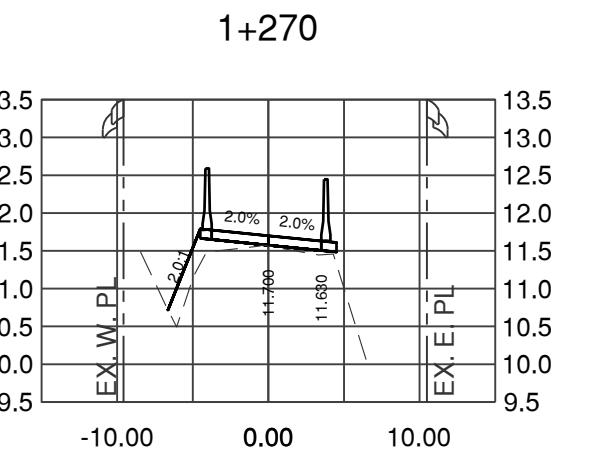
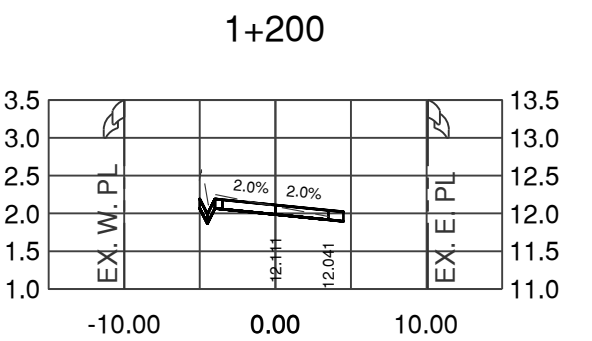
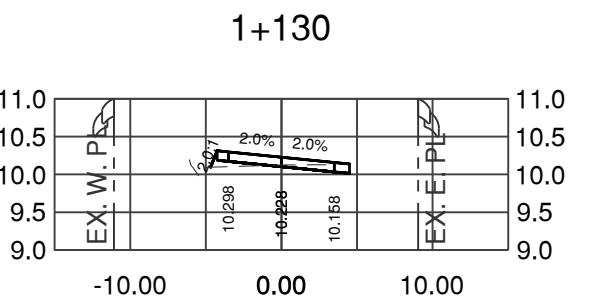
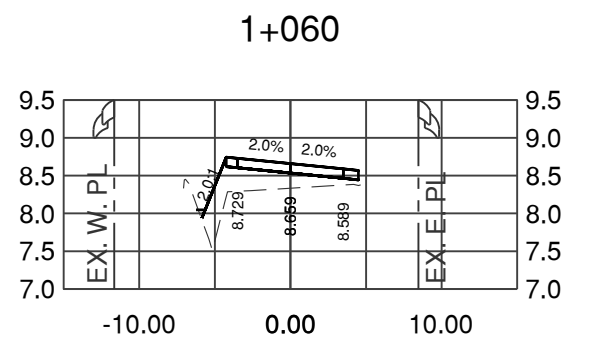
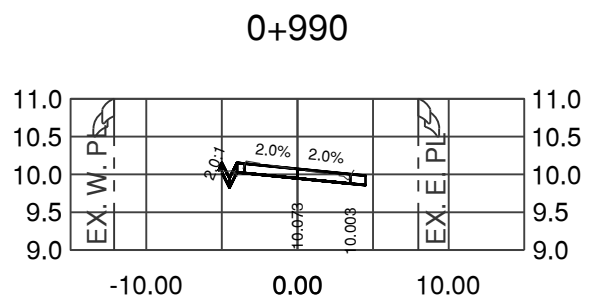
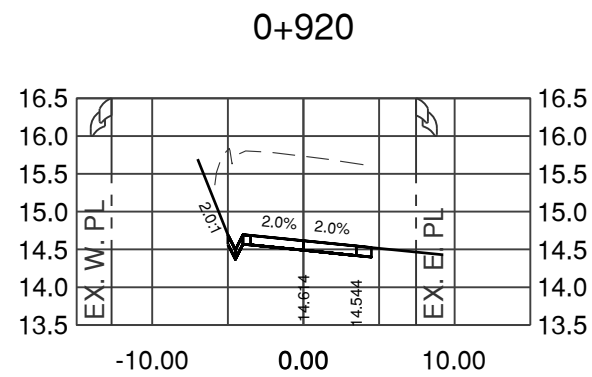
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale 1:500
horiz. 1:500
Sheet 13 of 30
Eng. Project No. 21-0273

Project	QUARRY ROAD UPGRADES CALGARY DR - MACINTYRE CREEK
Description	CROSS SECTIONS
File	21-0273-XS1-1
REV.	A

NOT FOR CONSTRUCTION

BENCHMARK:
MONUMENT 77H4129 LOCATED AT INTERSECTION OF
GILLEY'S TRAIL, QUARRY RD. & VICTORIA DR.,
10.73 M SWLY FROM ERN FENCE, ELEV. 17.527M
SURVEY PROVIDED BY
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0 1:500 20m
0 1:100 4m

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Hydro duct, MH	Catch basin, round	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage service	Junction box	Survey Monument
	Drainage cleanout		

Design by	Date
BB	2026-05-27
Drawn by	Date
BB	2026-05-27
Checked by	Date
RA	2026-05-27
Approved by	Date
CS	2026-05-27
No.	Date
By	Revisions

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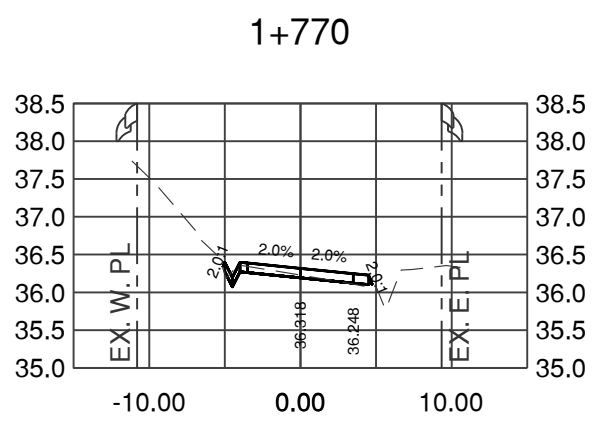
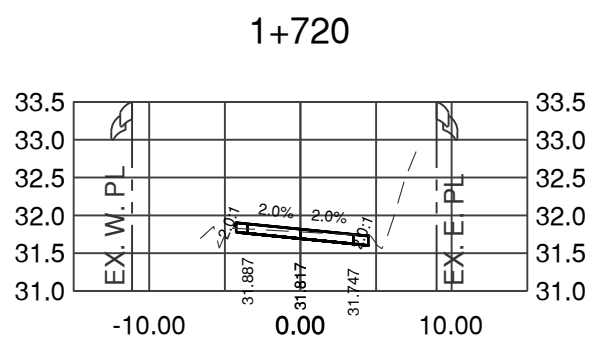
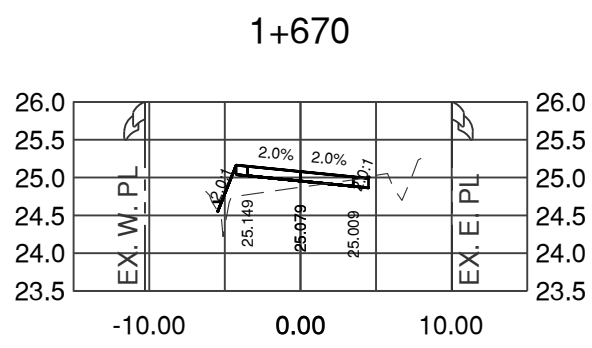
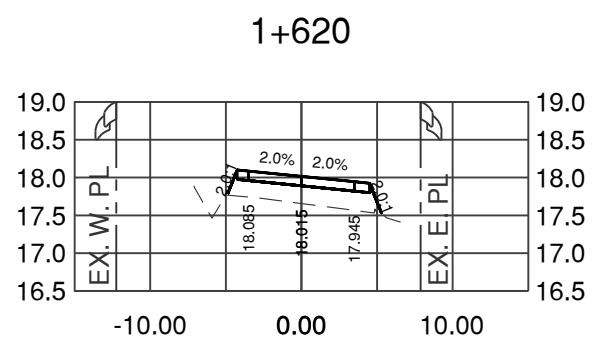
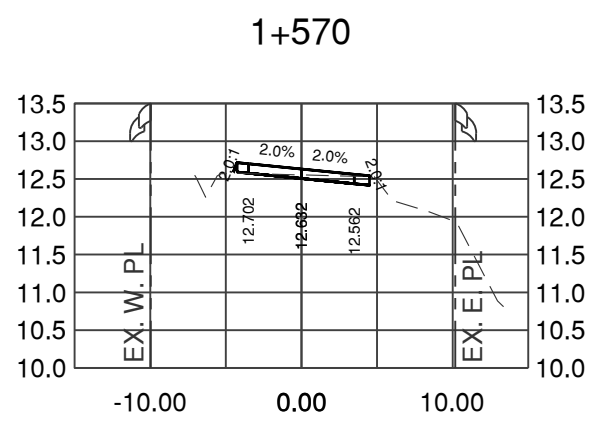
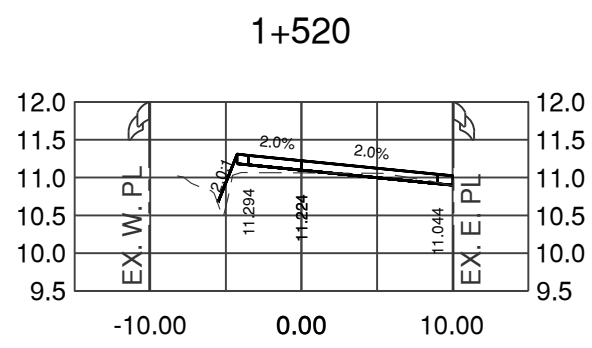
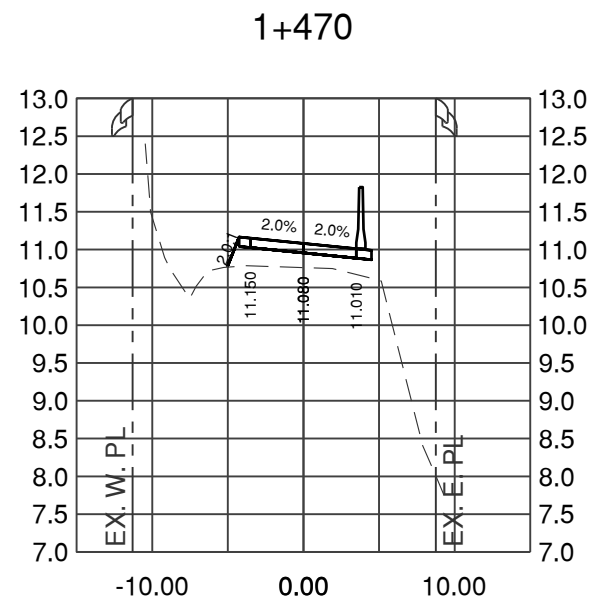
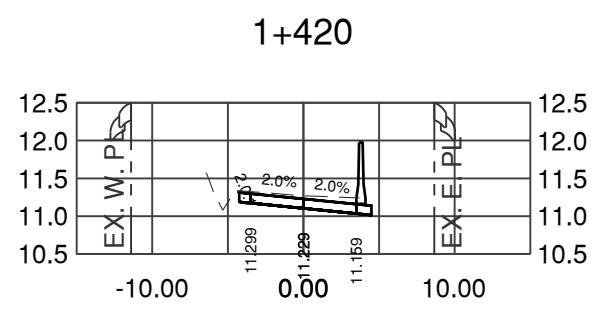
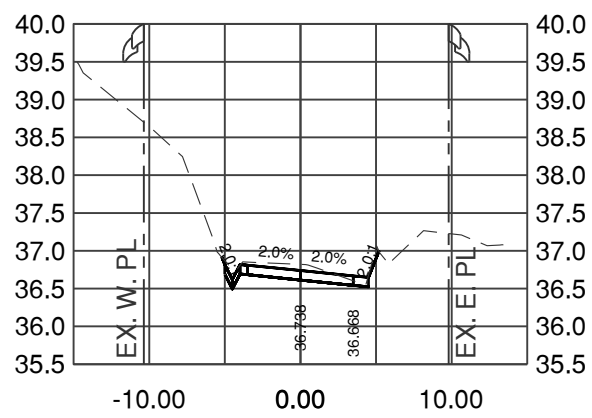
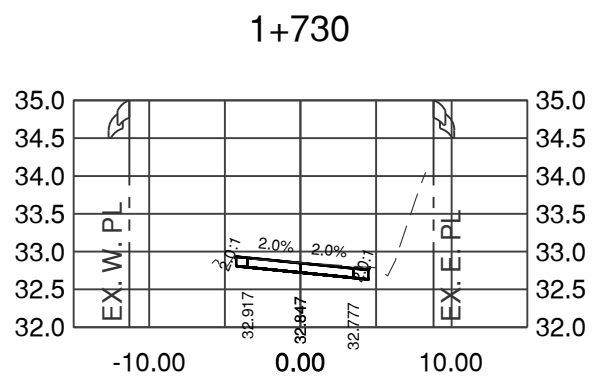
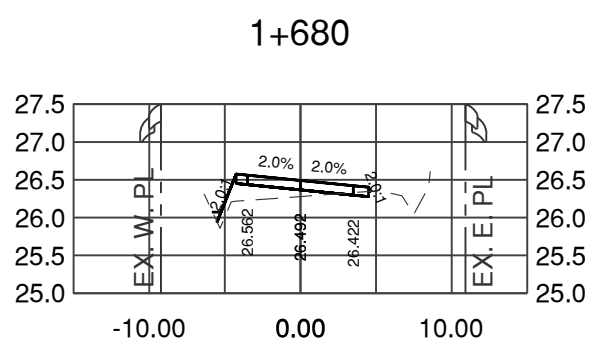
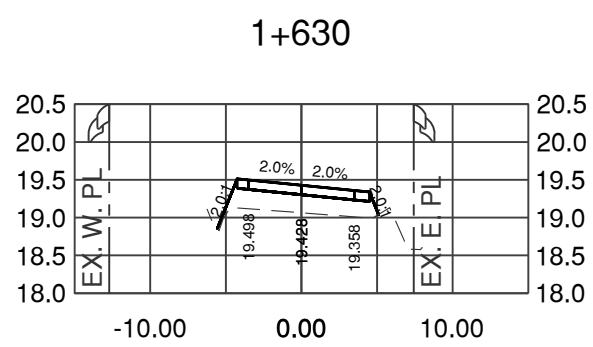
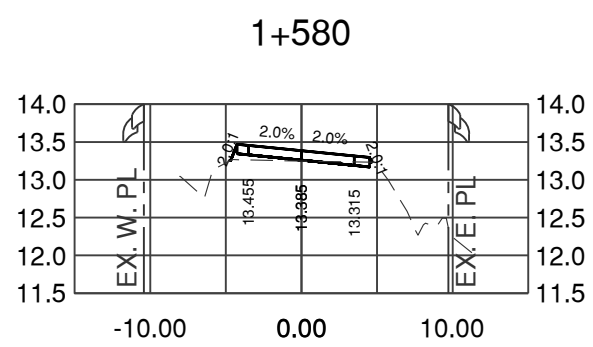
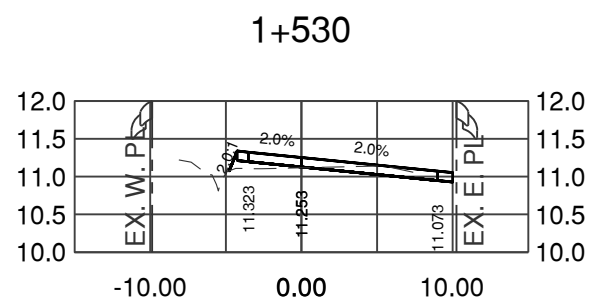
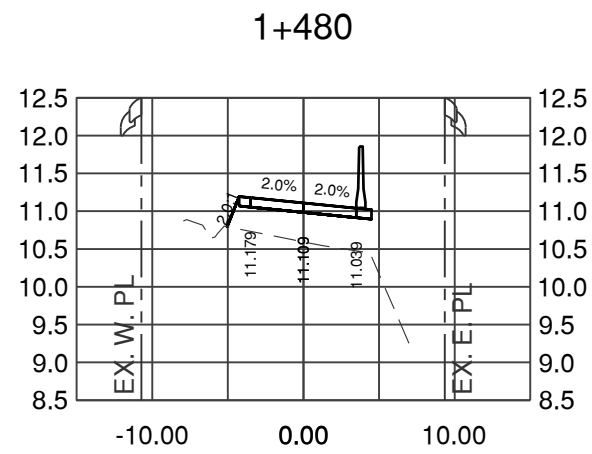
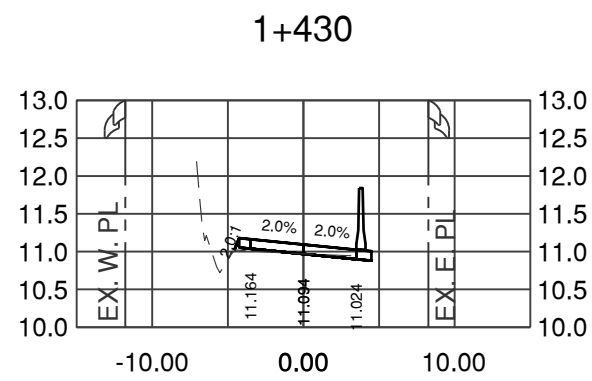
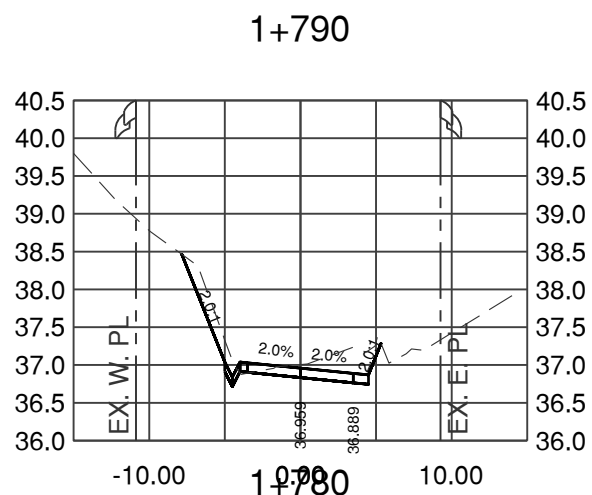
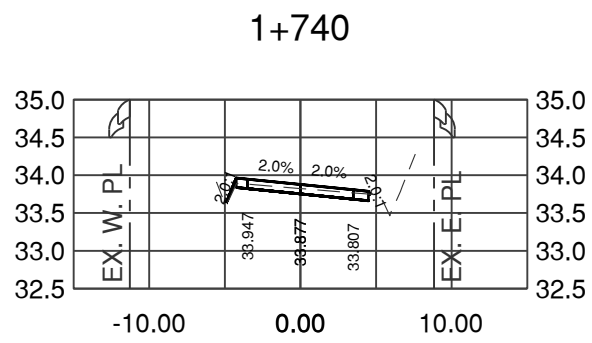
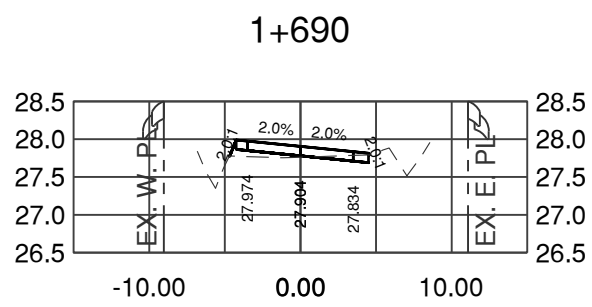
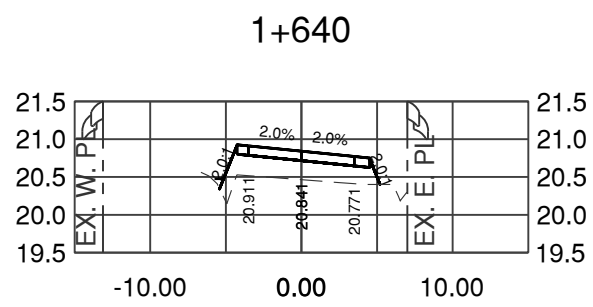
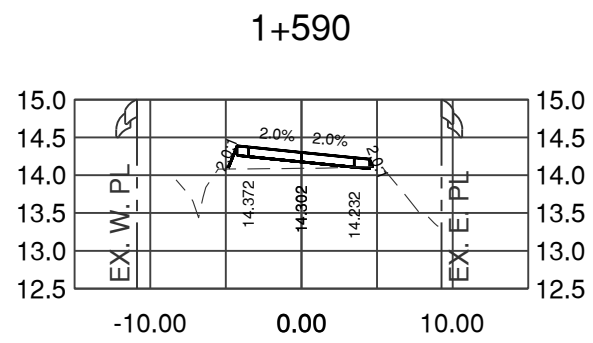
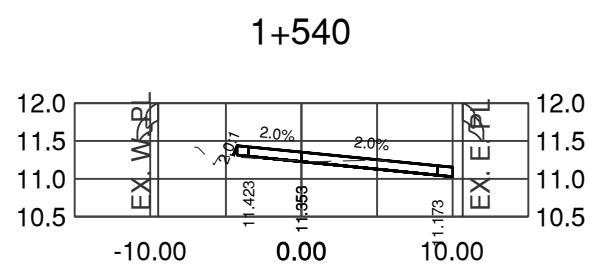
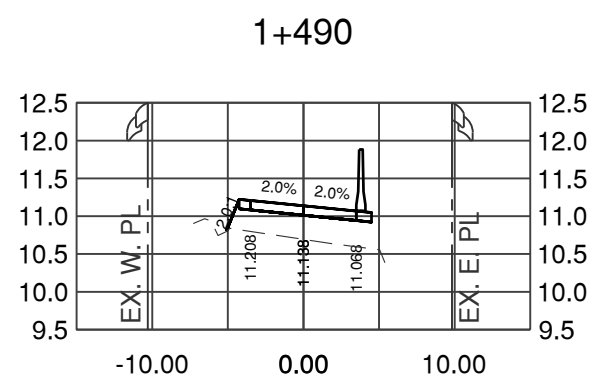
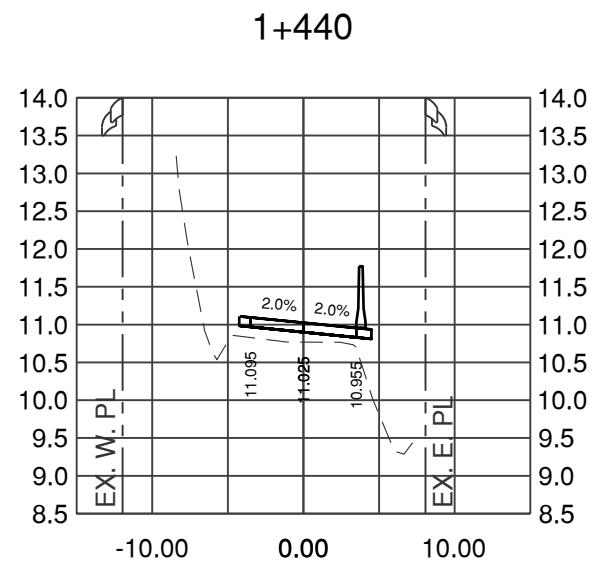
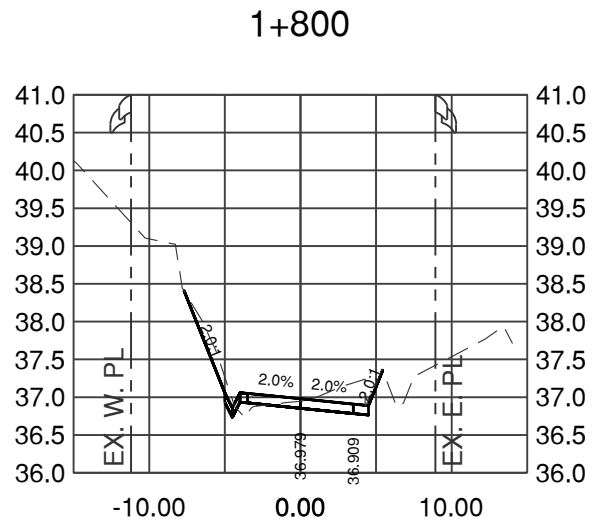
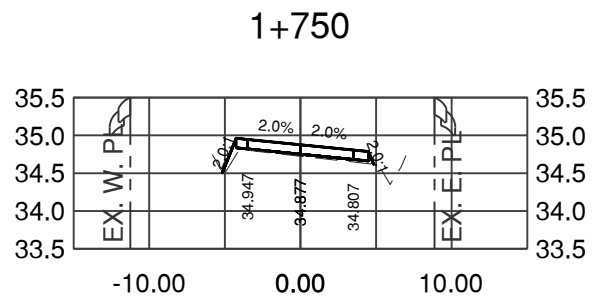
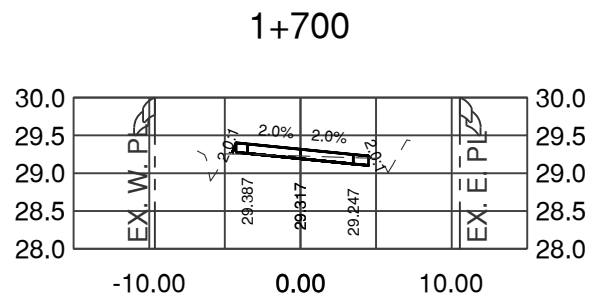
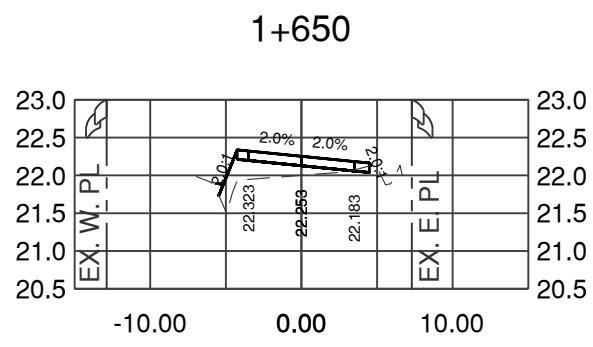
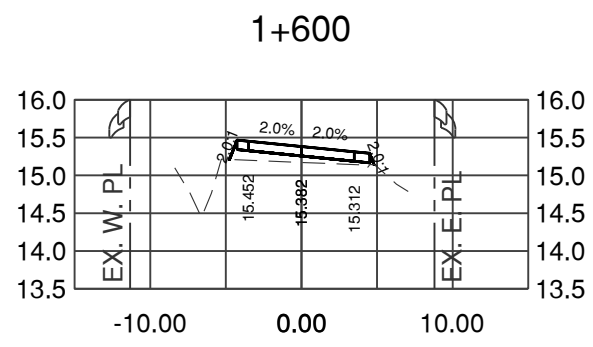
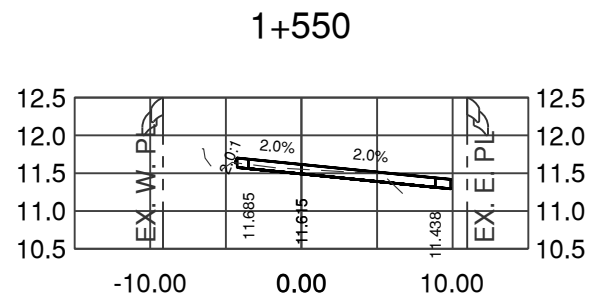
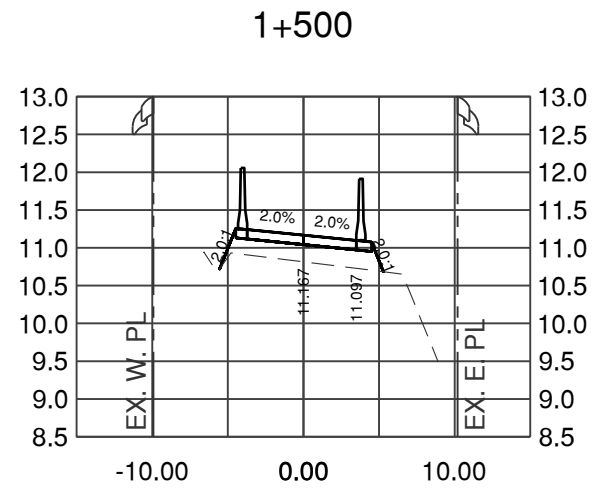
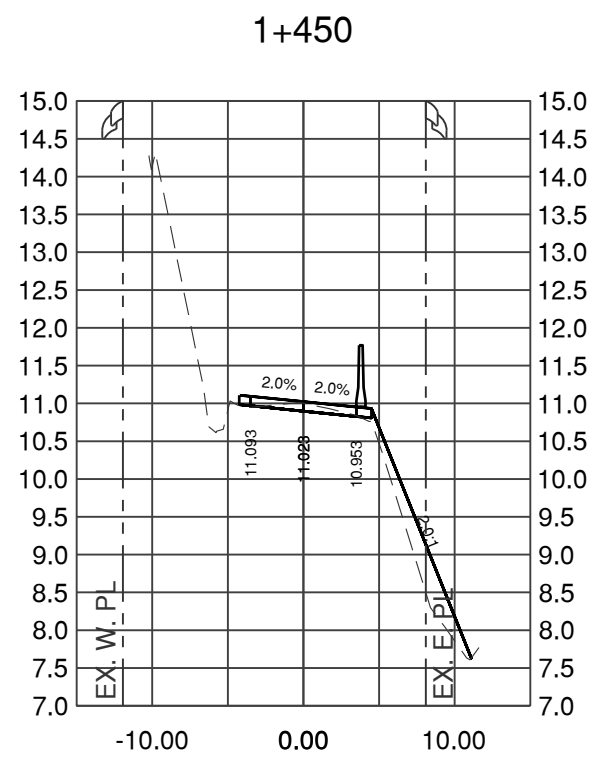
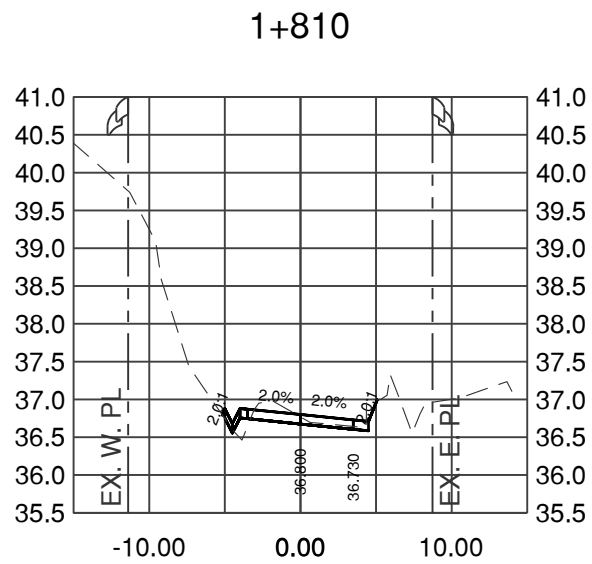
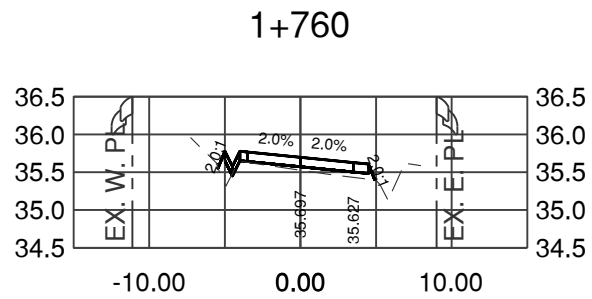
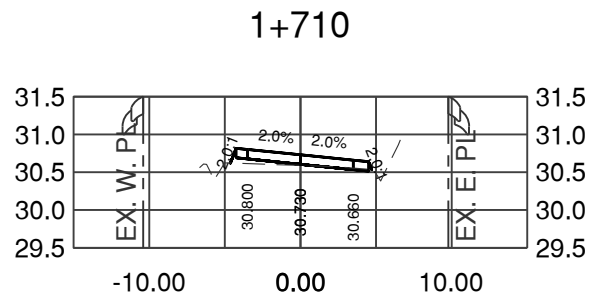
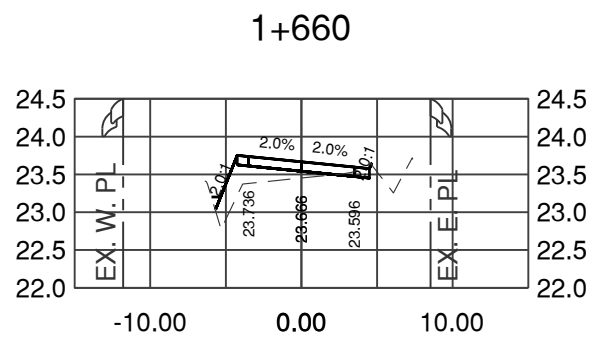
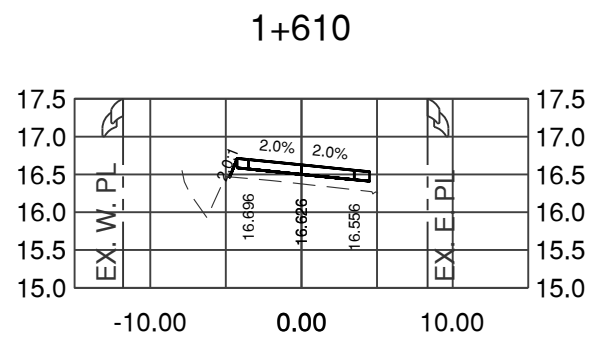
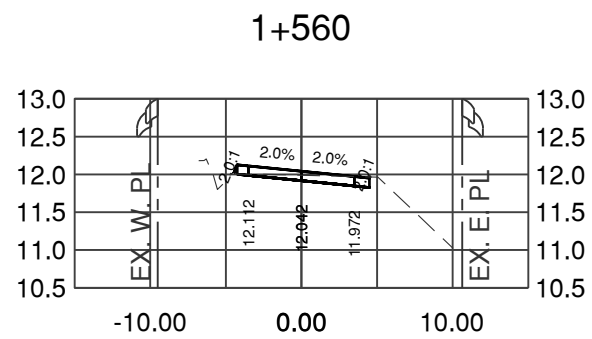
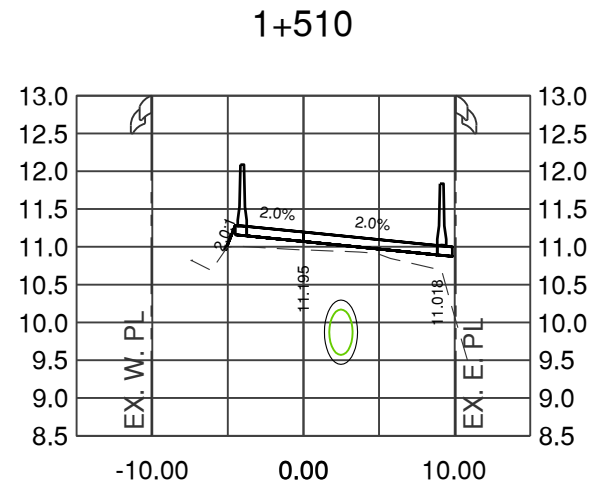
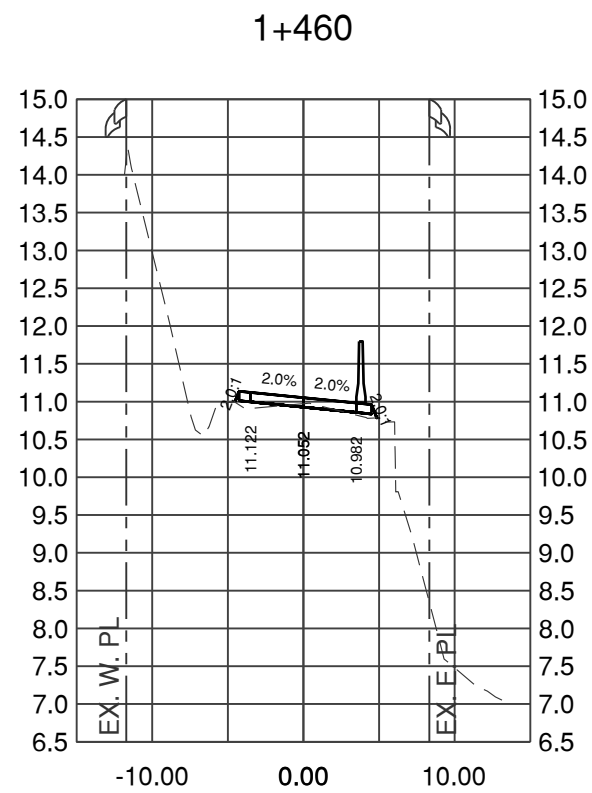
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale
horiz. 1:500
Sheet 14 of 30
Eng. Project No. 21-0273

Project
QUARRY ROAD UPGRADES
CALGARY DR - MACINTYRE CREEK
Description
CROSS SECTIONS
File: 21-0273-XS1-2
REV: A

NOT FOR CONSTRUCTION

BENCHMARK:
MONUMENT 77H4129 LOCATED AT INTERSECTION OF
GILLEY'S TRAIL, QUARRY RD. & VICTORIA DR.,
10.73 M SWLY FROM ERN FENCE, ELEV. 17.527M
SURVEY PROVIDED BY
COASTLINE LAND SURVEYING LTD.
& RF BINNIE & ASSOCIATES LTD.



0 1:500 20m
0 1:100 4m

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- | | | | |
|--------------------|---------------------|---------------------------|----------------------|
| Edge of pavement | Watermain and valve | Sanitary service | Hydro Guy Wire |
| Drainage ditch | Sanitary sewer, MH | Sanitary cleanout | Hydro Kiosk |
| Sanitary sewer, MH | Sanitary sewer, MH | Utility pole (joint pole) | Vegetation Canister |
| Sanitary forcemain | Sanitary sewer, MH | Utility pole with light | Vegetation Deciduous |
| Gasmain and valve | Sanitary sewer, MH | Streetlight, down | Vegetation Shrub |
| Hydro duct, MH | Sanitary sewer, MH | Streetlight, post top | Survey Traverse Hub |
| Telephone duct, MH | Sanitary sewer, MH | Comb signal pole | Survey Iron Pin |
| | Sanitary sewer, MH | Traffic signal pole | Survey Lead Plug |
| | Sanitary sewer, MH | Junction box | Survey Monument |

No.	Date	By	Revisions
A	2026-05-27	BB	ISSUED FOR TENDER

Design by	Date
BB	2026-05-27
Drawn by	Date
BB	2026-05-27
Checked by	Date
RA	2026-05-27
Approved by	Date
CS	2026-05-27

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Scale
horiz. 1:500
Sheet 15
Eng. Project No. 21-0273

Scale
vert. 1:100
of 30

Project
QUARRY ROAD UPGRADES
CALGARY DR - MACINTYRE CREEK

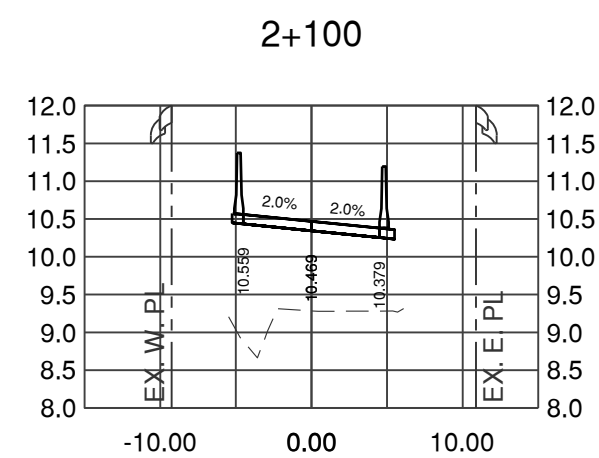
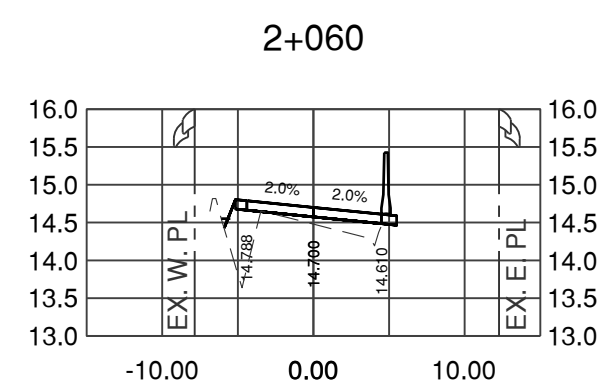
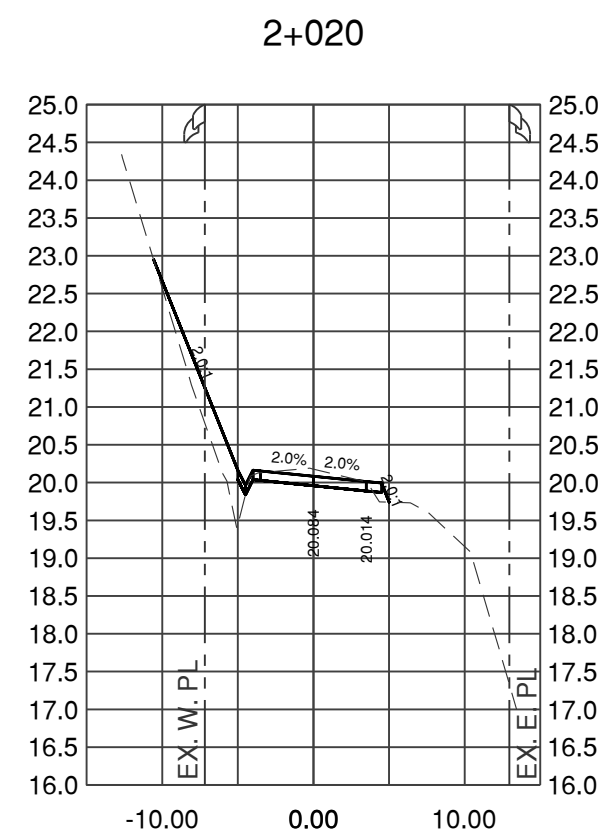
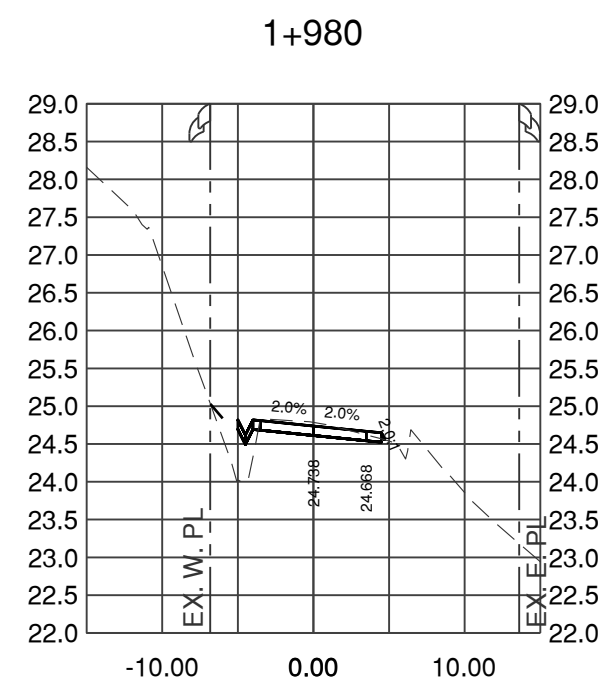
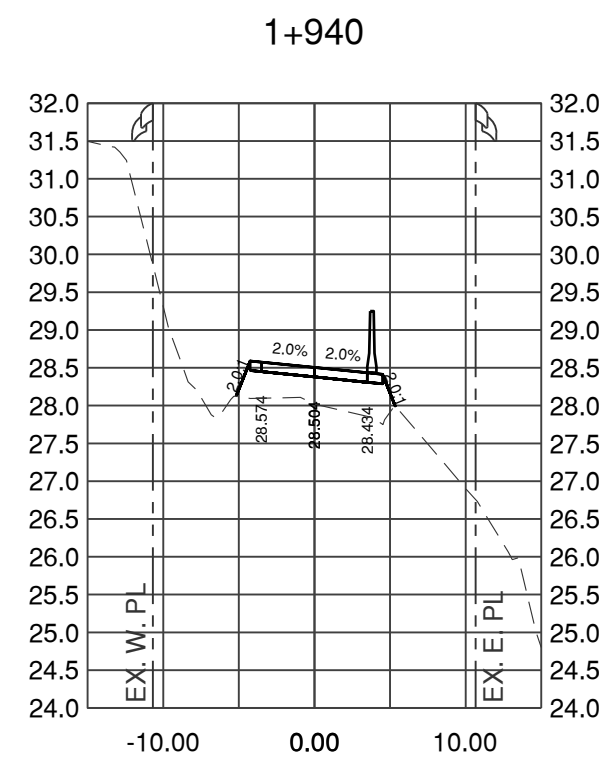
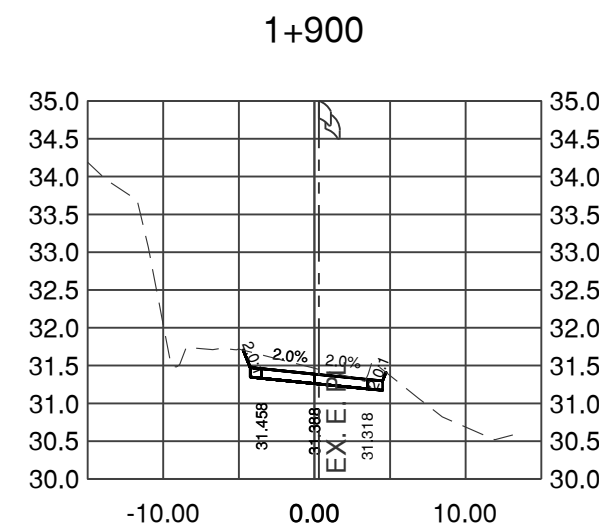
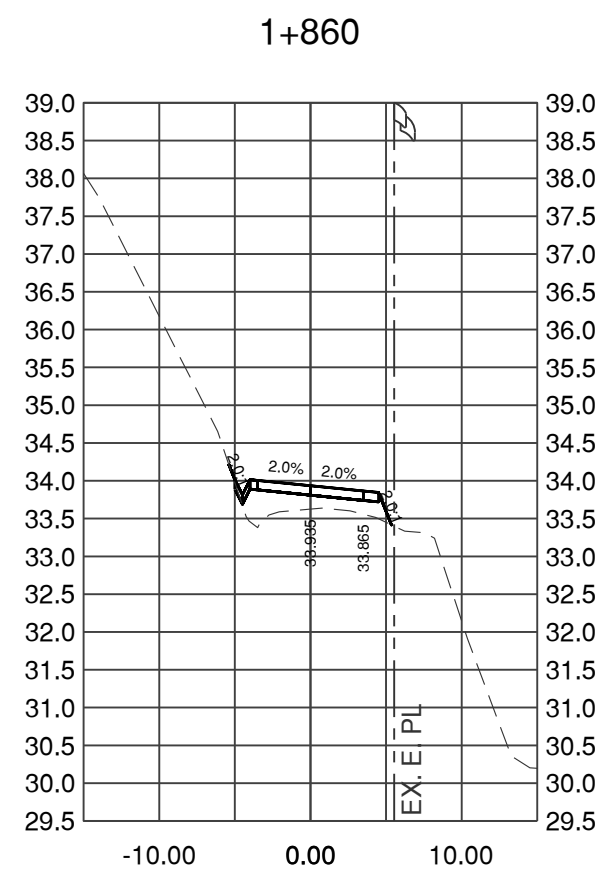
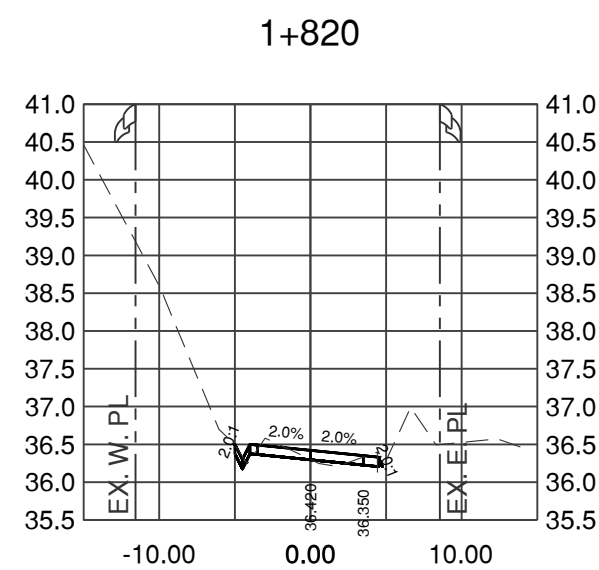
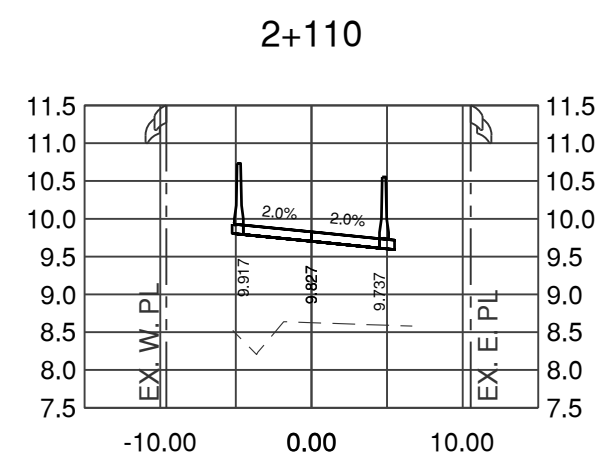
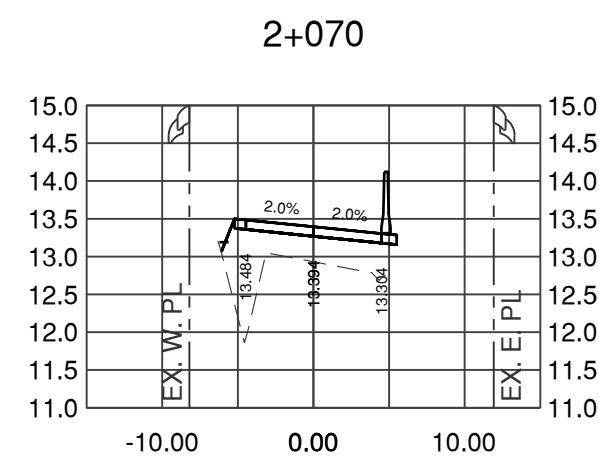
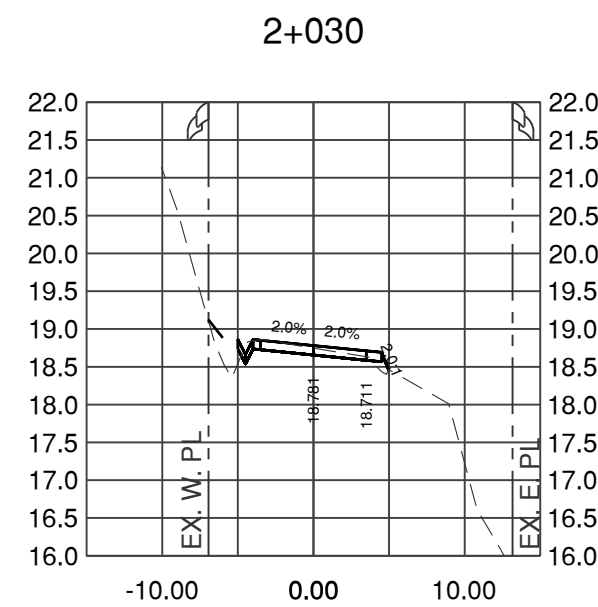
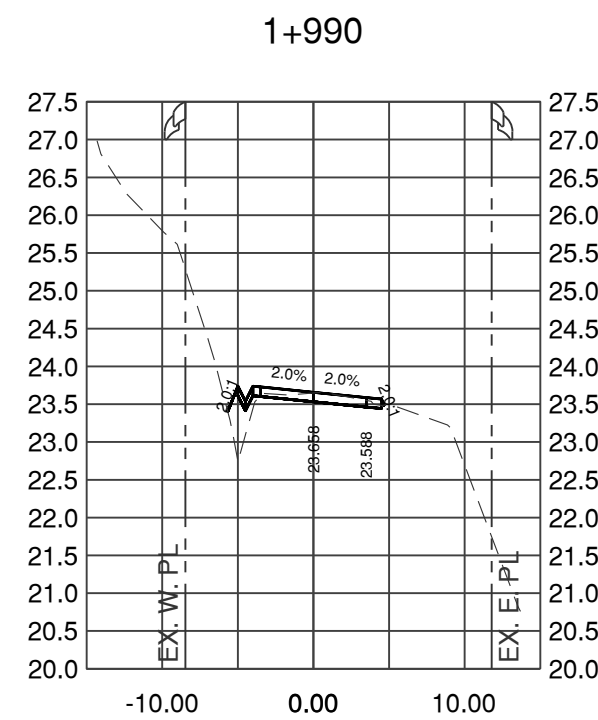
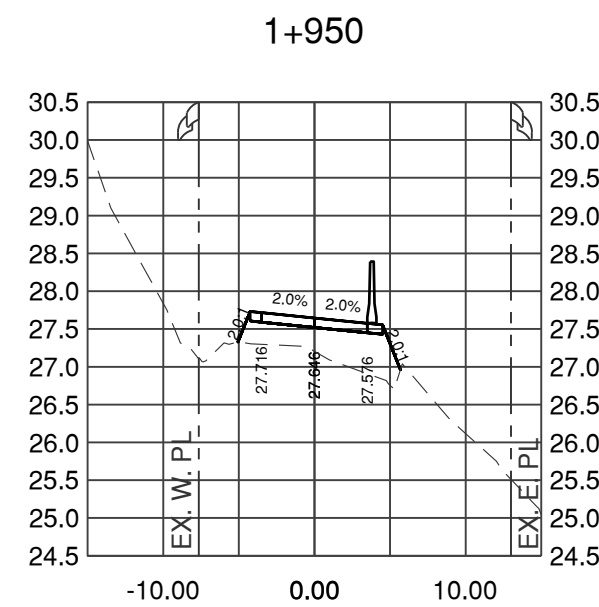
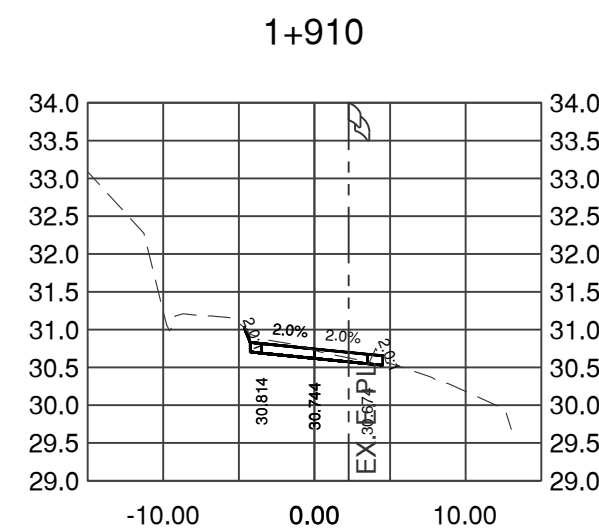
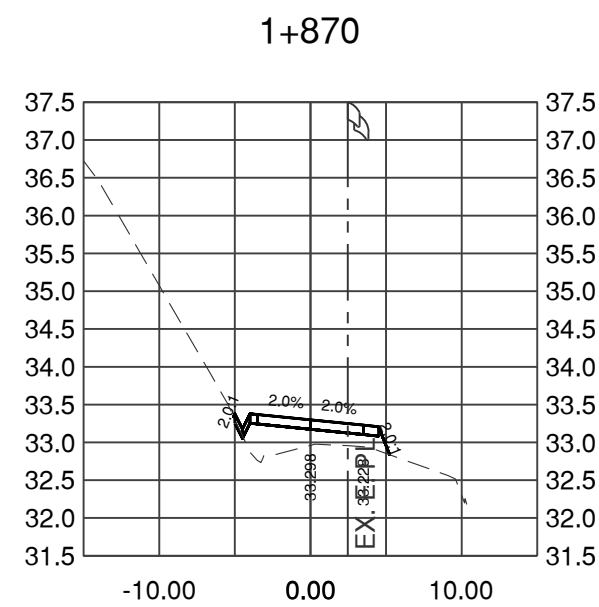
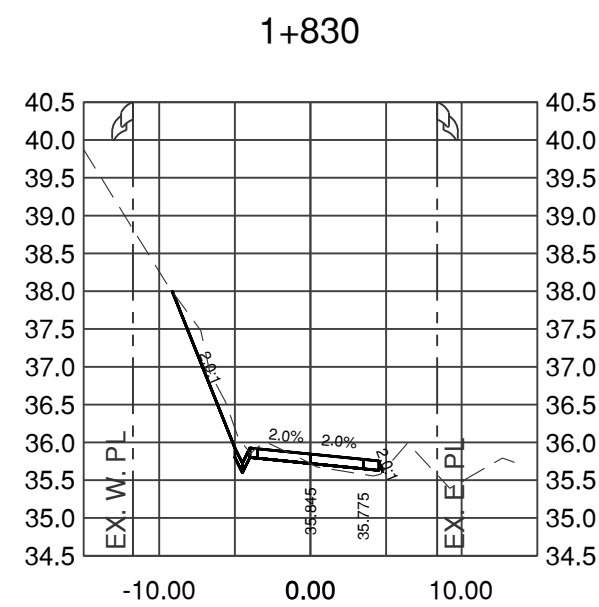
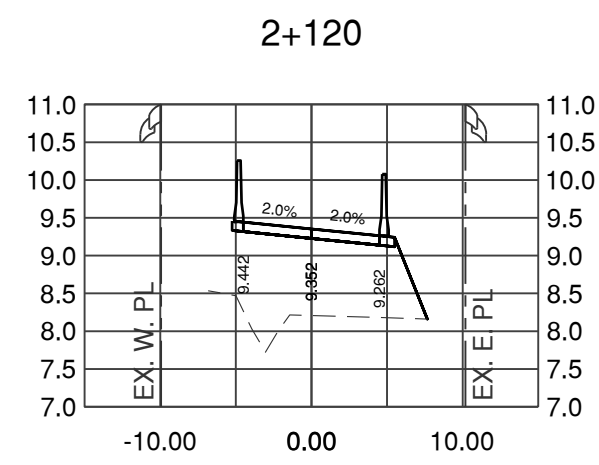
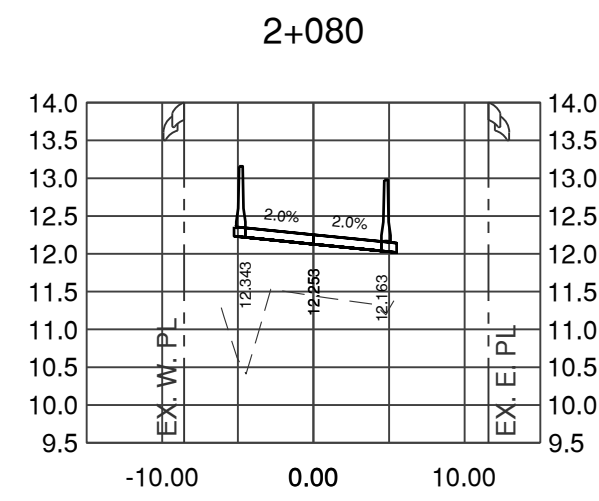
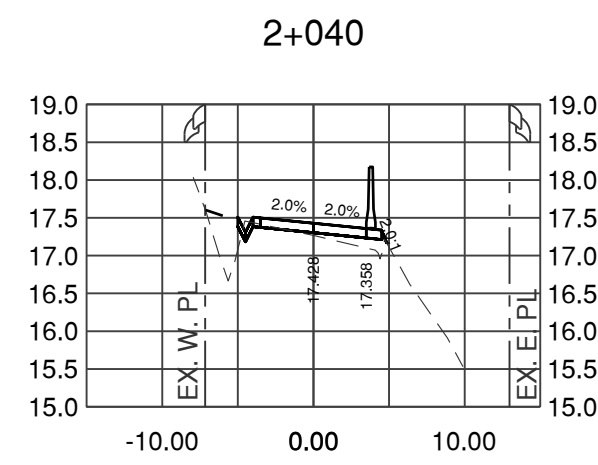
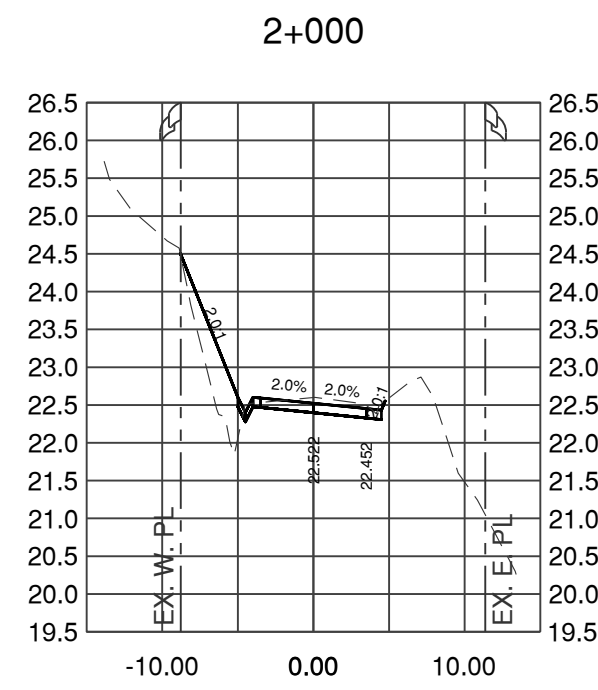
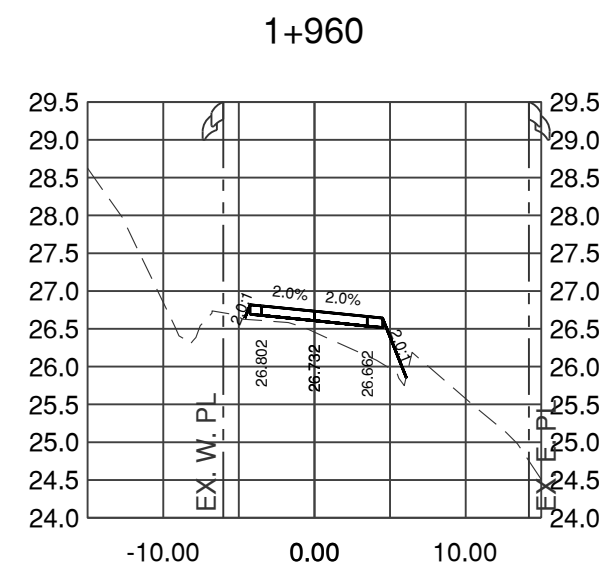
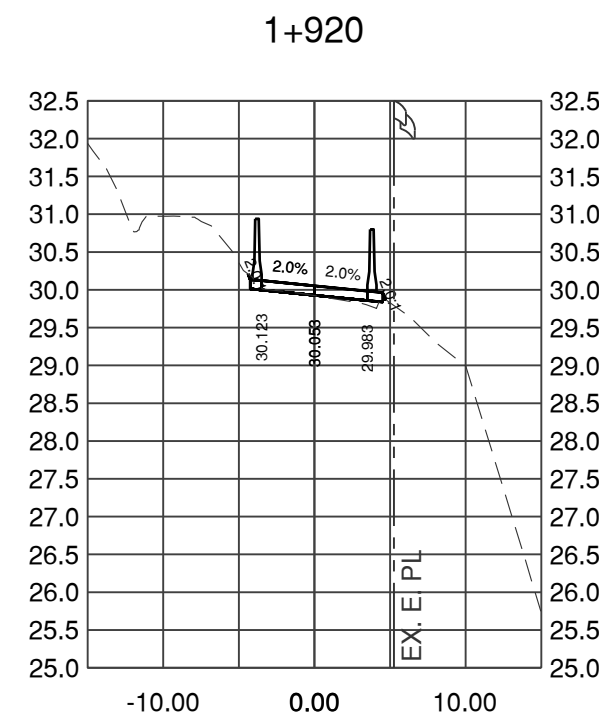
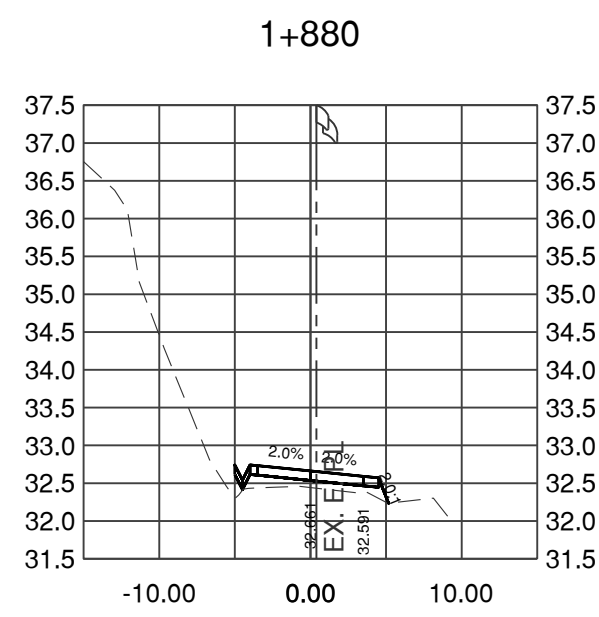
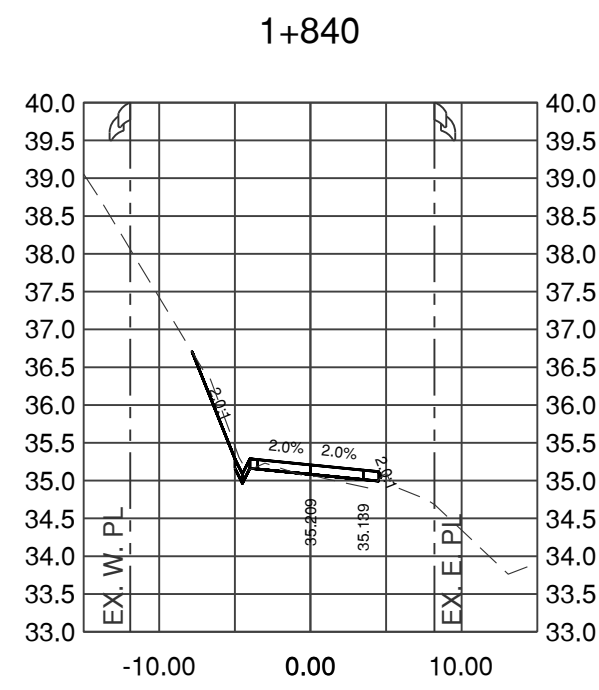
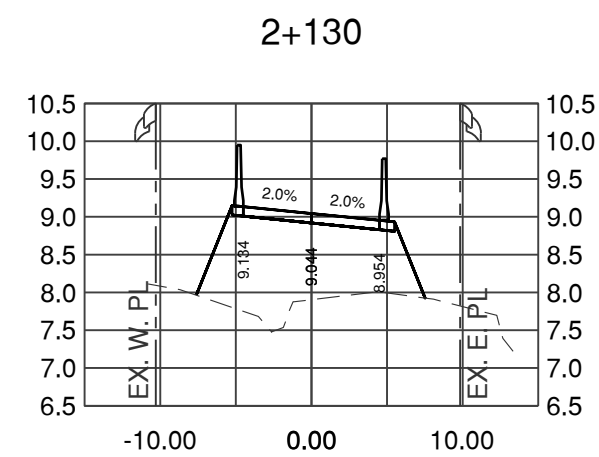
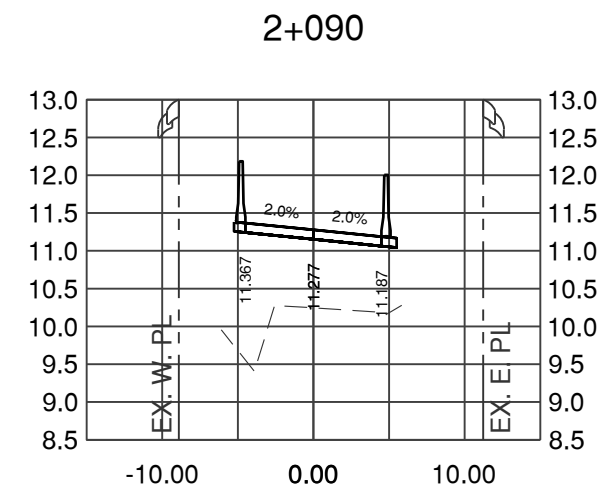
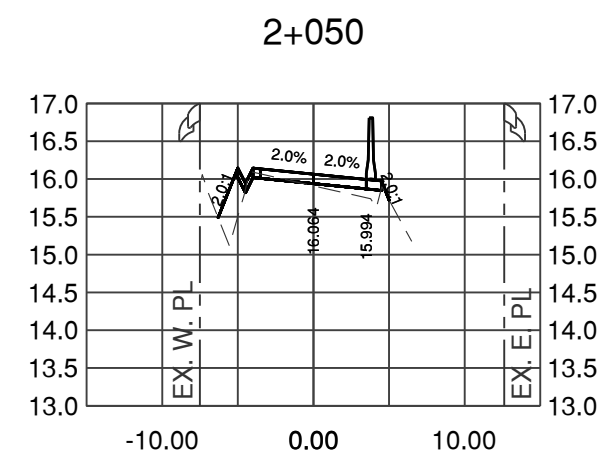
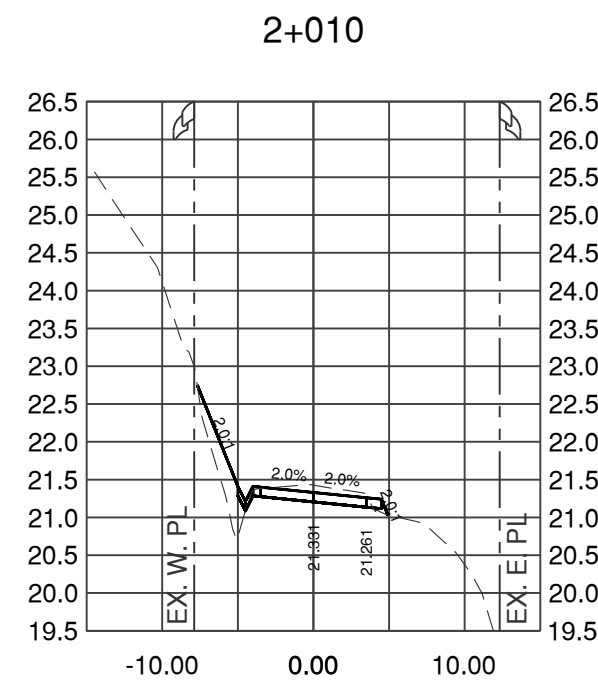
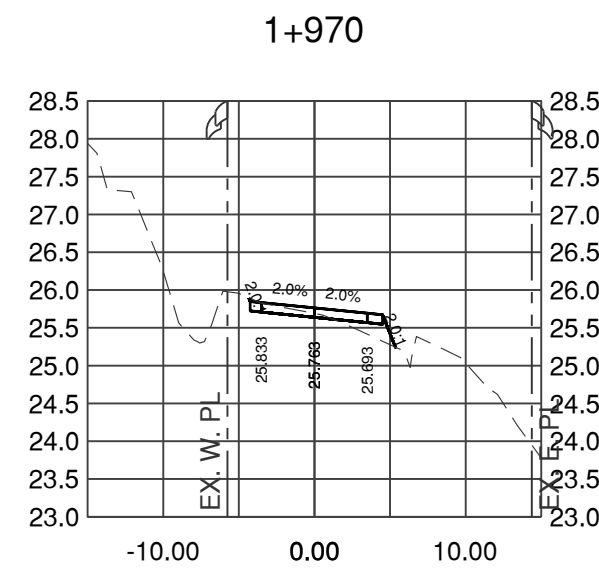
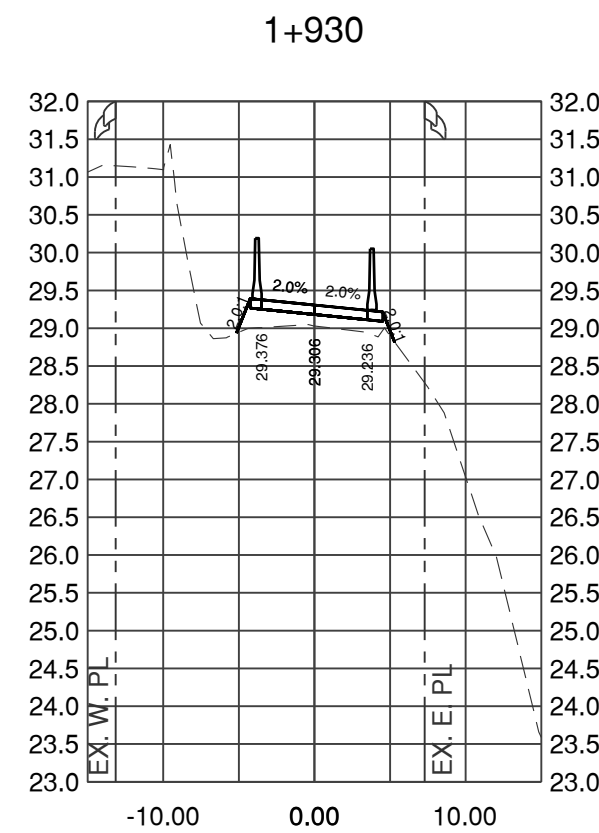
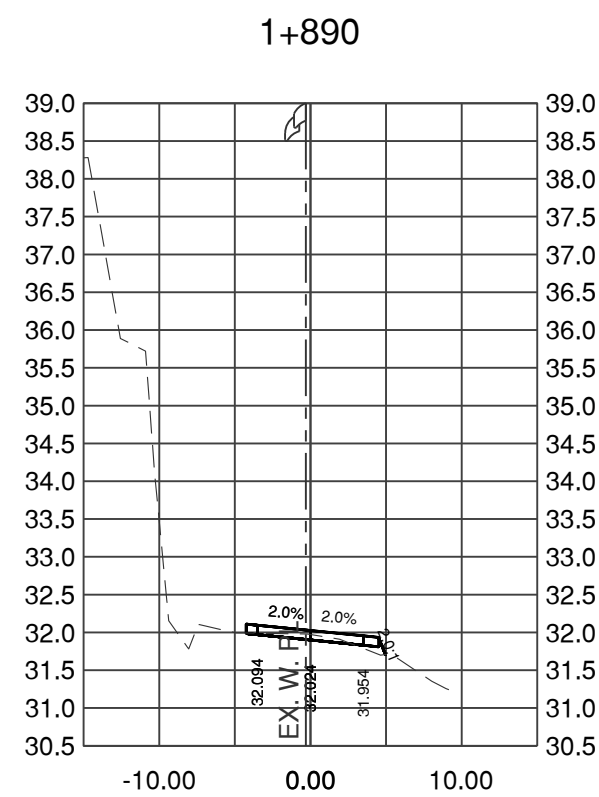
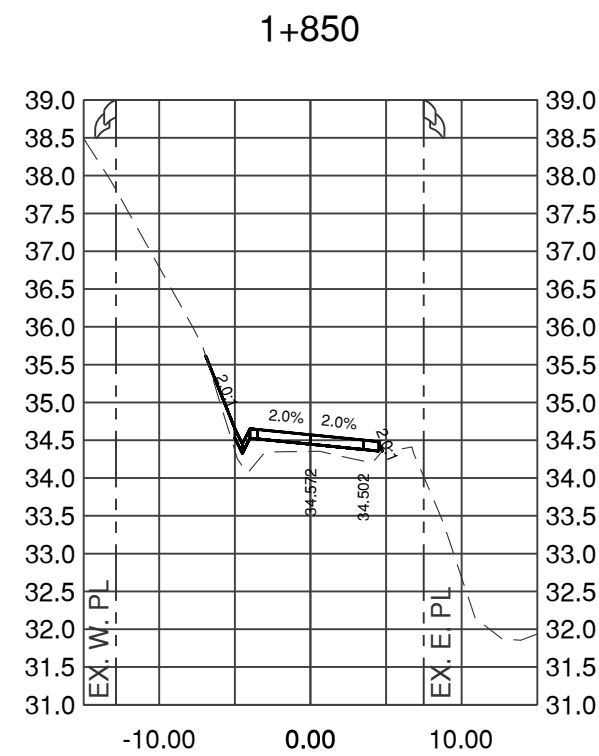
Description
CROSS SECTIONS

File: 21-0273-XS1-3

REV: A

NOT FOR CONSTRUCTION

BENCHMARK:
MONUMENT 77H4129 LOCATED AT INTERSECTION OF
GILLEY'S TRAIL, QUARRY RD. & VICTORIA DR.,
10.73 M SWLY FROM ERN FENCE, ELEV. 17.527M
SURVEY PROVIDED BY
COASTLINE LAND SURVEYING LTD.
& RF BINNIE & ASSOCIATES LTD.



0 1:500 20m
0 1:100 4m

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Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole(joint pole)	Vegetation Canifer
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
A	2026-05-27	BB	ISSUED FOR TENDER

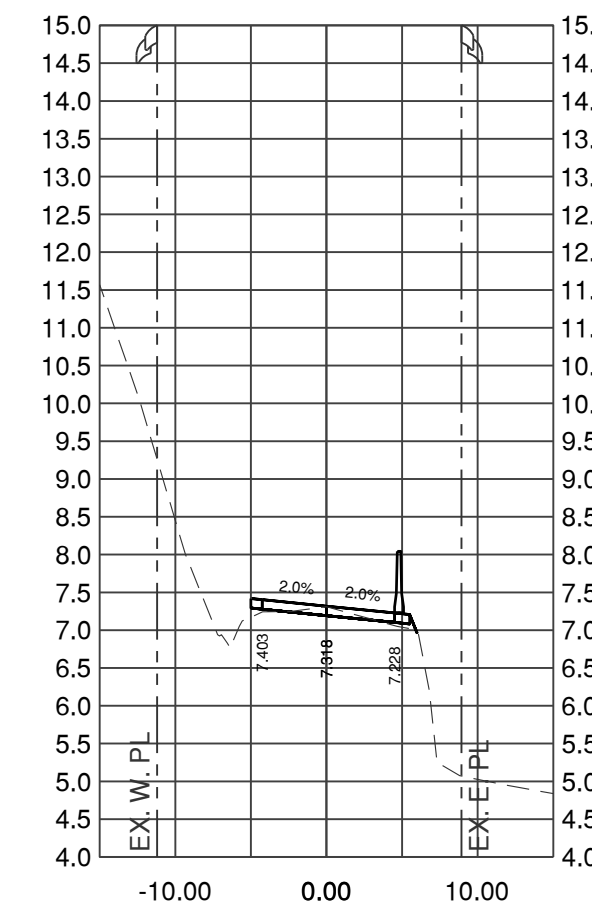
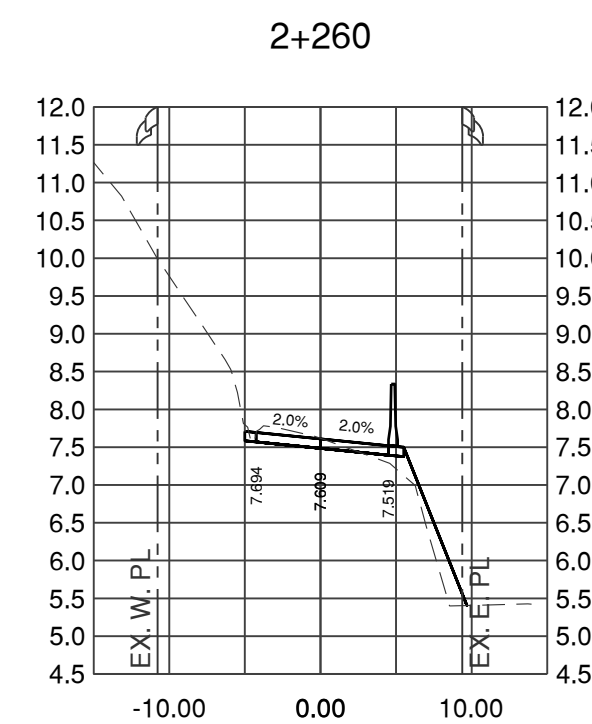
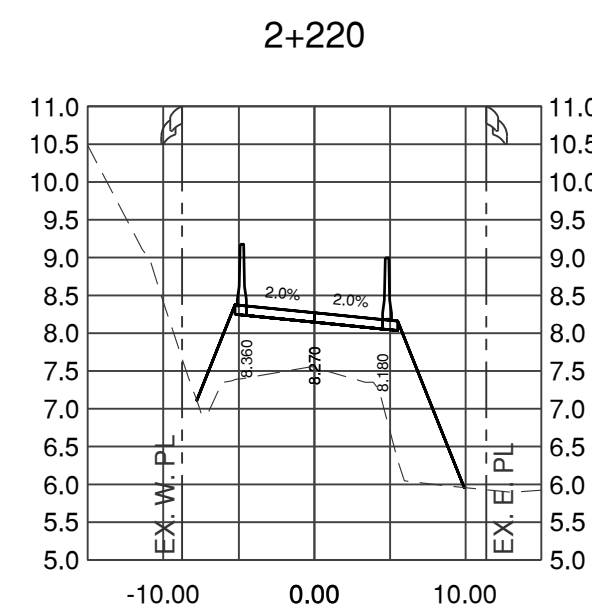
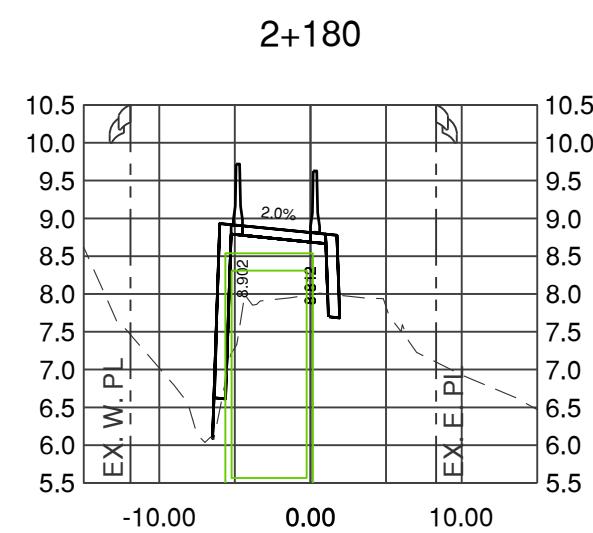
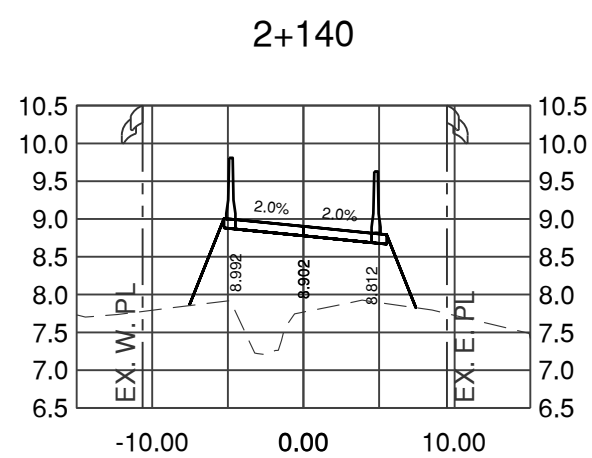
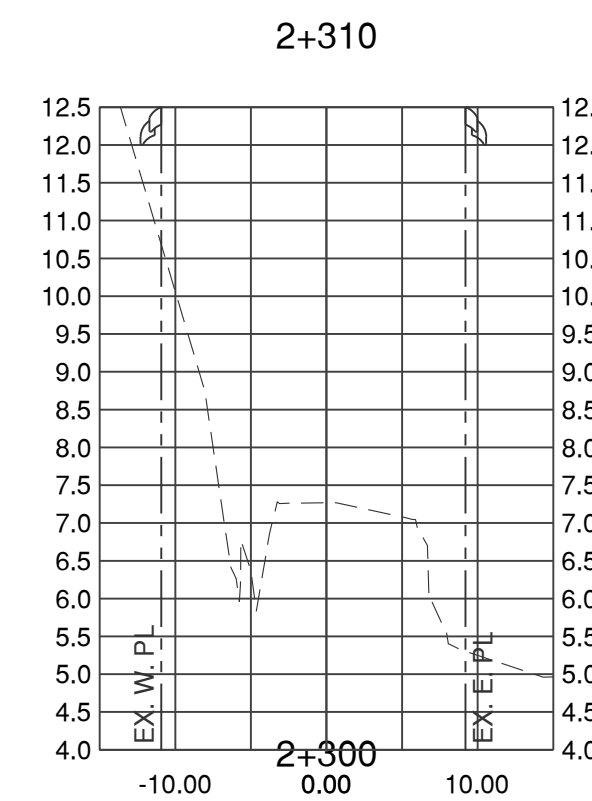
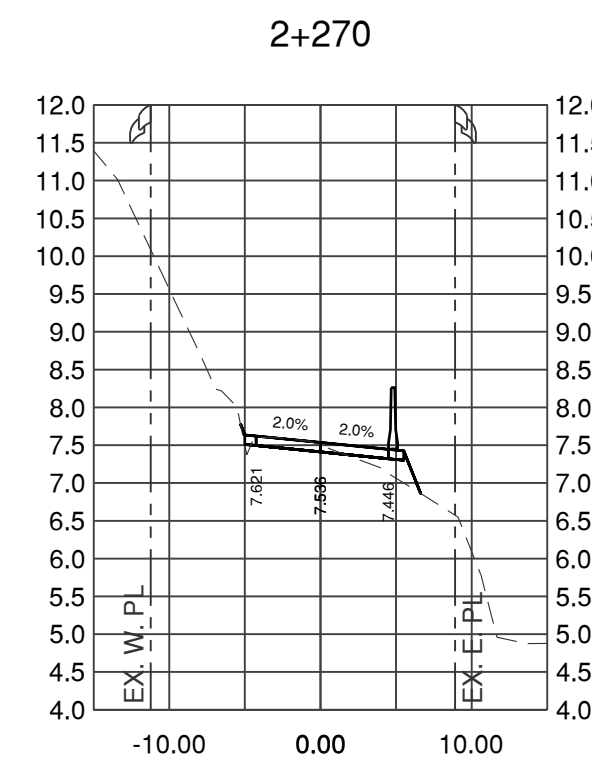
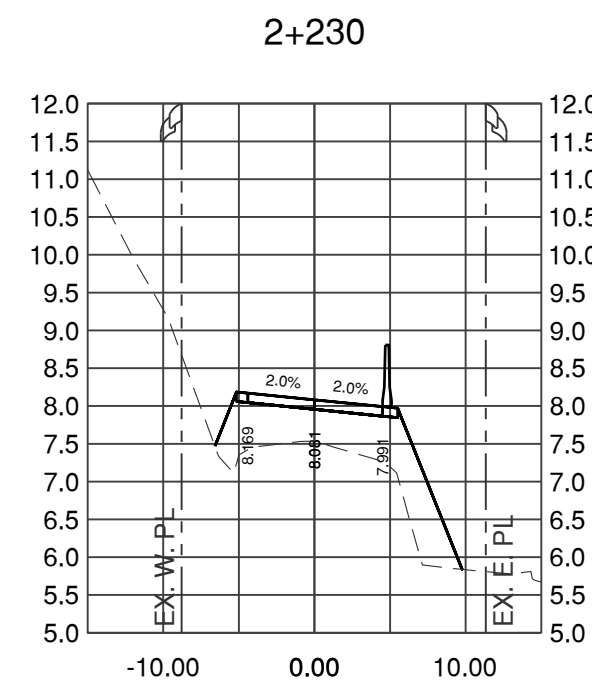
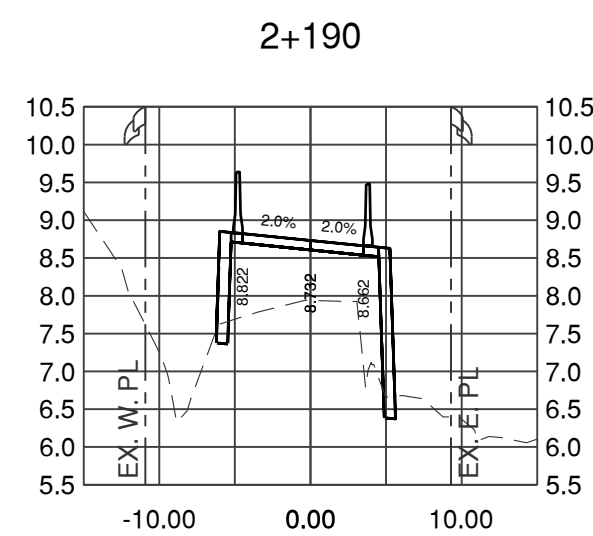
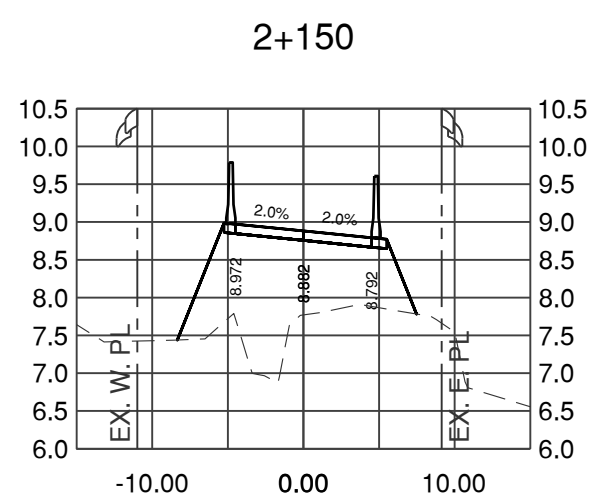
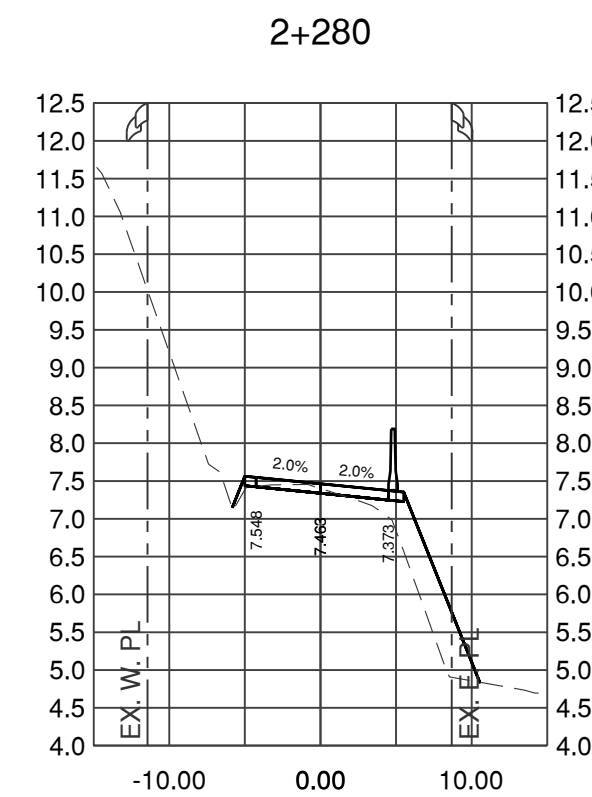
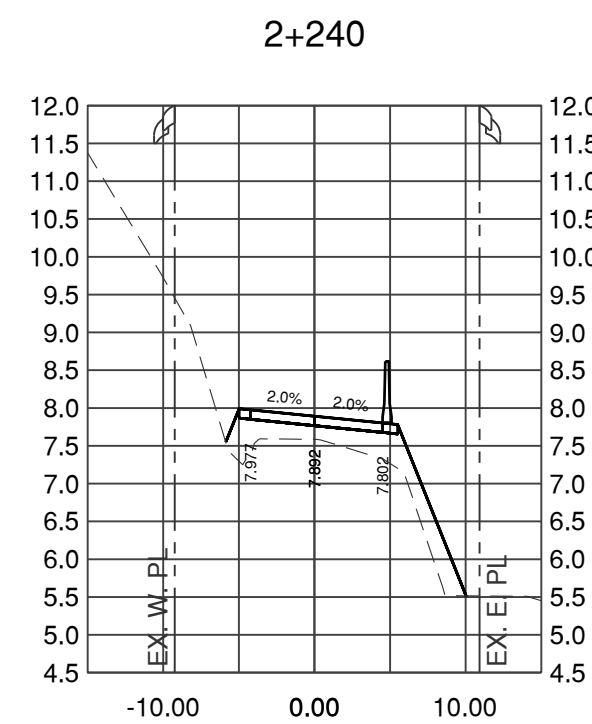
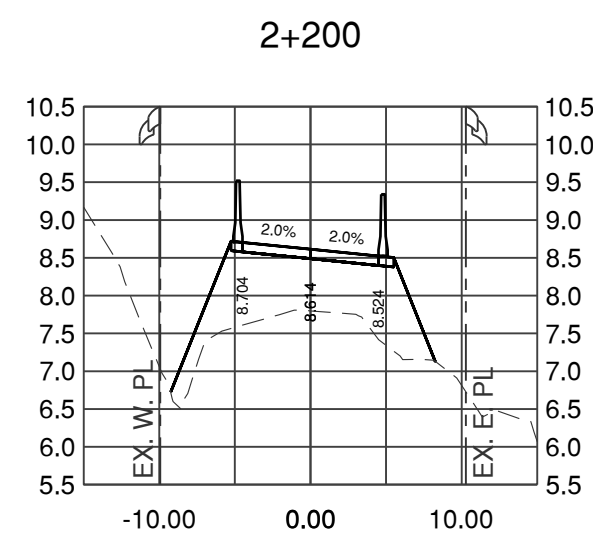
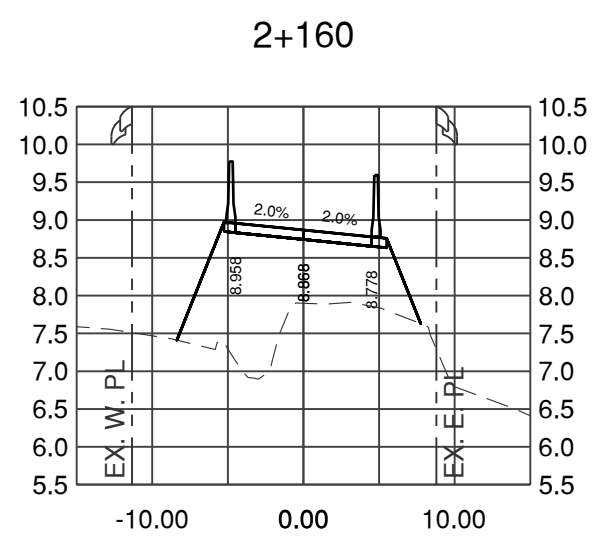
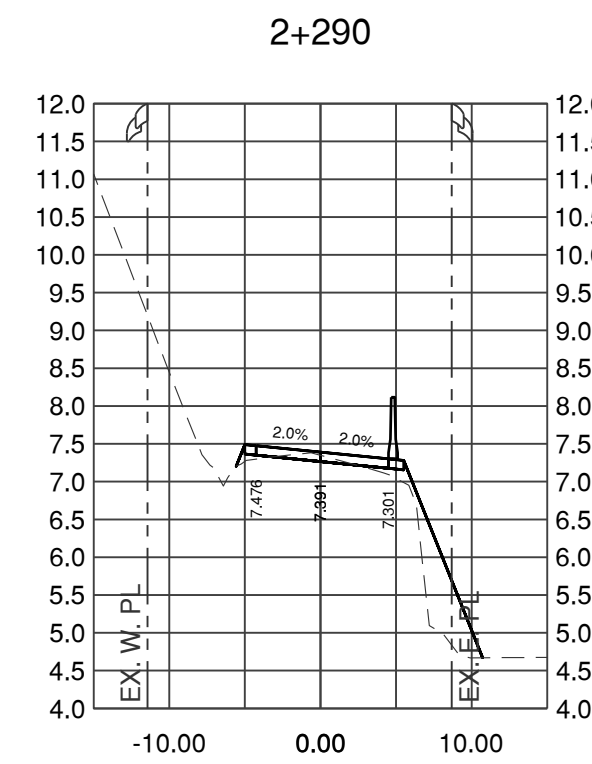
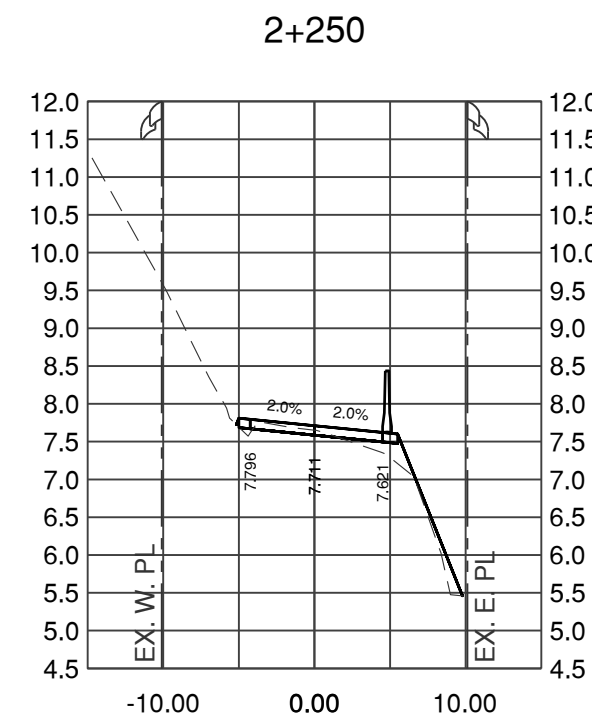
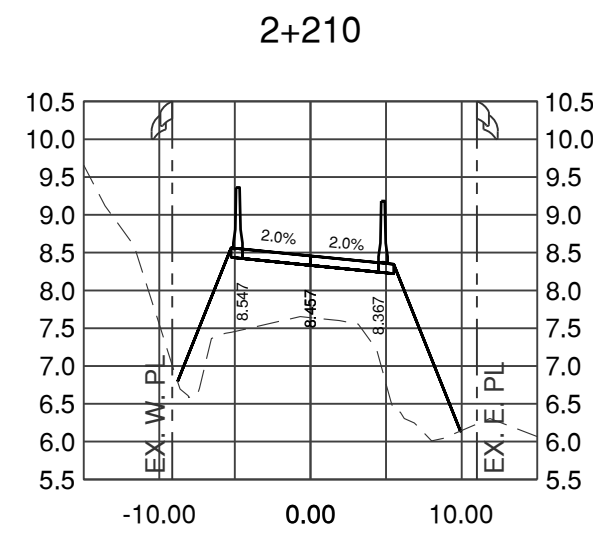
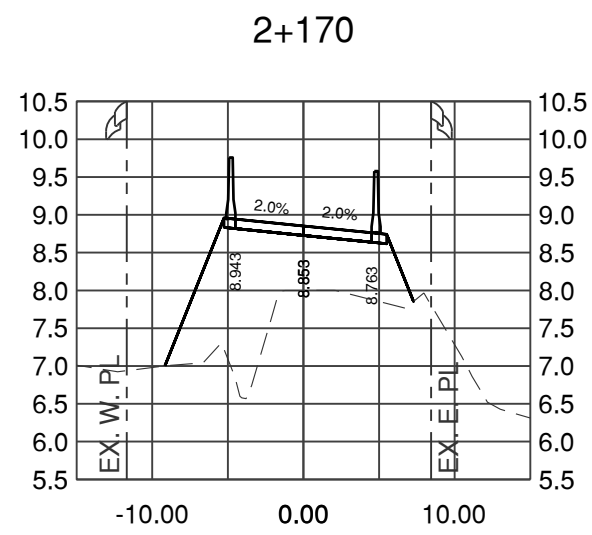
Design by	Date
BB	2026-05-27
Drawn by	Date
BB	2026-05-27
Checked by	Date
RA	2026-05-27
Approved by	Date
CS	2026-05-27



Scale	1:500	Scale	1:100
horiz.		vert.	
Sheet	16	of	30
Eng. Project No.	21-0273		

Project	QUARRY ROAD UPGRADES
	CALGARY DR - MACINTYRE CREEK
Description	CROSS SECTIONS
File:	21-0273-XS1-4
REV:	A

BENCHMARK:
MONUMENT 77H4129 LOCATED AT INTERSECTION OF
GILLEY'S TRAIL, QUARRY RD. & VICTORIA DR.,
10.73 M SWLY FROM ERN FENCE, ELEV. 17.527M
SURVEY PROVIDED BY
COASTLINE LAND SURVEYING LTD.
& RF BINNIE & ASSOCIATES LTD.



0 1:500 20m
0 1:100 4m

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Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole(joint pole)	Vegetation Canifer
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
A	2026-05-27	BB	ISSUED FOR TENDER

Design by	Date
BB	2026-05-27
Drawn by	Date
BB	2026-05-27
Checked by	Date
RA	2026-05-27
Approved by	Date
CS	2026-05-27

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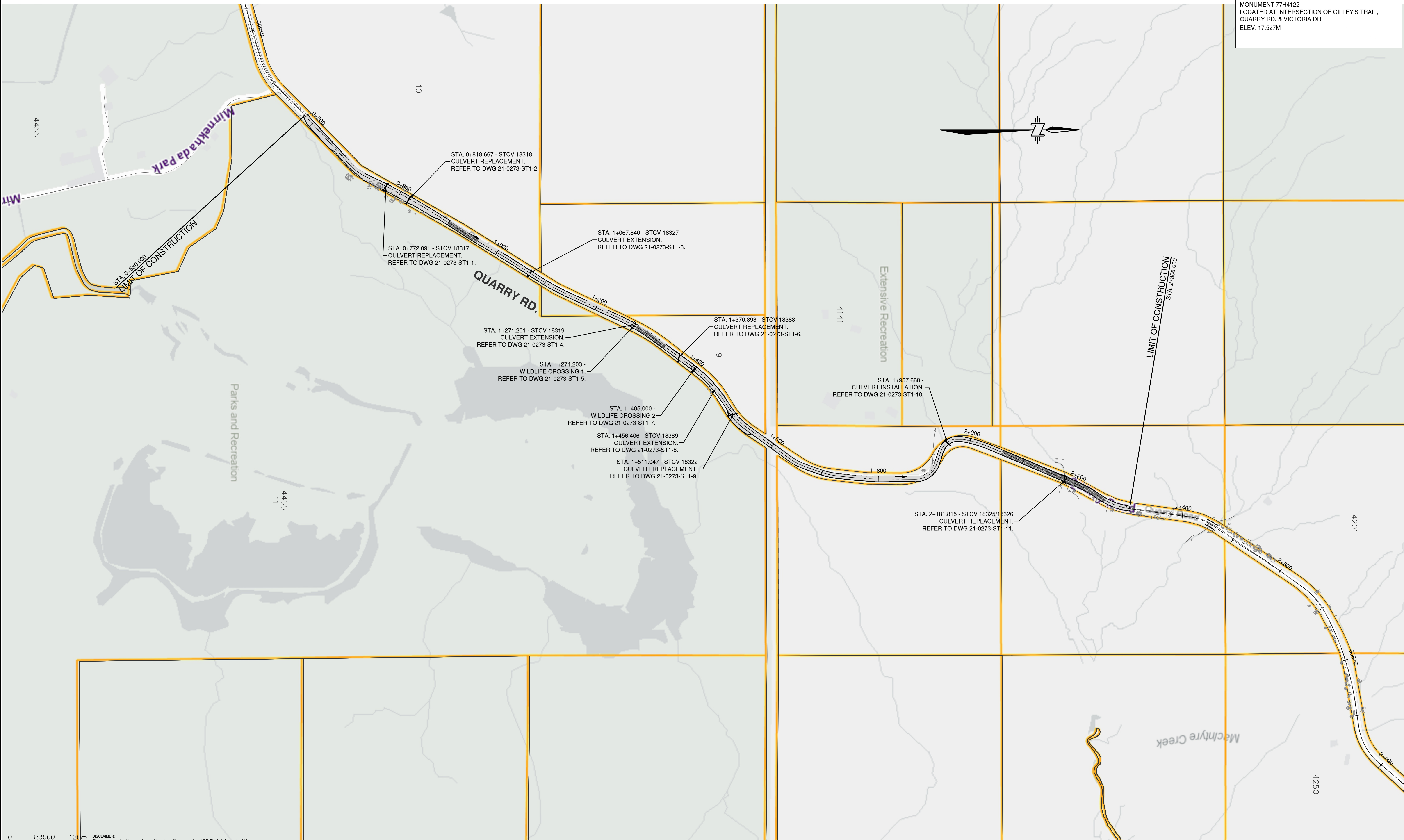
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale 1:500
horiz. 17
Sheet 30
Eng. Project No. 21-0273

Project	QUARRY ROAD UPGRADES CALGARY DR - MACINTYRE CREEK
Description	CROSS SECTIONS
File:	21-0273-XS1-5
REV:	A

NOT FOR CONSTRUCTION

BENCHMARK:
MONUMENT 77H4122
LOCATED AT INTERSECTION OF GILLEY'S TRAIL,
QUARRY RD. & VICTORIA DR.
ELEV: 17.527M



NOT FOR CONSTRUCTION

Edge of pavement		Hydrant		Sanitary service		Hydro Gyo Wire	
Watermain and valve		Water air valve		Sanitary cleanout		Hydro Kiosk	
Drainage sewer, MH		Water blowoff		Utility pole (joint pole)		Vegetation Conifer	
Drainage ditch		Water service		Utility pole with light		Vegetation Deciduous	
Sanitary sewer, MH		Catch basin, top inlet		Streetlight, dawl		Vegetation Shrub	
Sanitary cleanout		Catch basin, side inlet		Streetlight, top post		Survey Inverse Hub	
Gasmain, air valve		Catch basin, round		Comb signal pole		Survey Level Pin	
Hydro duct, MH		Drainage service		Traffic signal pole		Survey Lead Plug	
Telephone duct, MH		Drainage cleanout		Junction box		Survey Monument	

A	2026-05-27	JT	ISSUED FOR TENDER
No.	Date	By	Revisions

Design by	Date
GB	2026-05-27
Drawn by	Date
SL	2026-05-27
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JT	2026-05-27
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Scale 1:3000 Scale 1:3000
horiz. vert.

Sheet 18 of 30

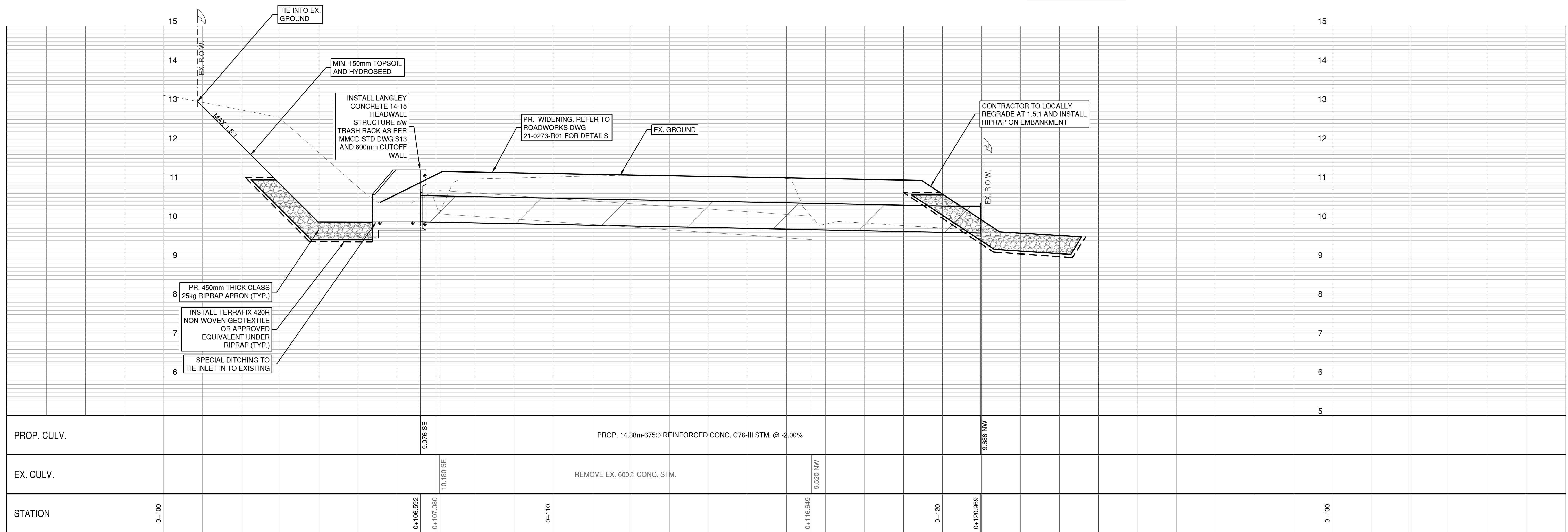
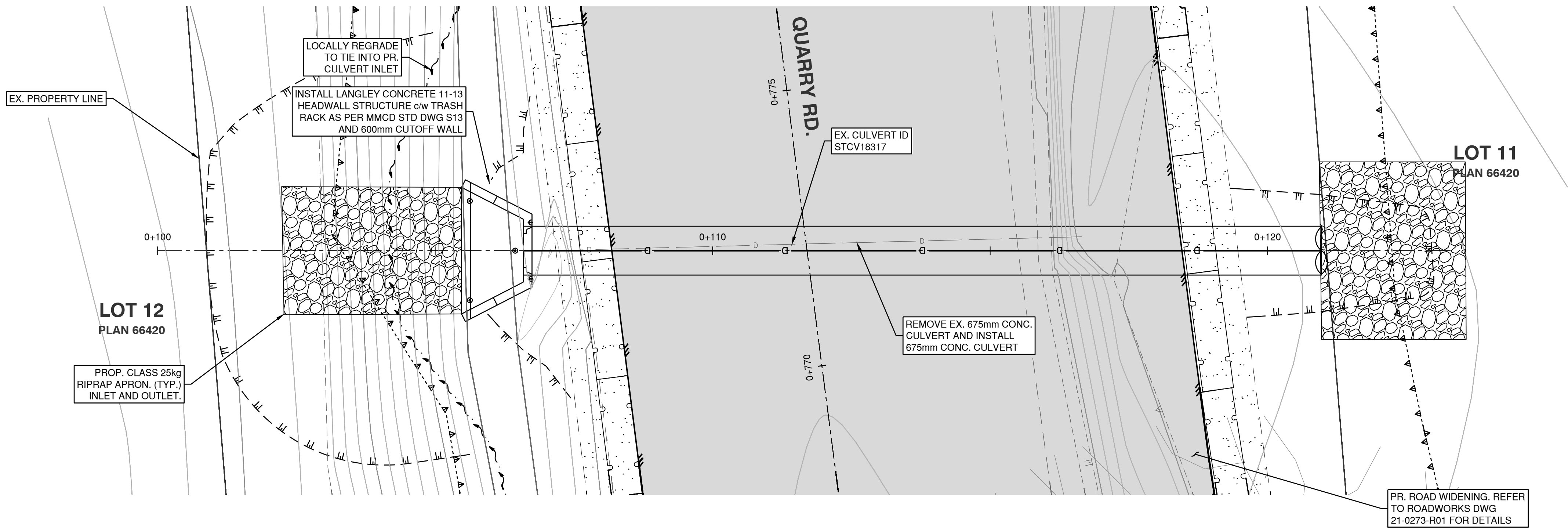
Eng. Project No. 21-0273

Project: QUARRY ROAD CULVERT UPGRADES

Description: CULVERT KEY PLAN

File: 21-0273-KP REV. A

BENCHMARK:
MONUMENT 77H4123
LOCATED AT INTERSECTION OF GILLEY'S TRAIL,
QUARRY RD. & VICTORIA DR.
ELEV: 17.527M



0 1:50 2m
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NOT FOR CONSTRUCTION

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole(joint pole)	Vegetation Canister
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
A	2026-05-27	JT	ISSUED FOR TENDER

Design by	Date
GB	2026-05-27
Drawn by	Date
SL	2026-05-27
Checked by	Date
JT	2026-05-27
Approved by	Date
CS	2026-05-27

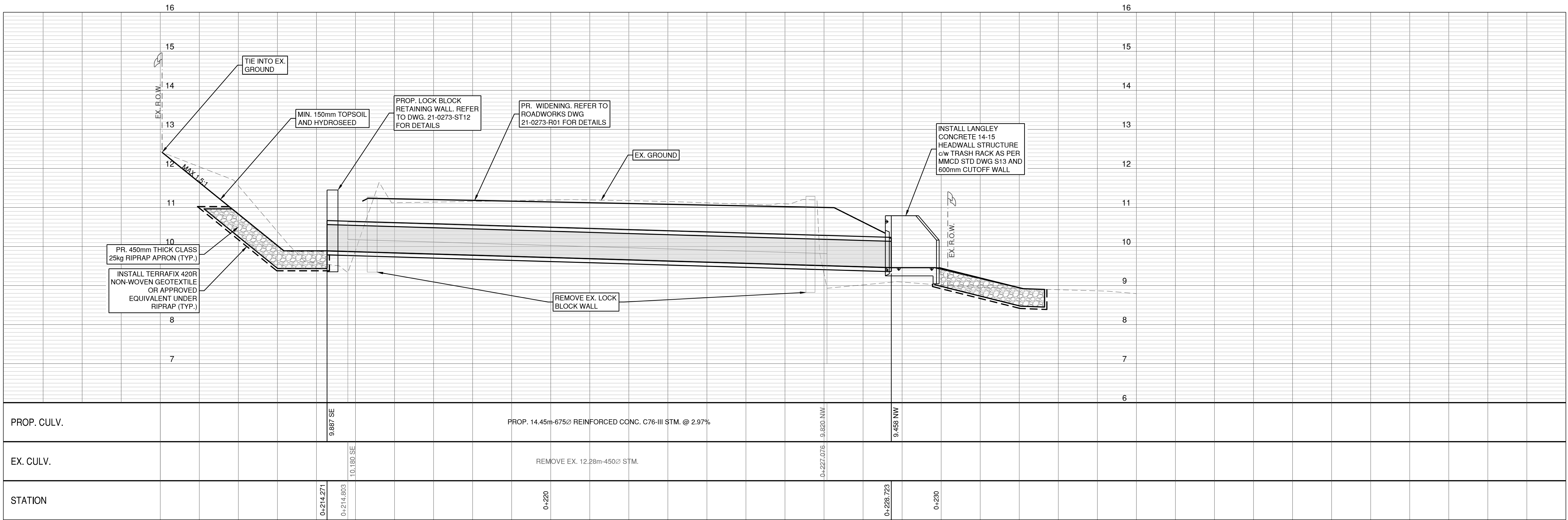
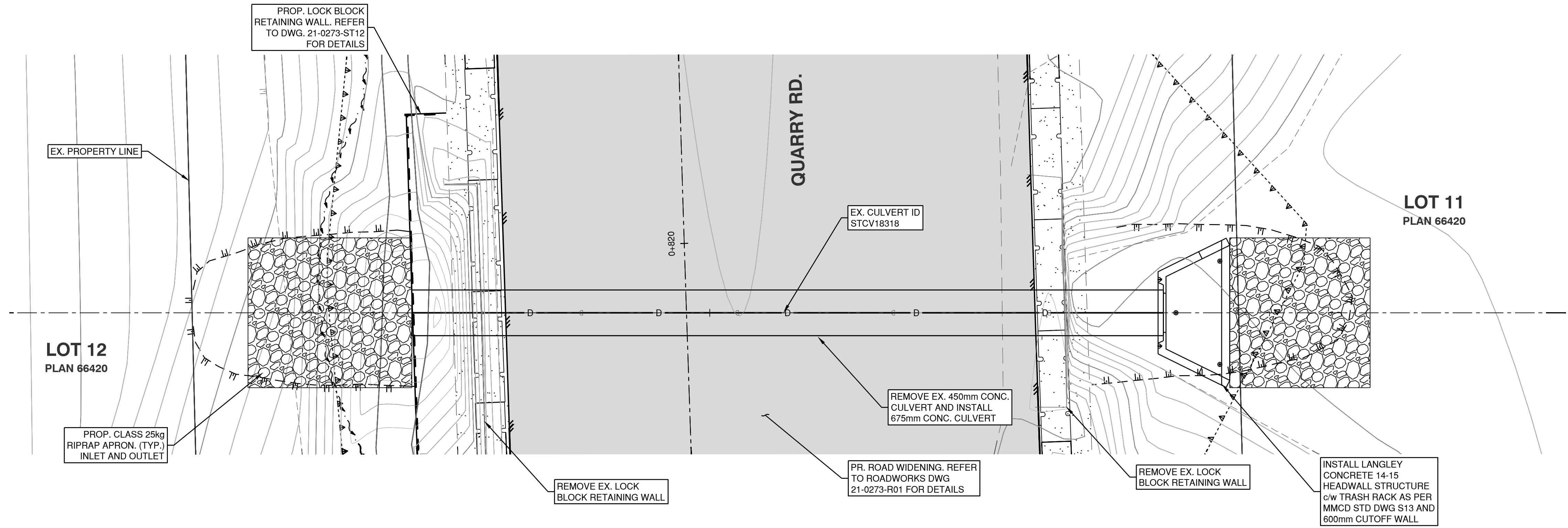
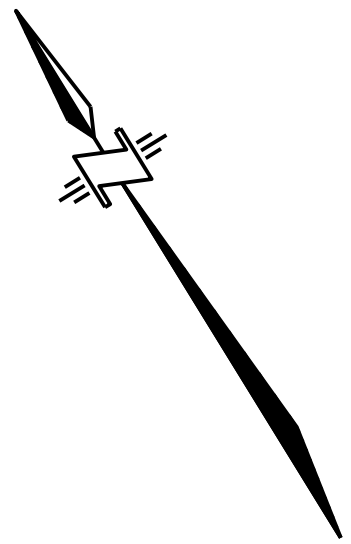


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horiz.	19	vert.	30
Sheet	19	of	30
Eng. Project No.	21-0273		

Project	QUARRY ROAD CULVERT UPGRADES
	STA 0+775
Description	CULVERTS - STCV 18317
File:	21-0273-ST1-1
REV:	A

Plot Date: May 27, 2026

BENCHMARK:
MONUMENT 77H4124
LOCATED AT INTERSECTION OF GILLEY'S TRAIL,
QUARRY RD. & VICTORIA DR.
ELEV: 17.527M



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NOT FOR CONSTRUCTION

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage ditch	Water blowoff	Utility pole (joint pole)	Vegetation Canister
Sanitary sewer, MH	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary force main	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

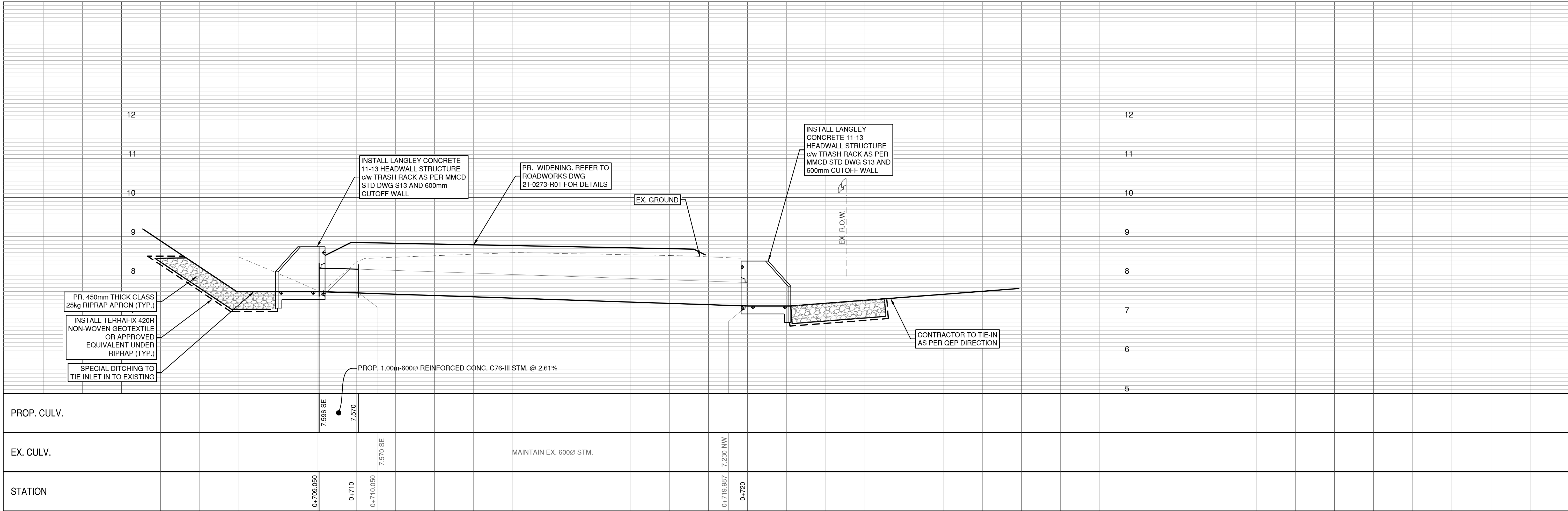
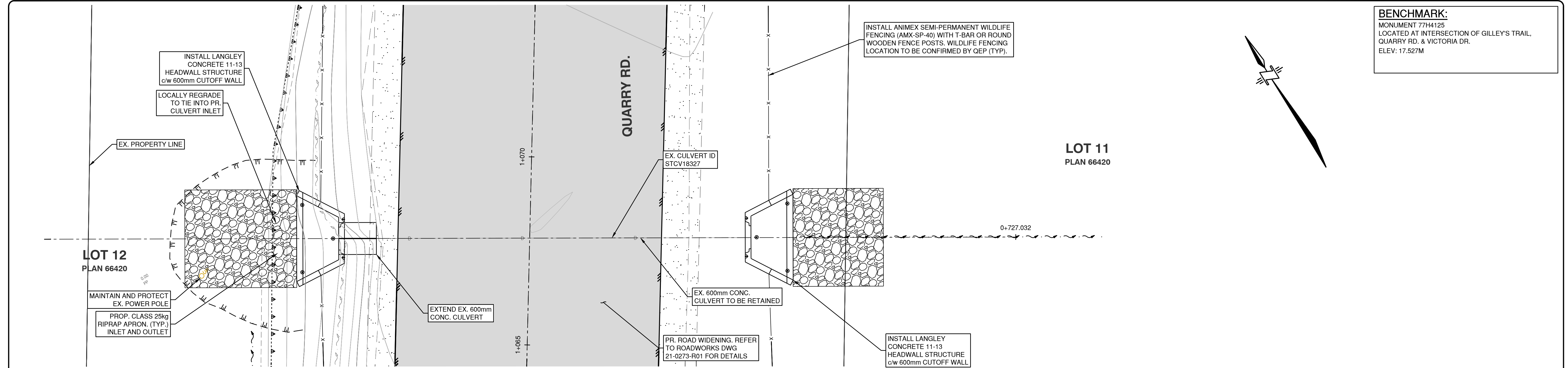
No.	Date	By	Revisions
A	2026-05-27	JT	ISSUED FOR TENDER

Design by	Date
GB	2026-05-27
Drawn by	Date
SL	2026-05-27
Checked by	Date
JT	2026-05-27
Approved by	Date
CS	2026-05-27



Scale	1:50	Scale	1:50
horiz.	1:50	vert.	1:50
Sheet	20	of	30
Eng. Project No.	21-0273		

Project	QUARRY ROAD CULVERT UPGRADES
	STA 0+820
Description	CULVERTS - STCV 18318
File:	21-0273-ST1-2
REV:	A



0 1:50 2m

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NOT FOR CONSTRUCTION

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole(joint pole)	Vegetation Canister
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

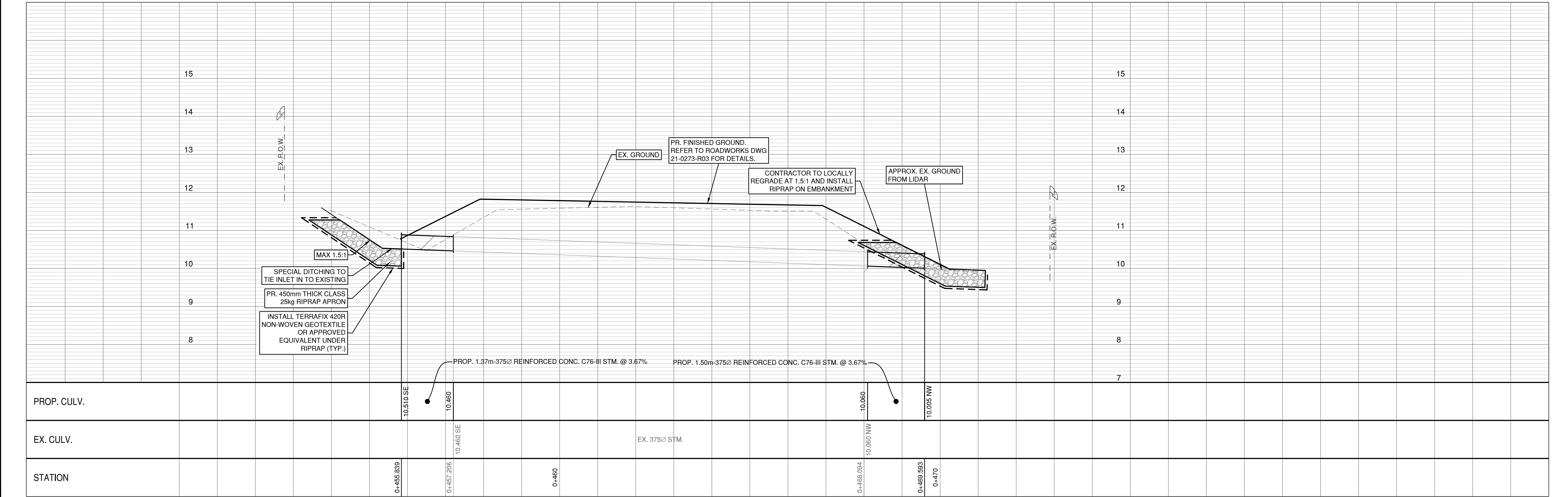
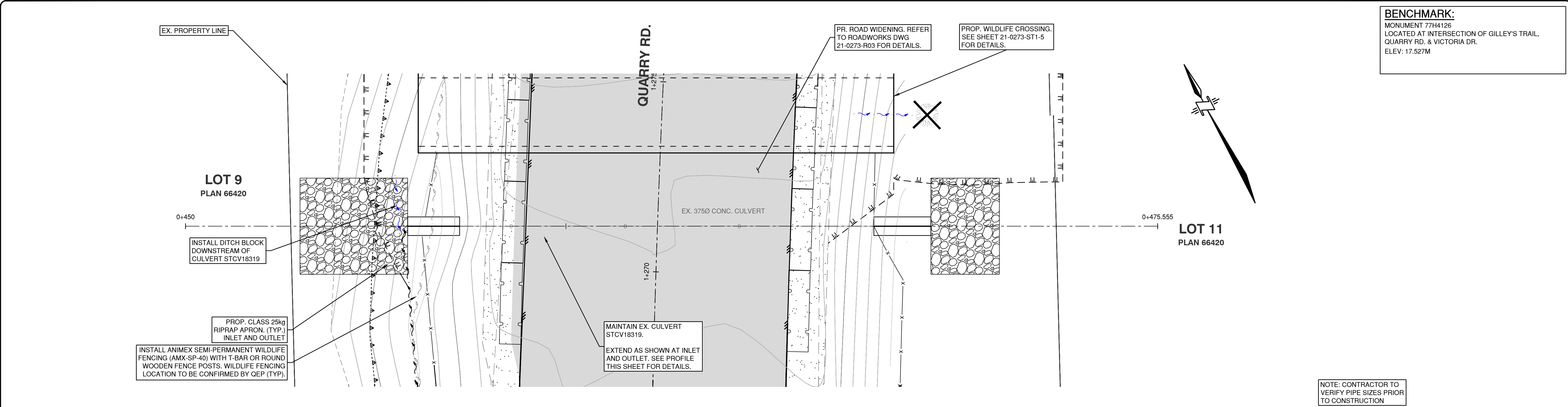
No.	Date	By	Revisions
A	2026-05-27	JT	ISSUED FOR TENDER

Design by	Date
GB	2026-05-27
Drawn by	Date
SL	2026-05-27
Checked by	Date
JT	2026-05-27
Approved by	Date
CS	2026-05-27



Scale	1:50	Scale	1:50
horiz.	21	vert.	30
Sheet	21	of	30
Eng. Project No.	21-0273		

Project	QUARRY ROAD CULVERT UPGRADES
	STA 1+070
Description	CULVERTS - STCV 18327
File	21-0273-ST1-3
REV.	A



0 1:50 2m

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Edge of pavement
Watermain and valve
Drainage ditch
Sanitary sewer, MH
Sanitary forcemain
Gasmain and valve
Hydro duct, MH
Telephone duct, MH

Hydrant
Water air valve
Water blowoff
Water service
Catch basin, top inlet
Catch basin, side inlet
Catch basin, round
Drainage service
Drainage cleanout

Sanitary service
Sanitary cleanout
Utility pole (joint pole)
Utility pole with light
Streetlight, down
Streetlight, post top
Comb signal pole
Traffic signal pole
Junction box

Hydro Guy Wire
Hydro Kiosk
Vegetation Canifer
Vegetation Deciduous
Vegetation Shrub
Survey Traverse Hub
Survey Iron Pin
Survey Lead Plug
Survey Monument

Design by	GB	Date	2026-05-27
Drawn by	SL	Date	2026-05-27
Checked by	JT	Date	2026-05-27
Approved by	CS	Date	2026-05-27

No.	Date	By	Revisions
A	2026-05-27	JT	ISSUED FOR TENDER

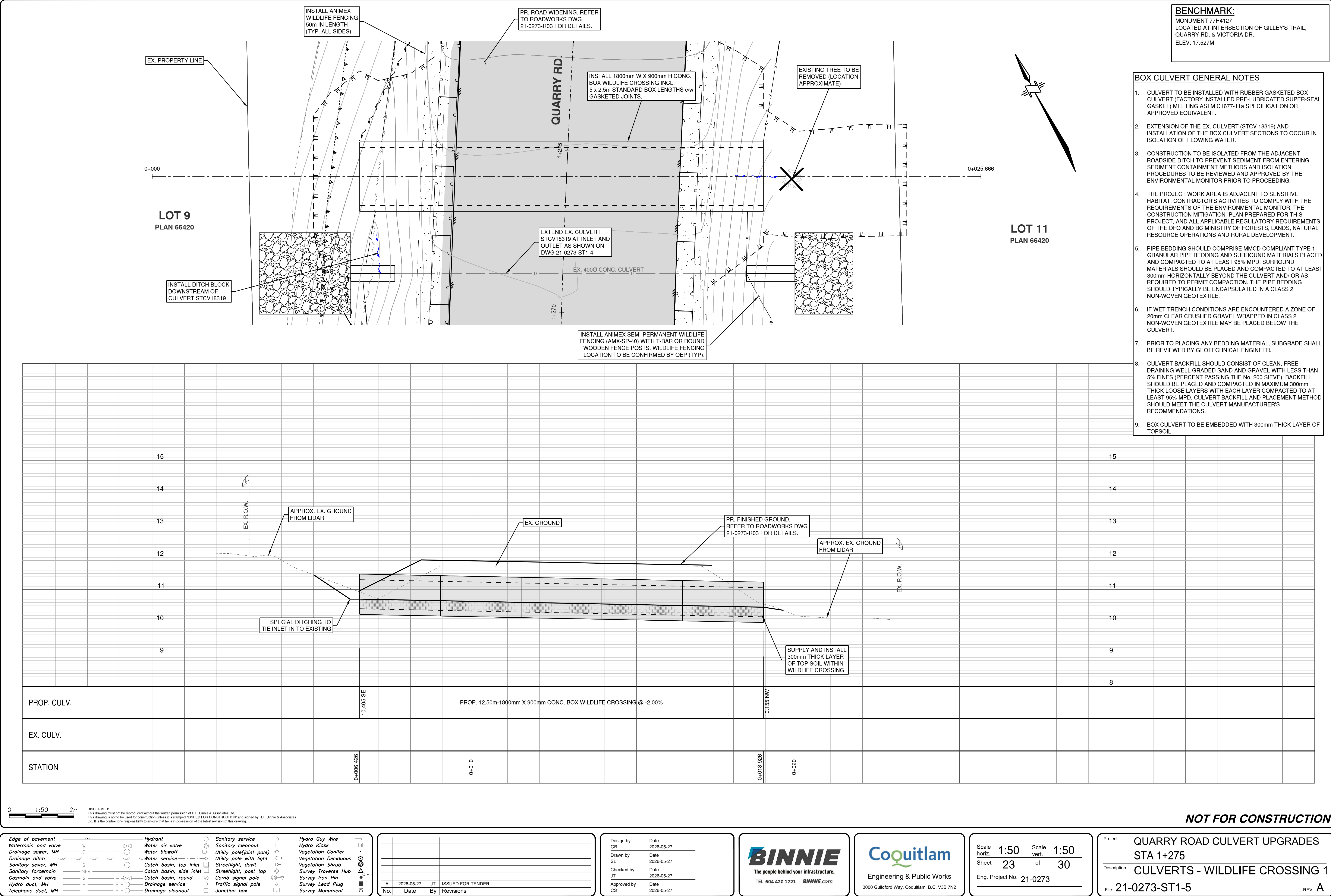
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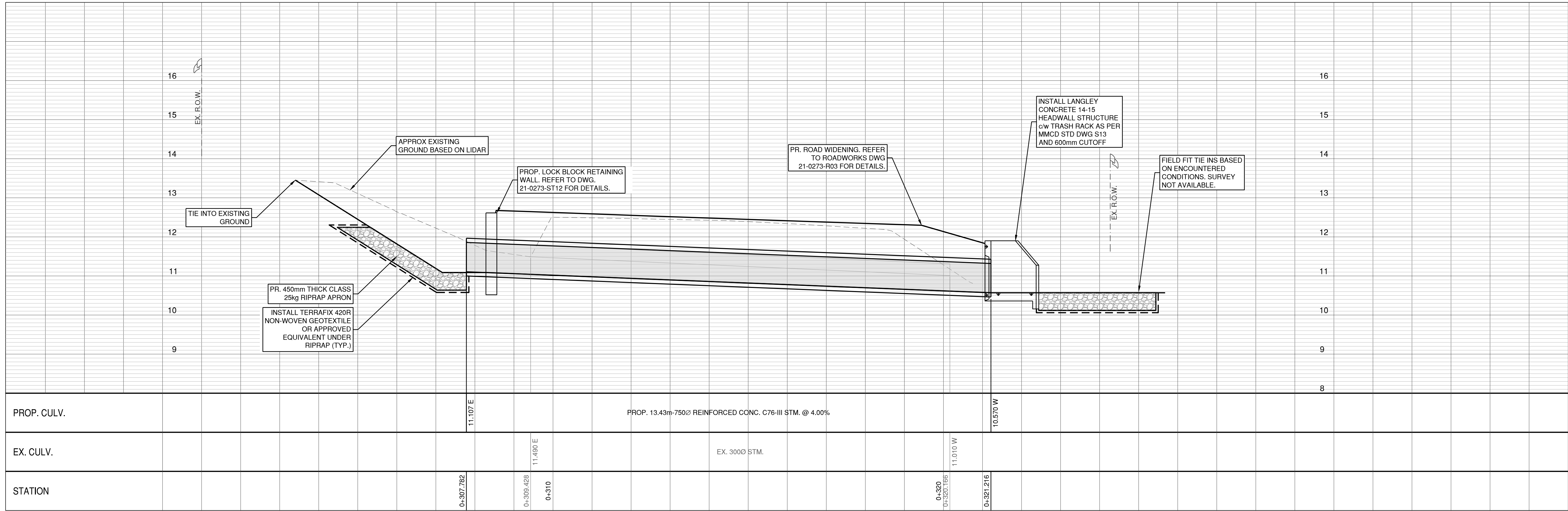
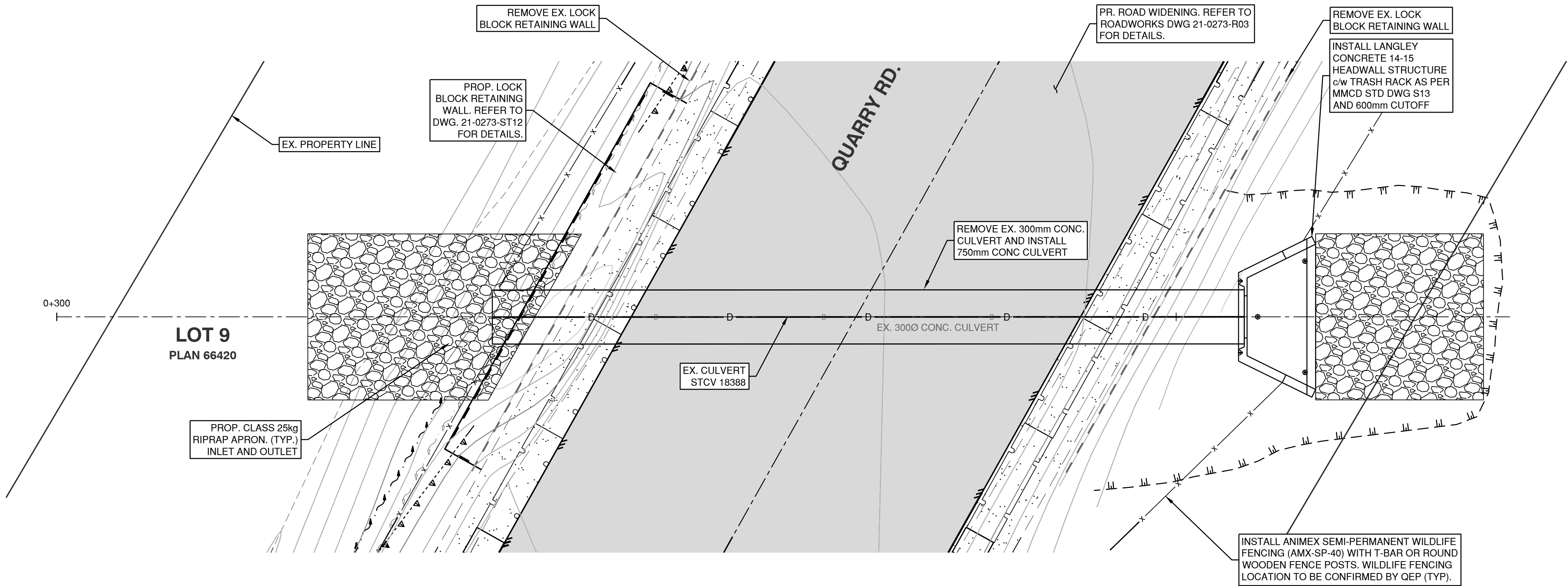
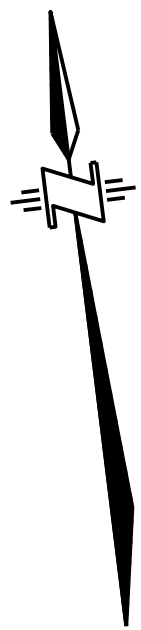
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Sheet	of		
Eng. Project No.	21-0273		

Project	QUARRY ROAD CULVERT UPGRADES
Station	STA 1+270
Description	CULVERTS - STCV-18319
File	21-0273-ST1-4

REV. A



BENCHMARK:
MONUMENT 77H4128
LOCATED AT INTERSECTION OF GILLEY'S TRAIL,
QUARRY RD. & VICTORIA DR.
ELEV: 17.527M



0 1:50 2m

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NOT FOR CONSTRUCTION

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole(joint pole)	Vegetation Canister
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

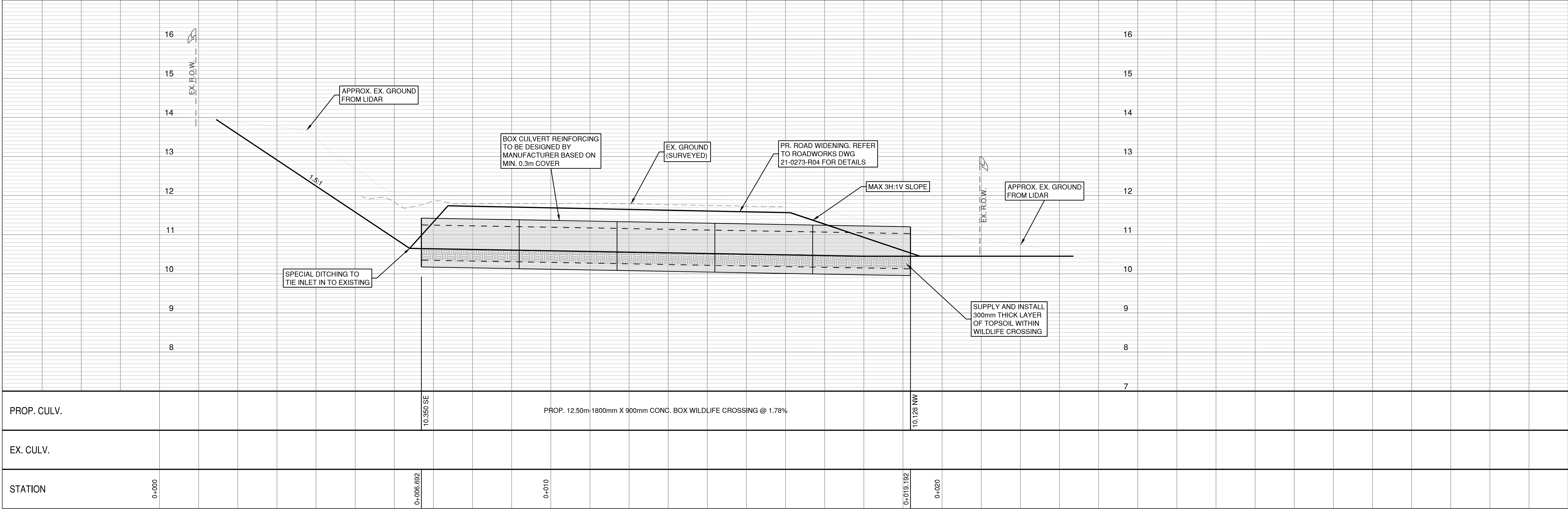
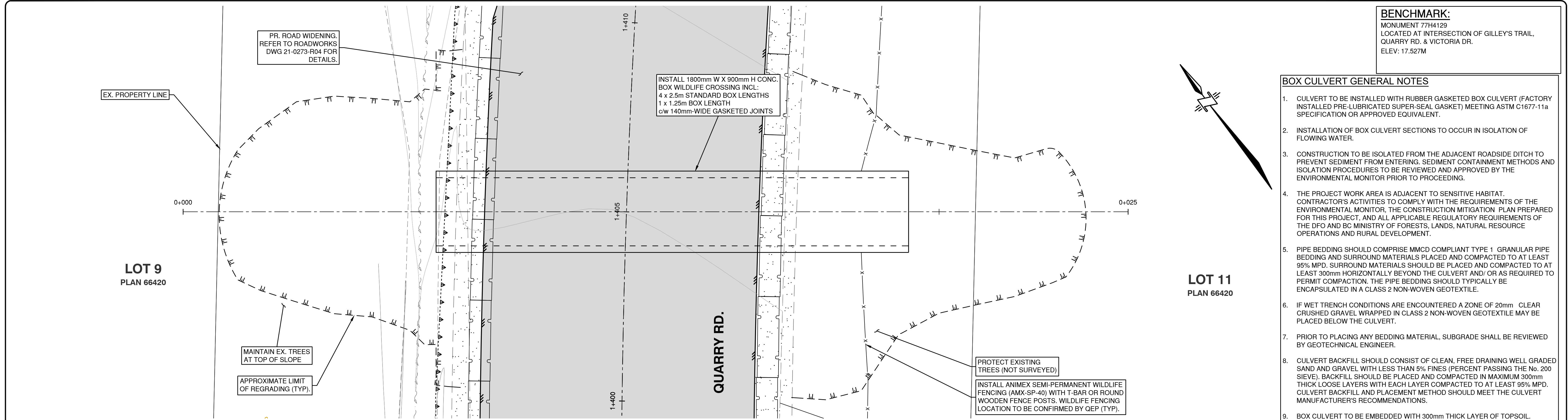
No.	Date	By	Revisions
A	2026-05-27	JT	ISSUED FOR TENDER

Design by	Date
GB	2026-05-27
Drawn by	Date
SL	2026-05-27
Checked by	Date
JT	2026-05-27
Approved by	Date
CS	2026-05-27



Scale	1:50	Scale	1:50
horiz.	1:50	vert.	1:50
Sheet	24	of	30
Eng. Project No.	21-0273		

Project	QUARRY ROAD CULVERT UPGRADES
	STA 1+370
Description	CULVERTS - STCV 18388
File:	21-0273-ST1-6
REV.	A



BENCHMARK:
MONUMENT 77H4129
LOCATED AT INTERSECTION OF GILLEY'S TRAIL,
QUARRY RD. & VICTORIA DR.
ELEV: 17.527M

LOT 11
PLAN 66420

QUARRY RD.

CONTRACTOR TO
MAINTAIN AND PROTECT
EX. LOCK BLOCK WALL

MAINTAIN EX.
CULVERT ID
128/STCV18389

EX. 5000 CONC. CULVERT

PROP. FILL IN FRONT OF
RETAINING WALL TO ACHIEVE
MAX. SLOPE OF 1.5H:1V AT
OUTLET

PROTECT EX. TREES ON
EITHER SIDE OF CHANNEL
WITH RIPRAP

PR. ROAD WIDENING. REFER
TO ROADWORKS DWG
21-0273-R04 FOR DETAILS.

EX. PROPERTY LINE
INSTALL ANIMEX SEMI-PERMANENT WILDLIFE
FENCING (AMX-SP-40) WITH T-BAR OR ROUND
WOODEN FENCE POSTS. WILDLIFE FENCING
LOCATION TO BE CONFIRMED BY QEP (TYP).

NOTE: CONTRACTOR TO
VERIFY PIPE SIZES PRIOR
TO CONSTRUCTION

MAINTAIN EX.
RETAINING WALL

PR. ROAD WIDENING. REFER
TO ROADWORKS DWG
21-0273-R04 FOR DETAILS

EX. GROUND

MAINTAIN EX.
RETAINING WALL

PROP. FILL OVER CULVERT
EXTENSION AND IN FRONT OF EX.
RETAINING WALL TO ALLOW FOR
MAX 1.5H:1V SLOPES
SURROUNDING OUTLET

INSTALL 450mm
THICK CLASS 25KG
RIPRAP APRON

PROP. CULVERT
EXTENSION TO ALLOW
FOR OUTLET REGRADING

PROP. 2.00m-600Ø
CSP STM. @ 5.94%

INSTALL TERRAFIX 420R
NON-WOVEN GEOTEXTILE
OR APPROVED EQUIVALENT
UNDER RIPRAP

PROP. CULV.

EX. CULV.

STATION

0 1:50 2m
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NOT FOR CONSTRUCTION

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole(joint pole)	Vegetation Conifer
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

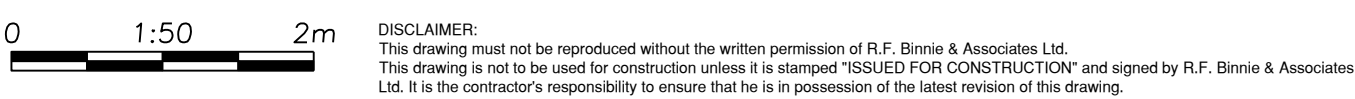
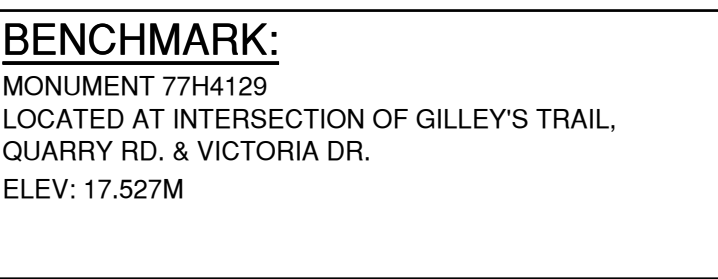
No.	Date	By	Revisions
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Design by	Date
GB	2026-05-27
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JT	2026-05-27
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CS	2026-05-27



Scale	1:50	Scale	1:50
horiz.	1:50	vert.	1:50
Sheet	26	of	30
Eng. Project No.	21-0273		

Project	QUARRY ROAD CULVERT UPGRADES
	STA 1+456
Description	CULVERTS - STCV 18389
File:	21-0273-ST1-8
REV:	A



Edge of pavement	—	Hydrant	Sanitary service	Hydro Guy Wire	⊠
Watermain and valve	— W	Water air valve	Sanitary cleanout	Hydro Kiosk	⊠
Drainage sewer, MH	D	Water blowoff	Utility pole (joint pole)	Vegetation Conifer	⊠
Drainage ditch	—	Water service	Utility pole with light	Vegetation Deciduous	⊠
Sanitary sewer, MH	S	Catch basin, top inlet	Streetlight, davit	Vegetation Shrub	⊠
Sanitary forcemain	SF	Catch basin, side inlet	Streetlight, post	Survey Traverse Hub	⊠
Gasmain and valve	G	Catch basin, round	Cornic Pole	Survey Flag	⊠
Hydro duct, MH	H	Drainage service	Traffic signal pole	Survey Lead Log	⊠
Telephone duct, MH	T	Drainage cleanout	Junction box	Survey Monument	⊠

A	2026-05-27	JT	ISSUED FOR TENDER
No.	Date	By	Revisions

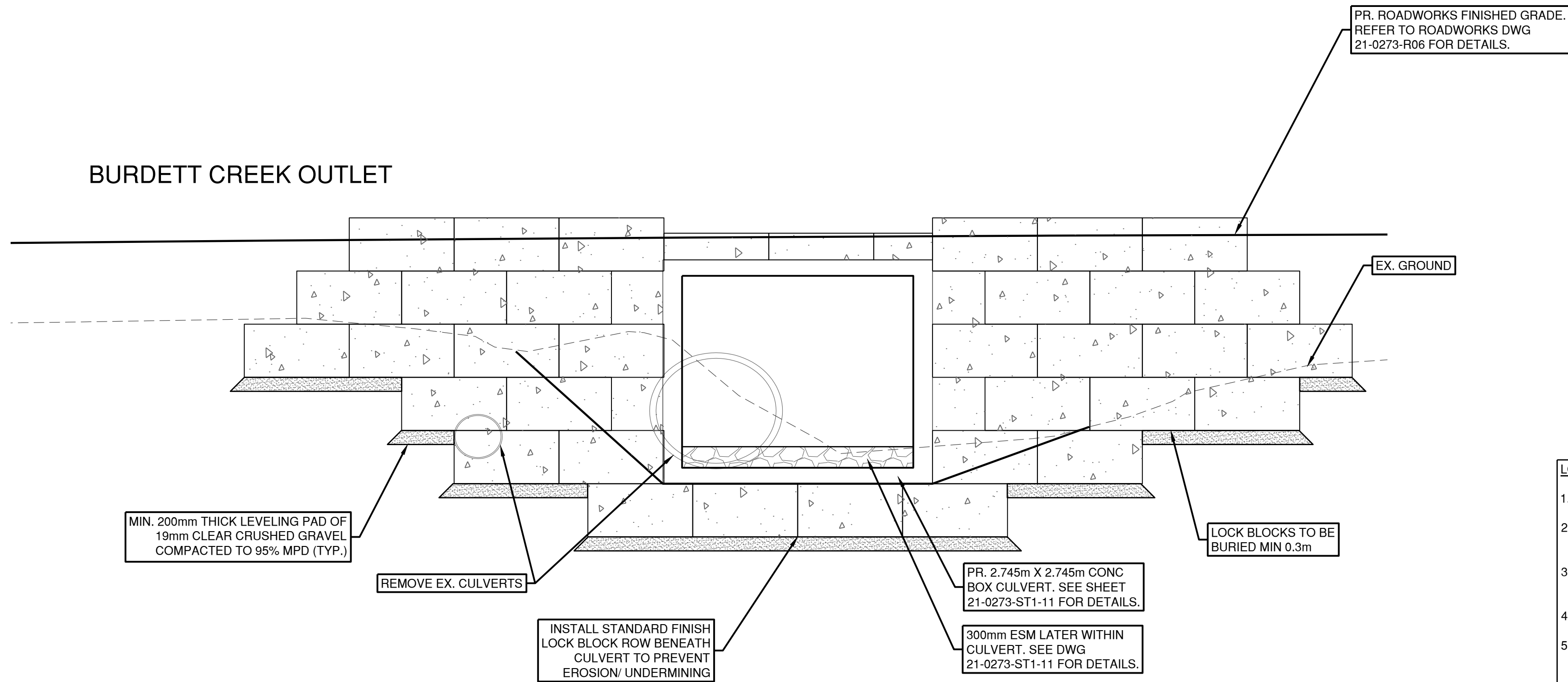
Design by	Date
GB	2026-05-27
Drawn by	Date
SL	2026-05-27
Checked by	Date
JT	2026-05-27
Approved by	Date
CS	2026-05-27



Scale horiz.	1:50	Scale vert.	1:50
Sheet	27	of	30
Eng. Project No. 21-0273			

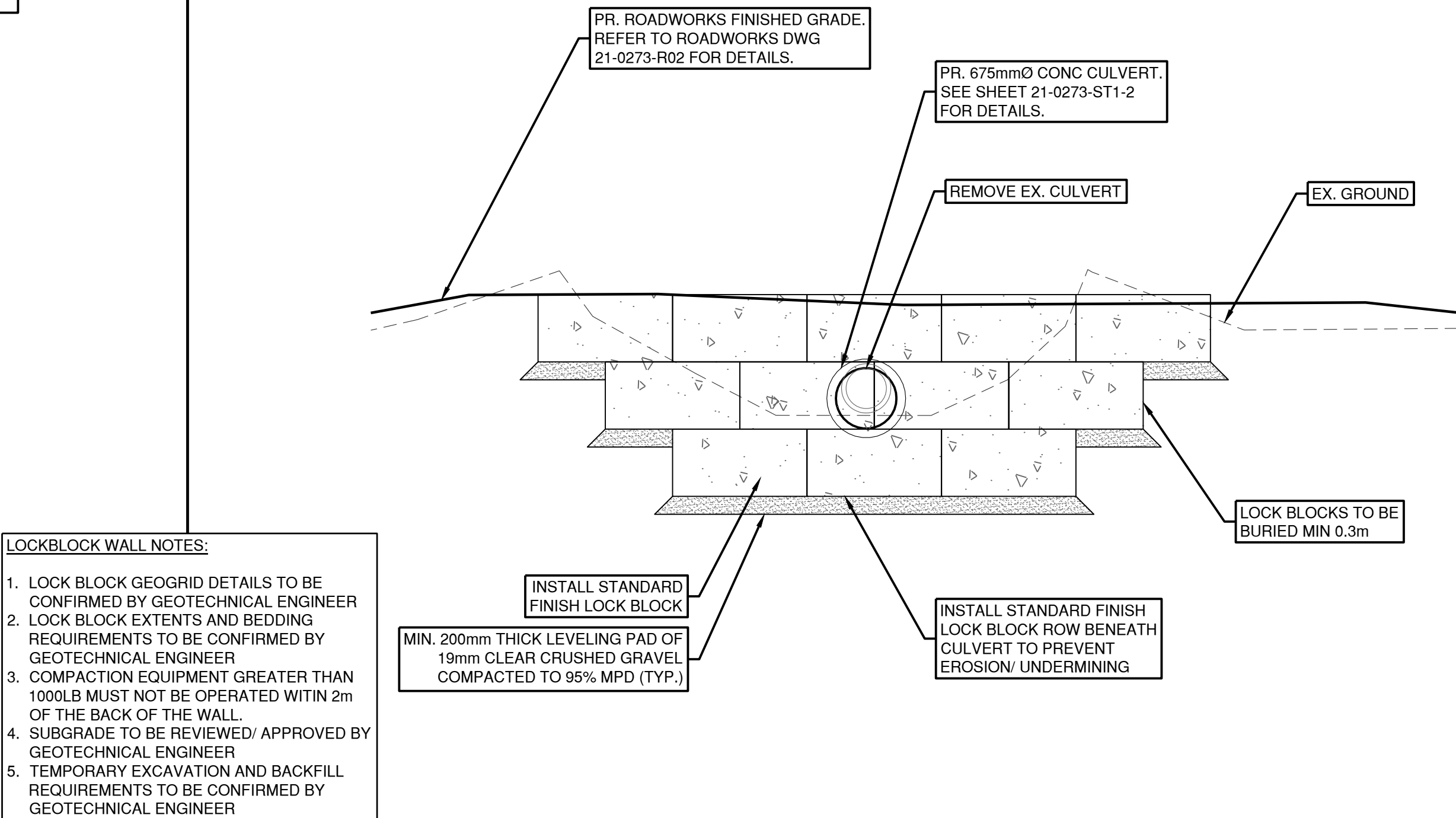
Project	QUARRY ROAD CULVERT UPGRADES STA 1+510
Description	CULVERTS - STCV 18322
File	21-0273-ST1-9
	REV A

BURDETT CREEK - STA 2+180 - WEST WALL



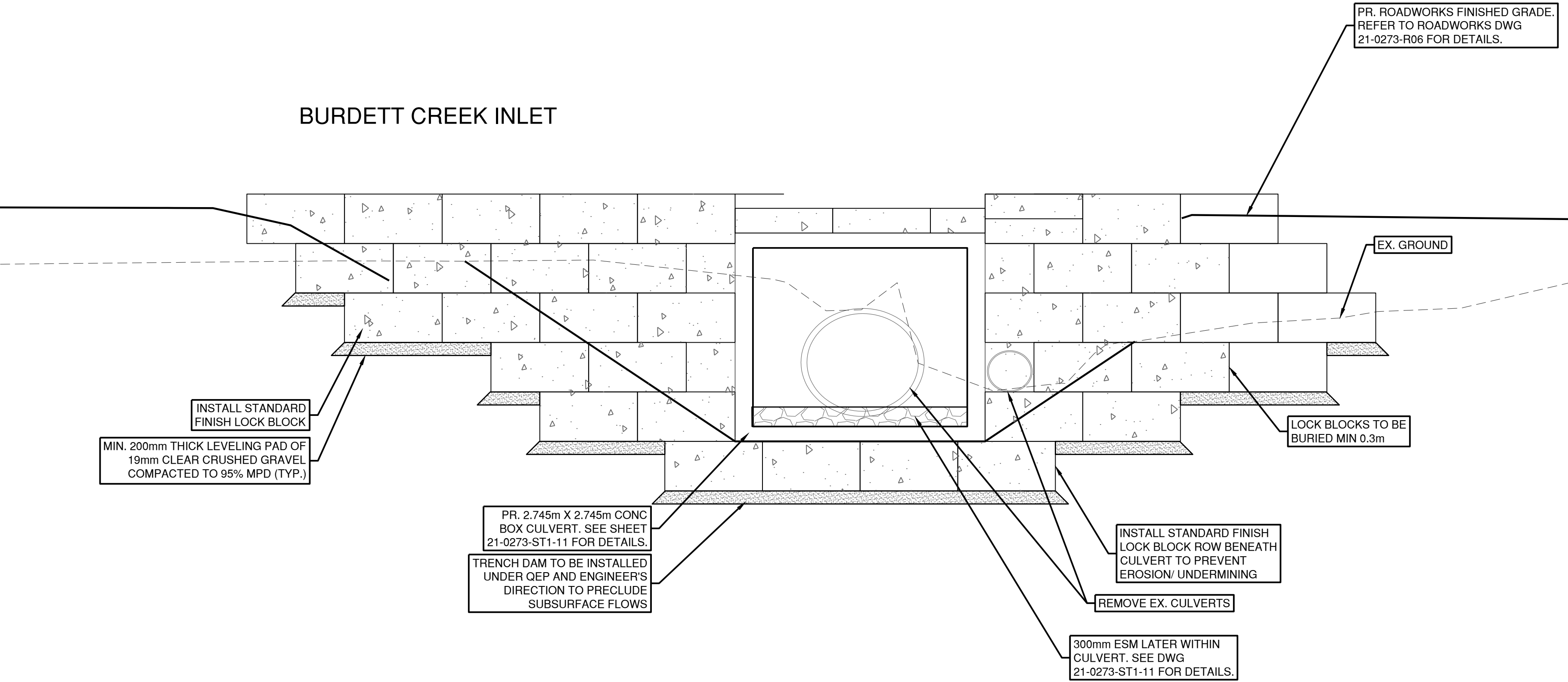
STA 0+820 - WEST WALL

BENCHMARK:
MONUMENT 77H4129
LOCATED AT INTERSECTION OF GILLEY'S TRAIL,
QUARRY RD. & VICTORIA DR.
ELEV: 17.527M

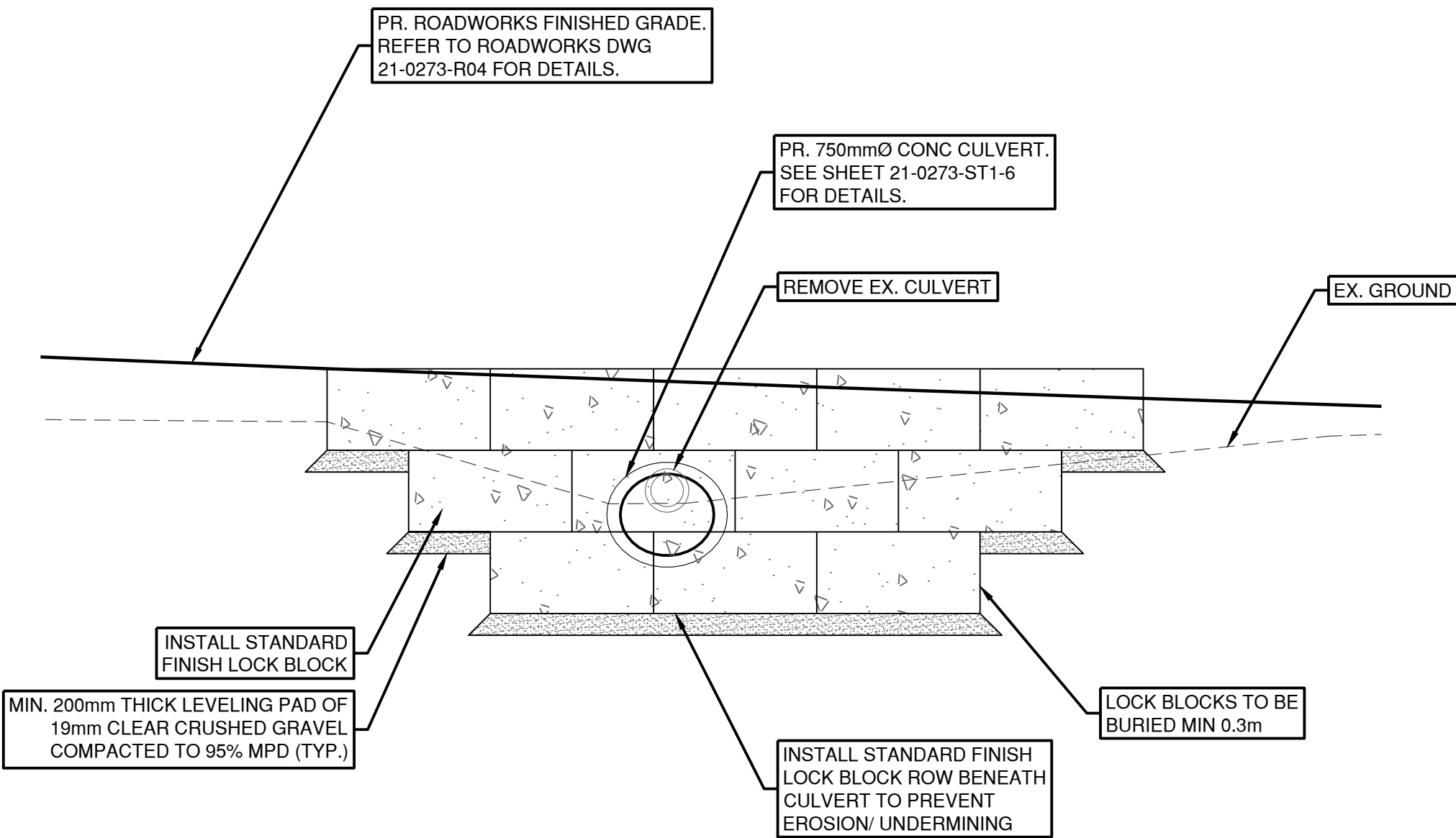


- LOCKBLOCK WALL NOTES:**
1. LOCK BLOCK GEOGRID DETAILS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER
 2. LOCK BLOCK EXTENTS AND BEDDING REQUIREMENTS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER
 3. COMPACTION EQUIPMENT GREATER THAN 1000LB MUST NOT BE OPERATED WITHIN 2m OF THE BACK OF THE WALL
 4. SUBGRADE TO BE REVIEWED/ APPROVED BY GEOTECHNICAL ENGINEER
 5. TEMPORARY EXCAVATION AND BACKFILL REQUIREMENTS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER

BURDETT CREEK - STA 2+180 - EAST WALL



STA 1+370 - WEST WALL



NOT FOR CONSTRUCTION

FILE: \\B-107-FILE000\PROJECTS\2021\21-0273\03 - C&D FILES\DWG\STA\21-0273 - CULVERTS\DWG LAYOUT - 21-0273-R06.DWG USER: BBRISCHER PLOT DATE: 2026-05-27 15:05:45

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Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole(joint pole)	Vegetation Canister
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
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Design by	Date
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JT	2026-05-27
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CS	2026-05-27

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Scale	1:50	Scale	1:50
horiz.		vert.	
Sheet	30	of	30
Eng. Project No.	21-0273		

Project	QUARRY ROAD CULVERT UPGRADES BURDETTE CREEK
Description	INLET & OUTLET DETAILS
File	21-0273-ST1-12
REV.	A