

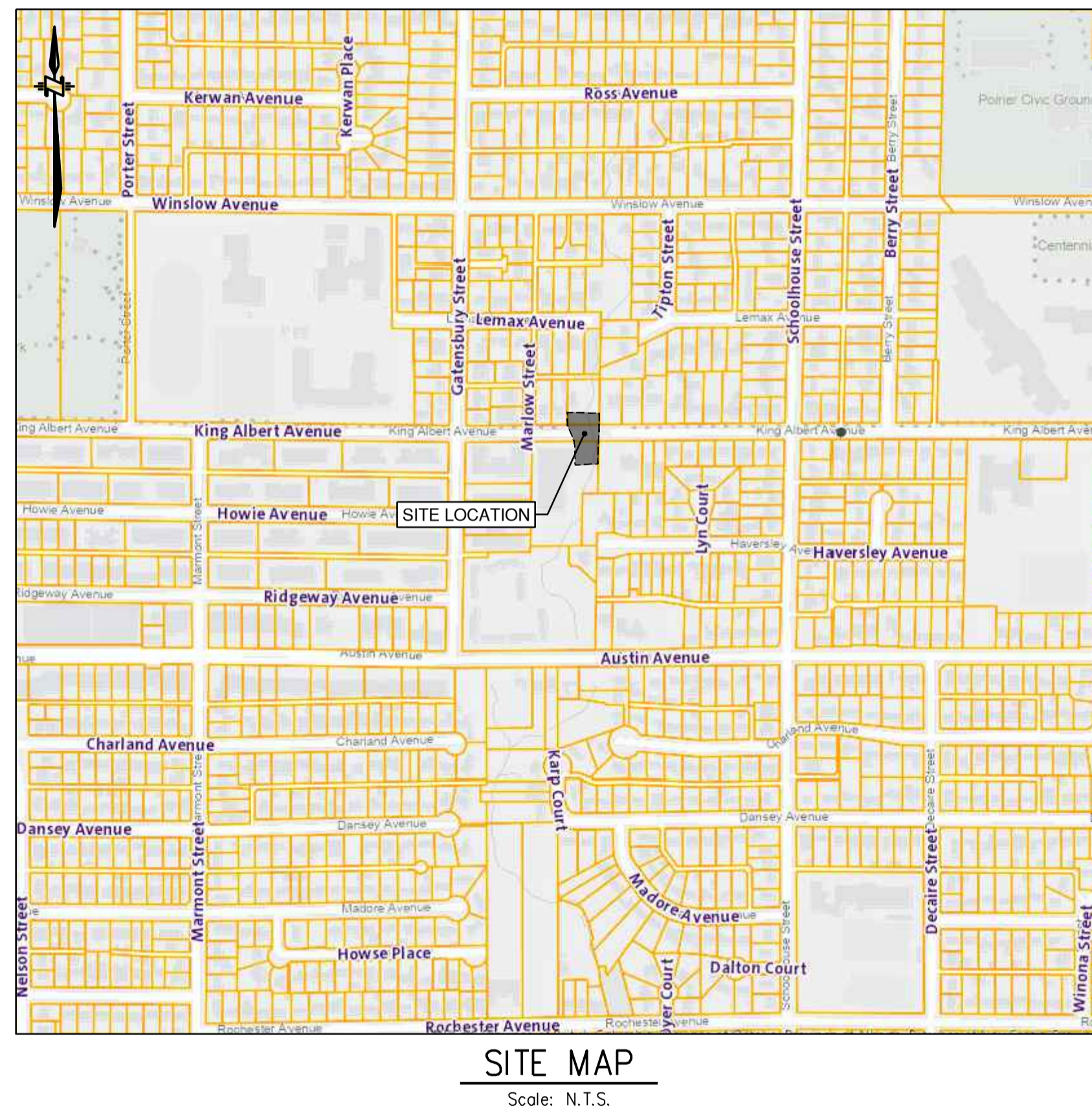
CITY OF COQUITLAM

3000 GUILDFORD WAY, COQUITLAM, BC V3B 7N2

COMO CREEK EROSION PROTECTION

SITE 1 - 1406 KING ALBERT AVENUE

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
		CATV
		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



DRAWING INDEX		
SHEET NUMBER	DRAWING TITLE	DRAWING NUMBER
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2	SITE 1 - KEY PLAN	25-0008-KP1B-1
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R.F. BINNIE & ASSOCIATES LTD.
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 Burnaby, BC V5G 4K6
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GENERAL CONSTRUCTION NOTES

- 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) - 2022 EDITION (PLATINUM BOOK), AND ANY OTHER APPLICABLE DESIGN CRITERIA, SPECIFICATIONS, STANDARD DRAWINGS, AND CONSTRUCTION SPECIFICATIONS.
- 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 CITY OF COQUITLAM ENGINEERING DEPARTMENT 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WITHIN THE ROAD ALLOWANCES AND RIGHTS-OF-WAYS.
- ALL WORK SHALL CONFORM TO THE CONSTRUCTION STANDARDS SPECIFIED IN THE SUBDIVISION AND DEVELOPMENT SERVICES BYLAW AND SHALL PASS THE INSPECTION OF THE CITY OF COQUITLAM OPERATIONS DEPARTMENT.
- 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.
- 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.
- 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.
- 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.
- WORKSAFE B.C. IS TO BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- 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). THE ENGINEER, THE CITY OF COQUITLAM AND THE UTILITY COMPANIES CANNOT BE HELD LIABLE FOR ANY DISCREPANCIES, CONFLICTS OF OMISSIONS
- 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.
- 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.
- EXISTING UNDERGROUND UTILITY TRENCHES ADJACENT TO THE PROPOSED UNDERGROUND UTILITY INSTALLATION SHALL BE ADEQUATELY PROTECTED FROM SLOUGHING IN ORDER TO PREVENT OVER-WIDTH EXCAVATION.
- 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.
- 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.
- 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.
- 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.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNERS FOR A TEMPORARY ENCROACHMENT ON PRIVATE PROPERTY AND A REGISTERED DOCUMENT FOR A PERMANENT ENCROACHMENT.
- 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.

- 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.

- THE CONTRACTOR IS TO NOTIFY THE CITY OF COQUITLAM ENGINEERING DEPARTMENT AND CA 48 HOURS PRIOR TO CONSTRUCTION AND VERIFY THEY HAVE THE LATEST DRAWINGS ISSUED FOR CONSTRUCTION.
- ALL EXCAVATION WITHIN EXISTING TREE DRIP LINES TO BE BY HAND OR HYDRO-VAC.
- 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.
- THE CONTRACTOR SHOULD KEEP RECORDS AND/OR PHOTOS OF EXISTING RETAINING WALLS, TREES, DRIVEWAYS AND WALKWAYS WHERE REQUIRED.
- ALL TREES DESIGNATED TO BE SAVED ARE TO BE PROTECTED BY SNOW FENCING.
- ANY EXISTING SIGNS TEMPORARILY REMOVED DURING CONSTRUCTION WILL BE REINSTATED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- A RECORD DRAWING TOPOGRAPHICAL SURVEY SHOULD BE COMPLETED AFTER CONSTRUCTION TO PICK UP ALL SURFACE FEATURE.

ENVIRONMENTAL NOTES:

- 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.
- CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH ALL MUNICIPAL, PROVINCIAL AND FEDERAL REQUIREMENTS.
- 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.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A SPILL RESPONSE PLAN THAT PROVIDES WRITTEN SAFE WORK PROCEDURES IN THE EVENT OF A SPILL.
- 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 DAMAGE FROM INADEQUATE DRAINAGE PROTECTION. THE DISCHARGE OF ANY SUCH TEMPORARY WORKS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ENVIRONMENTAL NOTES.
- CONTRACTOR RESPONSIBLE FOR MEETING ANY CONDITIONS OUTLINED IN THE WSA CHANGE USE APPROVAL AND DFO PERMIT CONDITIONS.
- CONTRACTOR REQUIRED TO ISOLATE THE WORK AREA FROM FLOWS DURING CONSTRUCTION, ESPECIALLY WHEN INFILLING THE GAP BEHIND THE CULVERT OUTLET.
- CONTRACTOR TO SUBMIT A CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN THAT INCLUDES AN EROSION AND SEDIMENT CONTROL (ESC) PLAN AND MUST BE SUBMITTED AT LEAST 14 DAYS AHEAD OF COMMENCEMENT OF WORKS.
- CONTRACTOR TO REVEGITATE ANY DISTURBED VEGETATION AREAS. IT IS RECOMMENDED THAT CLOSE-CUTTING OF VEGETATION BE CONDUCTING WHERE POSSIBLE TO FACILITATE REGENERATION. PLANTING OF TREES IS LIKELY REQUIRED.
- CARE IS TO BE TAKEN TO MINIMIZE DISTURBANCE TO STREAM SIDE VEGETATION

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING NO SEDIMENT OR SEDIMENT-LADEN WATER, RAW CONCRETE LEACHATE OR OTHER DELETERIOUS SUBSTANCE IS DISCHARGED FROM THE WORKS INTO ANY DITCH, WATERCOURSE, RAVINE AND STORM SEWER SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR TREATING AND FOR THE METHODS USED TO TREAT SEDIMENT-LADEN WATER.
- CONTRACTOR TO MAINTAIN SILT CONTROL FACILITIES FROM CONTRACT START TO FINAL APPROVAL. CONTRACTOR IS RESPONSIBLE FOR TREATING AND FOR THE METHODS USED TO TREAT THE SITE RUNOFF TO ENSURE AT NO TIME DOES THE TOTAL SUSPENDED SOLIDS EXCEED 50 NTU. PH TO BE BETWEEN 6.5-8.5
- AVOID EARTH DISTURBING ACTIVITIES DURING SUBSTANTIAL RAIN EVENTS.
- ALL CATCH BASINS AND LAWN BASINS IN PROXIMITY TO THE SITE ARE TO BE FITTED WITH A SEDIMENT CONTROL DONUT (NILEX MEDIUM - PERMEABILITY 0.38 cms OR APPROVED EQUIVALENT) TO ENSURE STORM WATER QUALITY. CONTROL DEVICES TO BE MAINTAINED IN A FULLY FUNCTIONAL STATE AT ALL TIMES UNTIL FINAL COMPLETION OF THE WORKS.
- CONTRACTOR IS RESPONSIBLE TO INSPECT ALL SILT CONTROL FACILITIES AND TO ENSURE MAINTENANCE OF ALL FACILITIES TO COMPLETION OF PROJECT.
- SILT FENCE/FILTER FABRIC TO BE AMOCO 2130 AND AMOCO 4535 (C-10) RESPECTIVELY OR APPROVED EQUIVALENT.
- ALL DISTURBED SLOPES TO BE HYDROSEEDED WITH THE PREMIER 100% NATIVE COASTAL RIPARIAN GRASS MIX WITH RAINER FIBER PLUS TACKIFIER WOOD FIBRE MULCH.
- ALL TREES TO BE RETAINED UNLESS SPECIFICALLY NOTED FOR REMOVAL ON DRAWING. IF REMOVAL IS REQUIRED FOR CONSTRUCTION, CONTRACTOR TO REVIEW AND CONFIRM WITH ENVIRONMENTAL OPERATIONS PRIOR TO PROCEEDING.
- VEGETATION TO BE REPLANTED AS PER ENVIRONMENTAL SPECIFICATIONS

GEOTECHNICAL NOTES

- REFER TO KONTUR'S GEOTECHNICAL LETTER (REF. K-251699) FOR A FULL LIST OF GEOTECHNICAL RECOMMENDATIONS.
- A GEOTEXTILE OF TYPE TERRAFIX 1200R, OR APPROVED EQUIVALENT, SHOULD BE PLACED AGAINST THE NATURAL SOILS FOR THE OUTFALL AND THE RAVINE SLOPE ON THE SOUTH OF THE OUTFALL PRIOR TO PLACEMENT OF THE RIPRAP SYSTEM.
- THE SLOPE ANGLE OF THE RIPRAP SHOULD BE NO STEEPER THAN 1.5H: 1V (HORIZONTAL : VERTICAL)
- MAXIMUM SLOPES FOR TEMPORARY CUT SLOPES ARE THE RESPONSIBILITY OF THE CONTRACTOR BUT SHOULD NOT BE STEEPER THAN 1.5H:1.0V.

RIPRAP 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. TABLE D PROVIDES FILTER GRADATION
- THE FOLLOWING HOLD POINTS WILL APPLY FOR CLASS 100 kg RIPRAP AND LARGER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - A) GRADATION QC 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
- ALL VOIDS TO BE INFILLED WITH A SMALLER CLASS 10kg OR 25kg RIPRAP AND THEN BACKFILLED WITH EXCAVATED NATURAL SUBSTRATE .
- 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 HOLLOWES 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.
- RIP RAP TO BE CLEAN ANGULAR HARD FRACTURED STONE (GRADATION AS SPECIFIED IN PLAN VIEW).

PROPERTY	ASTM TEST DESIGNATION	ALLOWABLE VALUE
SPECIFIC GRAVITY	D6473	≥2.50
ABSORPTION	D6473	≤2%
SOUNDNESS BY USE OF MAGNESIUM SULPHATE	D5240	≤10% (FOLLOWING 5 CYCLES)
MICRO-DEVAL ABRASION LOSS FACTOR	D6928	≤20%

CLASS OF RIPRAP (kg)	ROCK MASS (kg)			
	PERCENTAGE SMALLER THAN GIVEN ROCK MASS			MAX SIZE
	15%	50%	85%	
10	1	10	30	50
25	2.5	25	75	125
250	25	250	750	1250

CLASS OF RIPRAP (kg)	INTERMEDIATE DIMENSION (mm)			
	PERCENTAGE SMALLER THAN INTERMEDIATE DIMENSION			MAX SIZE
	15%	50%	85%	
10	90	200	285	350
25	125	270	385	450
250	270	575	830	1000

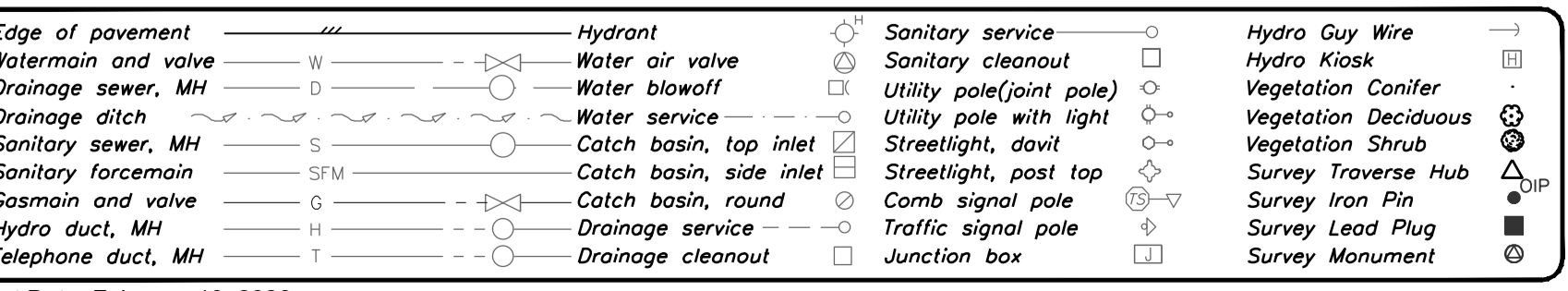
NOTE: TABLE C SHOWS THE INTERMEDIATE DIMENSION AS DEFINED IN THE WOLMAN METHOD AS PER FHWA FLH T 521 CORRESPONDING TO ROCK MASS SHOWN IN TABLE B, BASED ON SPHERICAL VOLUME. USING SPECIFIC GRAVITY = 2.50. REGARDLESS OF ACTUAL SOURCE SPECIFIC GRAVITY, THE DIMENSIONS INDICATED REMAIN APPLICABLE (SUBJECT TO LIMITS SPECIFIED IN TABLE A)

NOT FOR CONSTRUCTION

NOT TO SCALE
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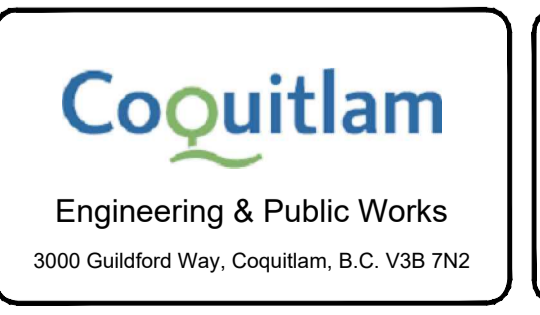
EGBC PERMIT No. 1001128

ISSUED FOR TENDER



No.	Date	By	Revisions
B	2026-02-10	SV	ISSUED FOR TENDER
A	2025-12-11	HL	FOR ENVIRONMENTAL PERMITTING

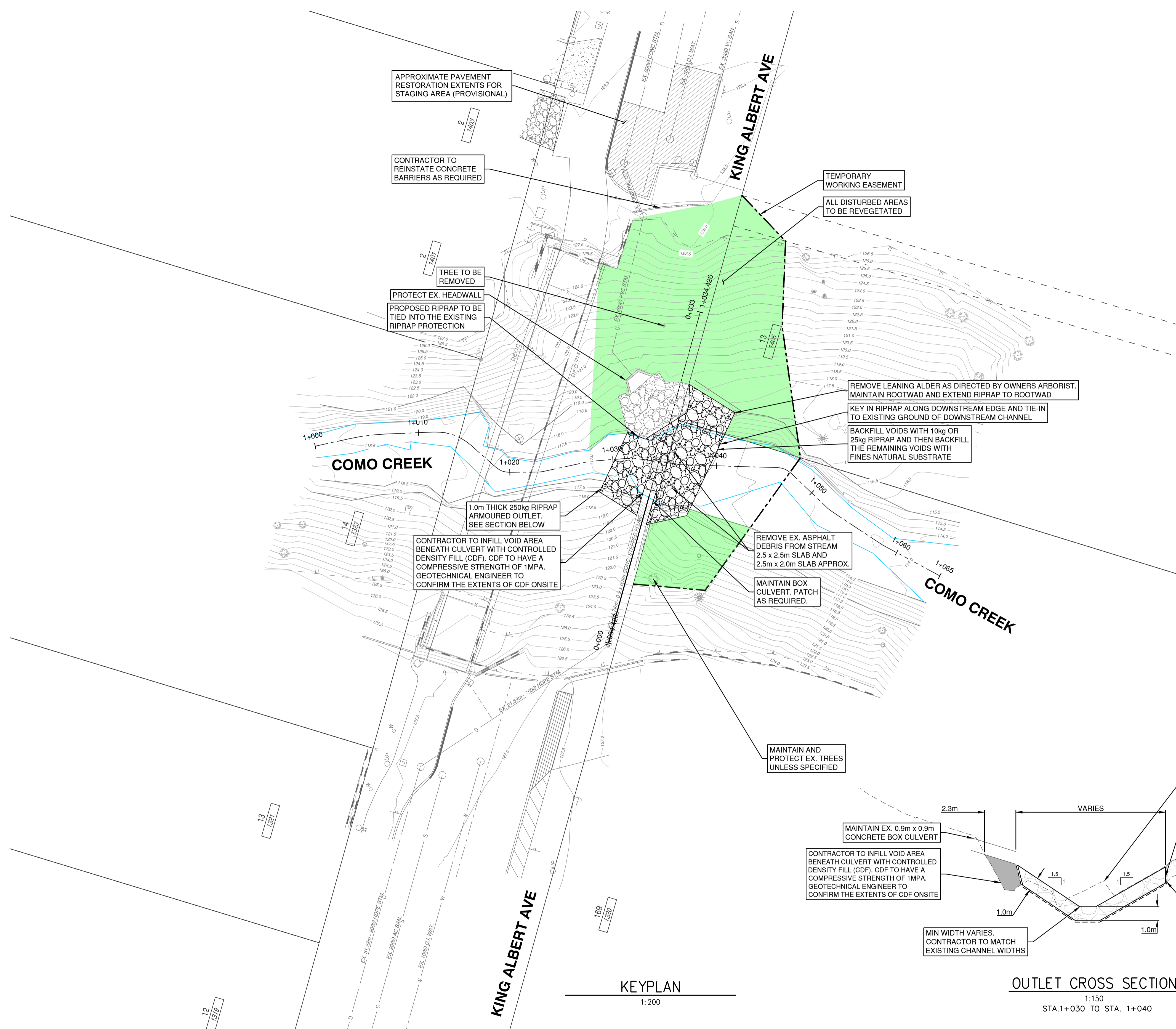
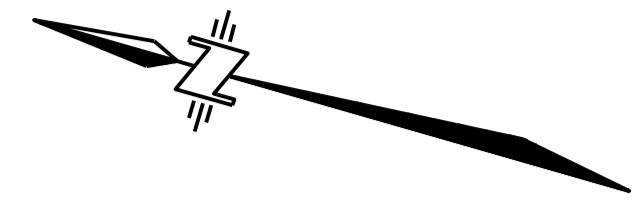
Design by	Date
JC	2025-12-11
Drawn by	Date
HL	2025-12-11
Checked by	Date
JT	2025-12-11
Approved by	Date
JT	2025-12-11



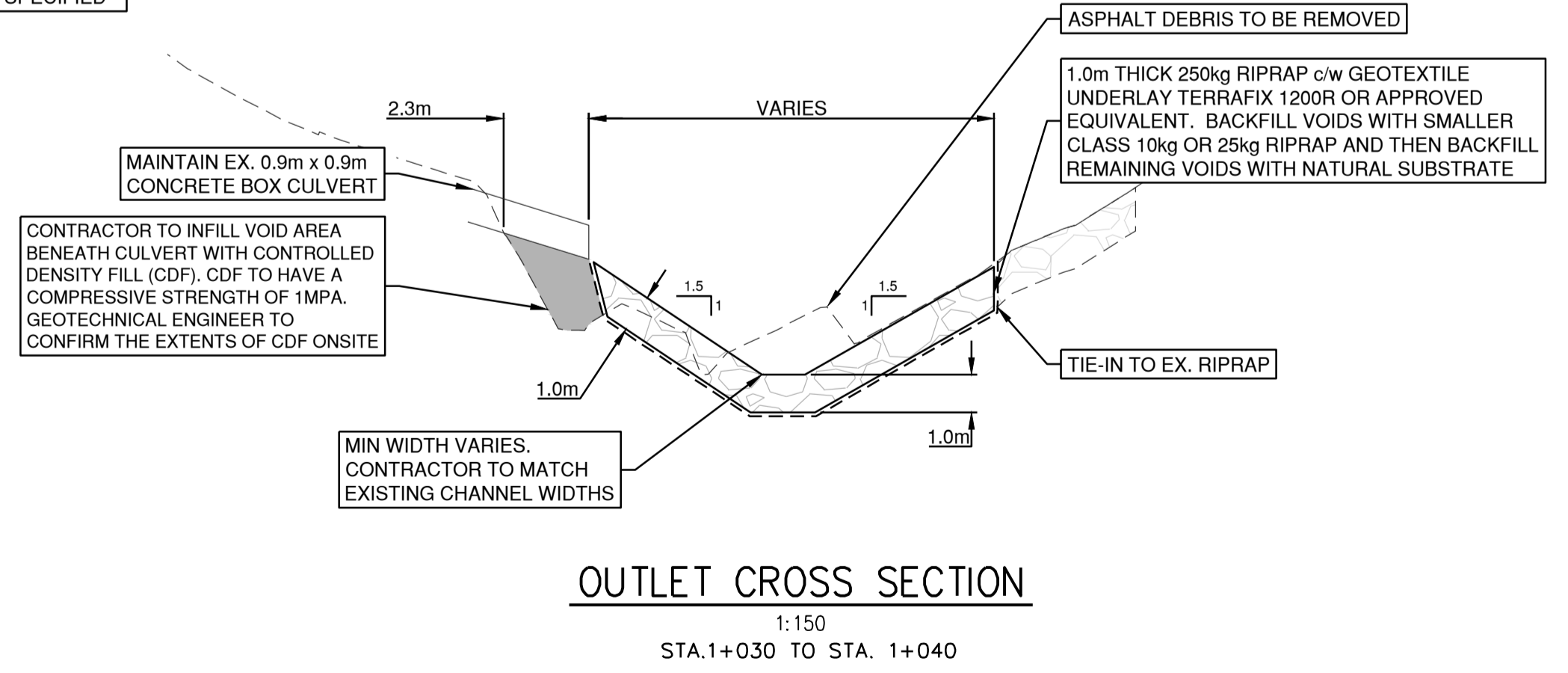
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horiz.		vert.	
Sheet	1	of	3
Eng. Project No.	80257		

Project	COMO CREEK EROSION PROTECTION
	SITE 1 - 1406 KING ALBERT AVENUE
Description	GENERAL NOTES
File:	25-0008-N1B-1
REV.	B

BENCHMARK:
 G.P.S. OBSERVATION AT STN. CUTX
 LOCATED AT MIDDLE OF BRIDGE
 ELEV. = 127.806M CGVD28 (GVRD 2018)



KEYPLAN
 1:200



OUTLET CROSS SECTION
 1:150
 STA.1+030 TO STA. 1+040

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AS SHOWN

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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
A	2025-12-11	HL	FOR ENVIRONMENTAL PERMITTING

Design by	Date
JC	2025-12-11
Drawn by	Date
HL	2025-12-11
Checked by	Date
JT	2025-12-11
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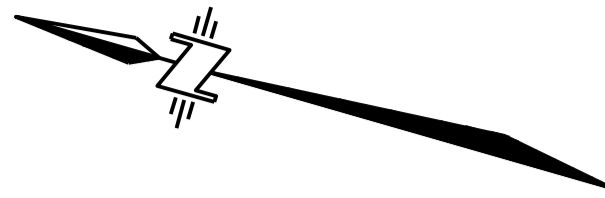
Coquitlam
 Engineering & Public Works
 3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale	AS SHOWN	Scale	AS SHOWN
horiz.		vert.	
Sheet	2	of	3
Eng. Project No.	80257		

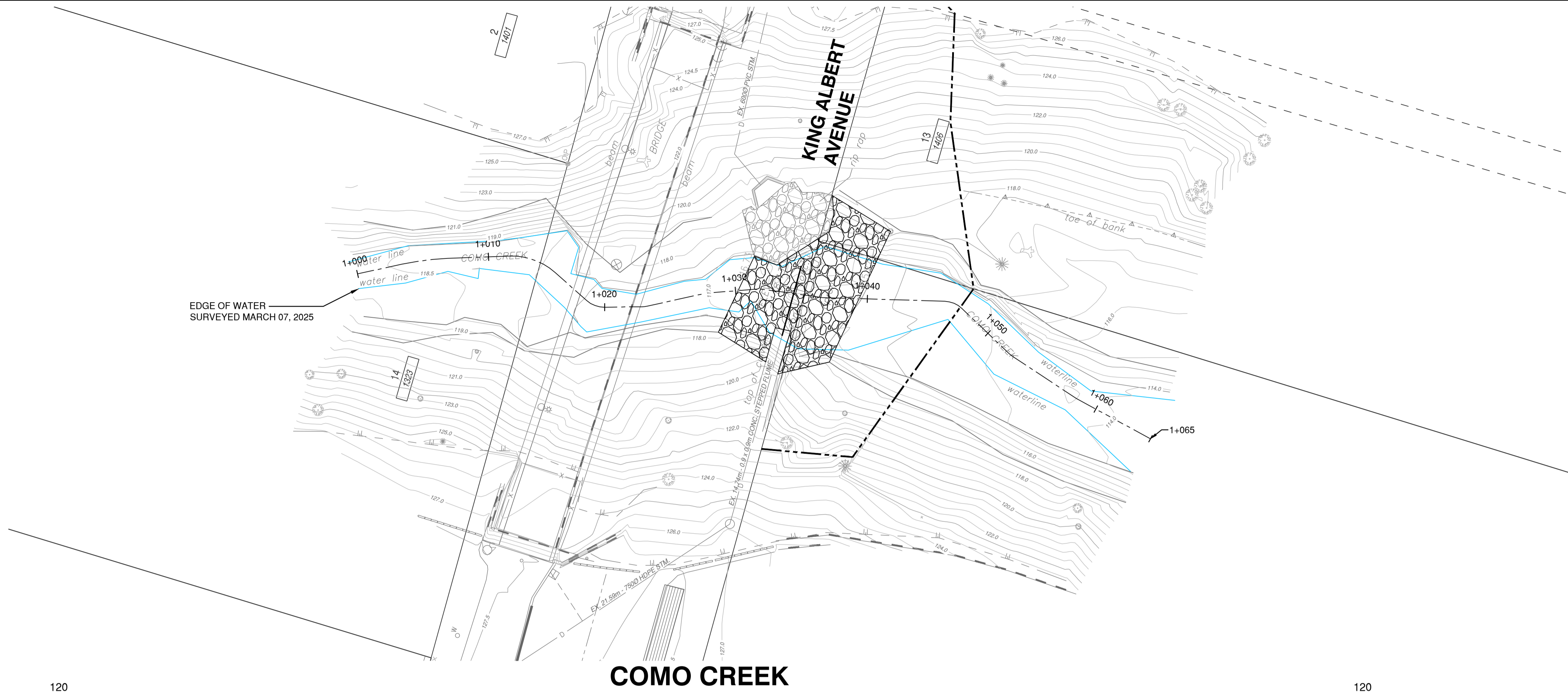
Project **COMO CREEK EROSION PROTECTION**
SITE 1 - 1406 KING ALBERT AVENUE
 Description **KEY PLAN**
 File: **25-0008-KP1B-1**
 REV. **A**

EGBC PERMIT No. 1001128

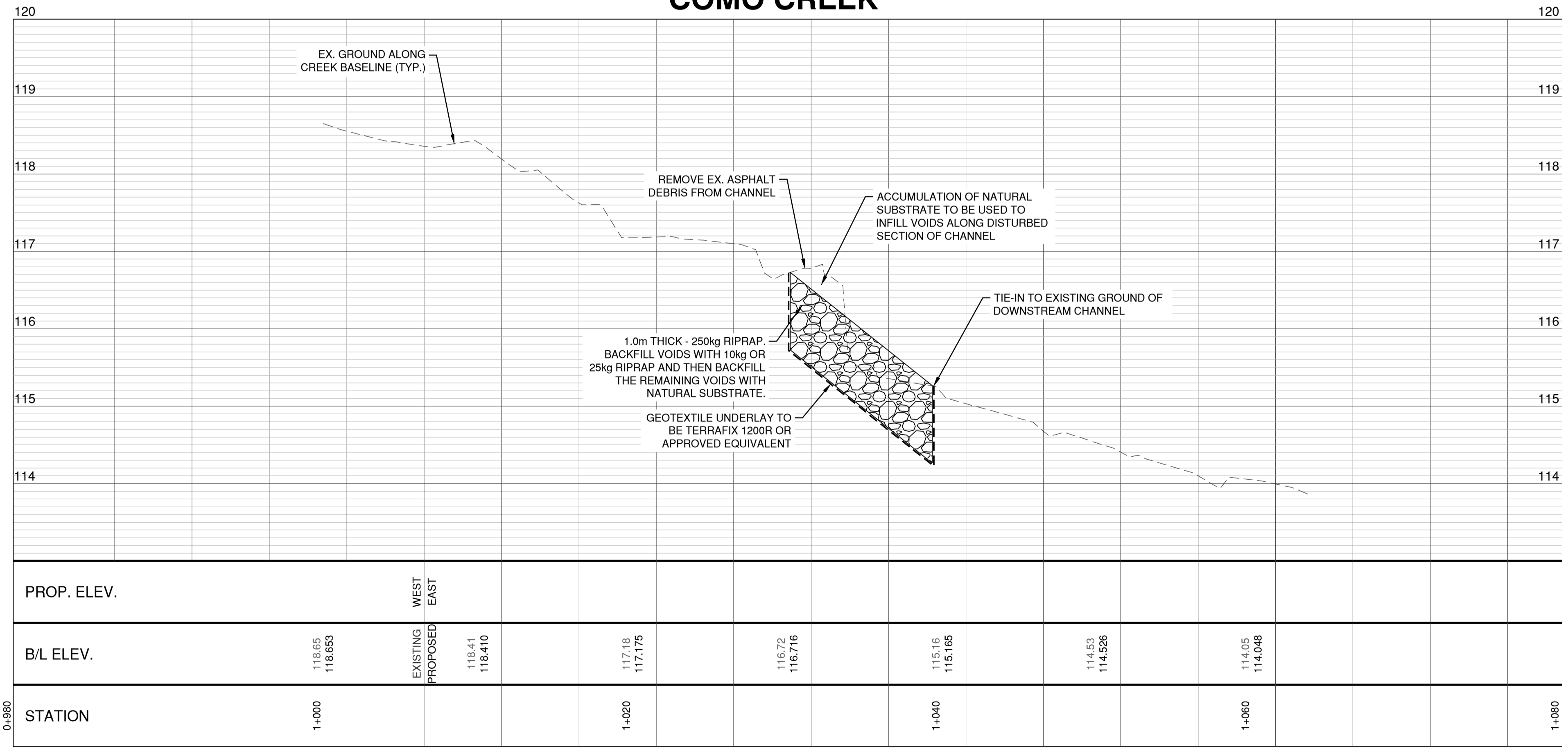
FOR ENVIRONMENTAL PERMITTING



BENCHMARK:
 G.P.S. OBSERVATION AT STN. CUTX
 LOCATED AT MIDDLE OF BRIDGE
 ELEV. = 127.806M CGVD28 (GVRD 2018)



COMO CREEK



NOT FOR CONSTRUCTION

0 1:200 8m
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EGBC PERMIT No. 1001128

FOR ENVIRONMENTAL PERMITTING

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
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Sanitary force main	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
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Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

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Scale	1:200	Scale	1:40
horiz.		vert.	
Sheet	3	of	3
Eng. Project No.	80257		

Project **COMO CREEK EROSION PROTECTION**
SITE 1 - 1406 KING ALBERT AVENUE
 Description **PLAN & PROFILE**
 File: **25-0008-P1B-1** REV. **A**

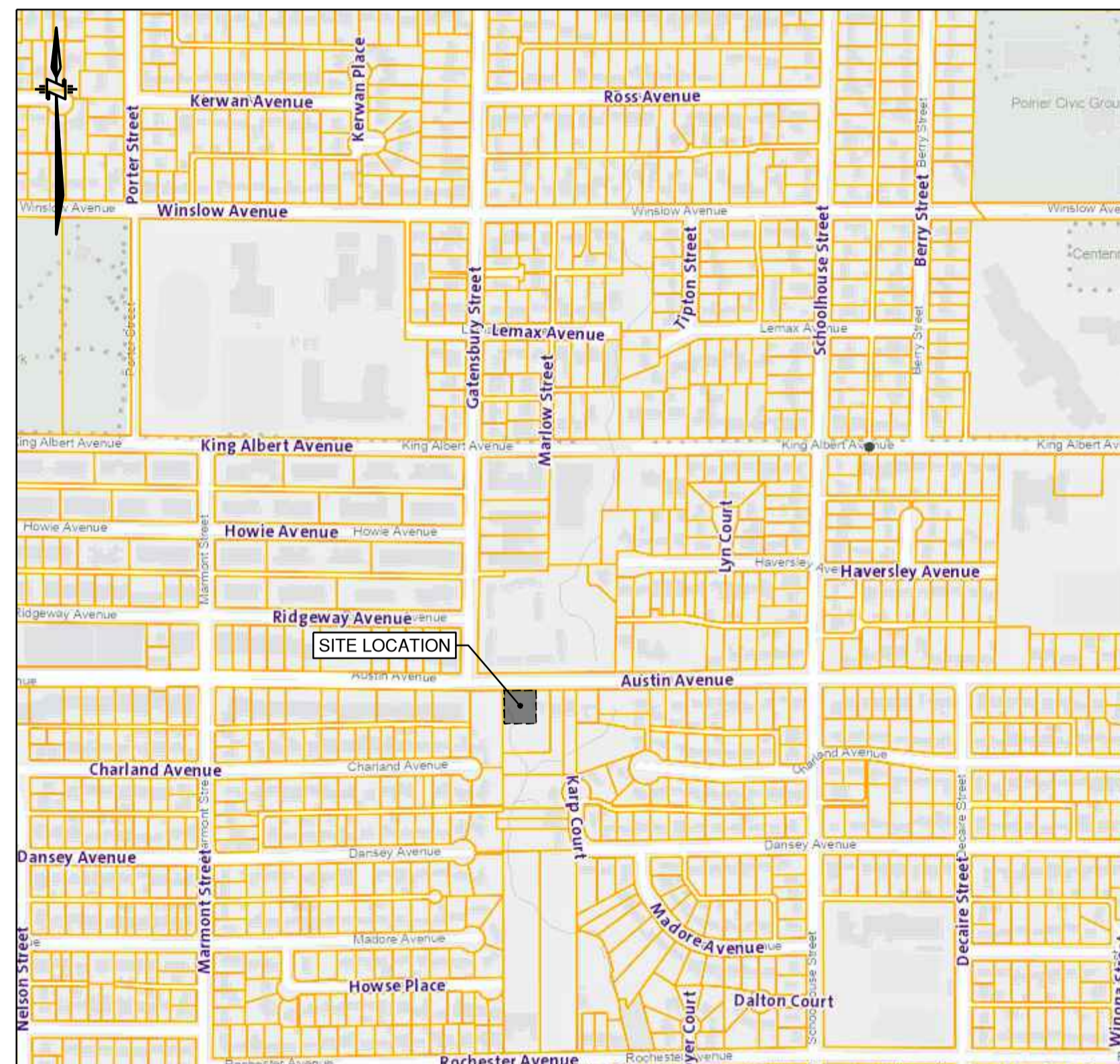
CITY OF COQUITLAM

3000 GUILDFORD WAY, COQUITLAM, BC V3B 7N2

COMO CREEK EROSION PROTECTION

SITE 2 - 1320 AUSTIN AVENUE

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN
		BUILDING
		EDGE OF PAVEMENT
		CURB & GUTTER
		TRUCK ROUTE
		SANITARY FORCE MAIN
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		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
		CATV 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



SITE MAP
Scale: N.T.S.

DRAWING INDEX		
SHEET NUMBER	DRAWING TYPE	DRAWING NUMBER
0	SITE 2 - COVER	25-0008-COVER
1	SITE 2 - GENERAL NOTES	25-0008-N2-1
2	SITE 2 - PLAN PROFILE	25-0008-P2-1



R.F. BINNIE & ASSOCIATES LTD.
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GENERAL CONSTRUCTION NOTES

- 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) - 2022 EDITION (PLATINUM BOOK), AND ANY OTHER APPLICABLE DESIGN CRITERIA, SPECIFICATIONS, STANDARD DRAWINGS, AND CONSTRUCTION SPECIFICATIONS.
- 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 CITY OF COQUITLAM ENGINEERING DEPARTMENT 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WITHIN THE ROAD ALLOWANCES AND RIGHTS-OF-WAYS.
- ALL WORK SHALL CONFORM TO THE CONSTRUCTION STANDARDS SPECIFIED IN THE SUBDIVISION AND DEVELOPMENT SERVICES BYLAW AND SHALL PASS THE INSPECTION OF THE CITY OF COQUITLAM OPERATIONS DEPARTMENT.
- 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.
- 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.
- 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.
- 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.
- WORKSAFE B.C. IS TO BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- 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). THE ENGINEER, THE CITY OF COQUITLAM AND THE UTILITY COMPANIES CANNOT BE HELD LIABLE FOR ANY DISCREPANCIES, CONFLICTS OF OMISSIONS
- 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.
- 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.
- EXISTING UNDERGROUND UTILITY TRENCHES ADJACENT TO THE PROPOSED UNDERGROUND UTILITY INSTALLATION SHALL BE ADEQUATELY PROTECTED FROM SLOUGHING IN ORDER TO PREVENT OVER-WIDTH EXCAVATION.
- 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.
- 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.
- 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.
- 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.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNERS FOR A TEMPORARY ENCRoACHMENT ON PRIVATE PROPERTY AND A REGISTERED DOCUMENT FOR A PERMANENT ENCRoACHMENT.
- 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.

- 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 ID FOR EMERGENCY VEHICLE ACCESS. A TRAFFIC MANAGEMENT PLAN WILL BE PROVIDED AS REQUIRED.

- THE CONTRACTOR IS TO NOTIFY THE CITY OF COQUITLAM ENGINEERING DEPARTMENT AND CA 48 HOURS PRIOR TO CONSTRUCTION AND VERIFY THEY HAVE THE LATEST DRAWINGS ISSUED FOR CONSTRUCTION.
- ALL EXCAVATION WITHIN EXISTING TREE DRIP LINES TO BE BY HAND OR HYDRO-VAC.
- 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.
- THE CONTRACTOR SHOULD KEEP RECORDS AND/OR PHOTOS OF EXISTING RETAINING WALLS, TREES, DRIVEWAYS AND WALKWAYS WHERE REQUIRED.
- ALL TREES DESIGNATED TO BE SAVED ARE TO BE PROTECTED BY SNOW FENCING.
- ANY EXISTING SIGNS TEMPORARILY REMOVED DURING CONSTRUCTION WILL BE REINSTATED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- A RECORD DRAWING TOPOGRAPHICAL SURVEY SHOULD BE COMPLETED AFTER CONSTRUCTION TO PICK UP ALL SURFACE FEATURE.
- BACKFILL OF PROPOSED CULVERT TO BE IMPORTED, WELL-GRADED PIT RUN GRAVEL IN ACCORDANCE WITH MMCD. BACKFILL TO BE PLACED IN LIFTS NOT EXCEEDING 300MM IN THICKNESS AND COMPACTED WITH VIBRATORY EQUIPMENT TO NOT LESS THAN 95% MPD. NATIVE EXCAVATION MAY BE SUITABLE FOR BACKFILL AS RECOMMENDED BY KONTUR GEOTECH.

ENVIRONMENTAL NOTES:

- 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.
- CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH ALL MUNICIPAL, PROVINCIAL AND FEDERAL REQUIREMENTS.
- 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.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A SPILL RESPONSE PLAN THAT PROVIDES WRITTEN SAFE WORK PROCEDURES IN THE EVENT OF A SPILL.
- 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 DAMAGE FROM INADEQUATE DRAINAGE PROTECTION. THE DISCHARGE OF ANY SUCH TEMPORARY WORKS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ENVIRONMENTAL NOTES.
- CONTRACTOR WILL BE REQUIRED TO MEET ANY CONDITIONS OUTLINED IN THE WSA AND DFO PERMIT CONDITIONS.
- CONTRACTOR WILL BE REQUIRED TO ISOLATE THE WORK AREA FROM FLOWS.
- CONTRACTOR WILL BE RESPONSIBLE FOR REVEGETATING ANY DISTURBED VEGETATION. IT IS RECOMMENDED THAT CLOSE-CUTTING OF VEGETATION BE CONDUCTING WHERE POSSIBLE TO FACILITATE REGENERATION. PLANTING OF TREES IS LIKELY.
- CONTRACTOR WILL BE REQUIRED TO SUBMIT A CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN THAT INCLUDES AN EROSION AND SEDIMENT CONTROL (ESC) PLAN AND MUST BE SUBMITTED AT LEAST 14 DAYS AHEAD OF WORKS.
- CARE IS TO BE TAKEN TO MINIMIZE DISTURBANCE TO STREAM SIDE VEGETATION

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING NO SEDIMENT OR SEDIMENT-LADEN WATER, RAW CONCRETE LEACHATE OR OTHER DELETERIOUS SUBSTANCE IS DISCHARGED FROM THE WORKS INTO ANY DITCH, WATERCOURSE, RavINE AND STORM SEWER SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR TREATING AND FOR THE METHODS USED TO TREAT SEDIMENT-LADEN WATER.
- CONTRACTOR TO MAINTAIN SILT CONTROL FACILITIES FROM CONTRACT START TO FINAL APPROVAL. CONTRACTOR IS RESPONSIBLE FOR TREATING AND FOR THE METHODS USED TO TREAT THE SITE RUNOFF TO ENSURE AT NO TIME DOES THE TOTAL SUSPENDED SOLIDS EXCEED 50 NTU. PH TO BE BETWEEN 6.5-8.5
- AVOID EARTH DISTURBING ACTIVITIES DURING SUBSTANTIAL RAIN EVENTS.
- ALL CATCH BASINS AND LAWN BASINS IN PROXIMITY TO THE SITE ARE TO BE FITTED WITH A SEDIMENT CONTROL DONUT (NILEX MEDIUM - PERMEABILITY 0.38 cms OR APPROVED EQUIVALENT) TO ENSURE STORM WATER QUALITY. CONTROL DEVICES TO BE MAINTAINED IN A FULLY FUNCTIONAL STATE AT ALL TIMES UNTIL FINAL COMPLETION OF THE WORKS.
- CONTRACTOR IS RESPONSIBLE TO INSPECT ALL SILT CONTROL FACILITIES AND TO ENSURE MAINTENANCE OF ALL FACILITIES TO COMPLETION OF PROJECT.
- SILT FENCE/FILTER FABRIC TO BE AMOCO 2130 AND AMOCO 4535 (C-10) RESPECTIVELY OR APPROVED EQUIVALENT.
- ALL DISTURBED SLOPES TO BE PROTECTED AND RESTORED WITH VERDYOL BIOTIC SOIL AND HACKIFIED WOOD FIBER MULCH
- ALL TREES TO BE RETAINED UNLESS SPECIFICALLY NOTED FOR REMOVAL ON DRAWING. IF REMOVAL IS REQUIRED FOR CONSTRUCTION, CONTRACTOR TO REVIEW AND CONFIRM WITH ENVIRONMENTAL OPERATIONS PRIOR TO PROCEEDING.
- VEGETATION TO BE REPLANTED AS PER ENVIRONMENTAL SPECIFICATIONS
- CARE IS TO BE TAKEN TO MINIMIZE DISTURBANCE TO STREAM SIDE VEGETATION.
- ALL TREES TO BE RETAINED, UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE DRAWING. IF REMOVAL IS REQUIRED FOR CONSTRUCTION, CONTRACTOR TO REVIEW AND CONFIRM WITH CITY INSPECTOR PRIOR TO PROCEEDING.

GEOTECHNICAL NOTES

- A LAYER OF NON-WOVEN GEOTEXTILE (TERRAFIX 1200R OR APPROVED EQUIVALENT) IS TO BE PLACED AGAINST THE NATURAL SOILS, WHERE BACKFILLING USING OPEN GRADED SOILS SUCH AS CLEAR CRUSHED GRAVEL OR RIPRAP IS PROPOSED.
- THE SLOPE ANGLE OF RIPRAP IS TO BE NO STEEPER THAN 1.5H : 1V (HORIZONTAL: VERTICAL)
- THE CONSTRUCTION OF THE PROPOSED HEADWALL AND STORM PIPE SHOULD BE CONDUCTED SUCH THAT THE NATURAL SEEPAGE OF THE SURFACE / GROUNDWATER IS NOT DISTURBED / BLOCKED
- CLEAR CRUSH GRAVEL SHALL NOT BE USED FOR PIPE BEDDING.
- IF SOFT SUBGRADE IS UNDER THE PROPOSED CULVERT IS ENCOUNTERED KONTUR SHALL BE CONTACTED TO DETERMINE THE REMEDIATION TO BE FOLLOWED BY THE CONTRACTOR
- ANY DEBRIS WITHIN THE FOOTPRINT OF THE EXISTING OUTFALL TO BE REMOVED
- CONTRACTOR TO NOTIFY KONTUR PRIOR TO INSTALLATION OF PERFORATED PIPES AROUND THE PROPOSED HEADWALL TO CONFIRM INSTALLATION REQUIREMENTS.
- CONTRACTOR TO NOTIFY KONTUR FOR INSPECTION OF SUBGRADE AND SEEPAGE CONDITIONS
- ENGINEERED FILL PLACED BEHIND THE HEADWALL AND BEDDING SHOULD BE PLACED IN LIFTS AND COMPACTED TO AT LEAST 95% OF THE MATERIALS MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- PRIOR TO THE REMOVAL OF THE EXISTING SAND BAGS ON THE EASTERN SLOPE. KONTUR IS TO BE NOTIFIED TO INSPECT THE STABILITY OF THE SLOPE. IF THE SAND BAGS ARE TO BE RETAINED, THE DEBRIS BENEATH THE BAGS SHALL BE REMOVED AND CLEANED, AND THE VOID AREAS WITHIN AND UNDERNEATH THE UNDERMINED FILL BAGS ARE TO BE FILLED AND THE FILL BAGS BURIED WITH BACKFILL AS PART OF THE INSTALLATION OF THE PROPOSED HEADWALL. THE CONTRACTOR SHOULD ASSESS THE SITE CONDITIONS AND CONFIRM THE BACKFILLING MEANS AND MATERIAL THAT COULD BE USED FOR FILLING THE VOIDS.
- HEADWALL TO BE INSTALLED TO TOLERATE THE LATERAL EARTH PRESSURES FROM THE IMMEDIATE SURROUNDING SOILS
- REFER TO KONTUR'S GEOTECHNICAL LETTER (REF. K-251699-02) FOR A FULL LIST OF GEOTECHNICAL RECOMMENDATIONS.

RIPRAP 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. TABLE D PROVIDES FILTER GRADATION
- THE FOLLOWING HOLD POINTS WILL APPLY FOR CLASS 100 kg RIPRAP AND LARGER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - A) GRADATION QC 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
- ALL VOIDS TO BE INFILLED WITH A SMALLER CLASS 10kg OR 25kg RIPRAP AND THEN BACKFILLED WITH EXCAVATED NATURAL SUBSTRATE .
- 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 HOLLOWES FILLED WITH SURROUNDING NATIVE MATERIALS WELL TAMPED-IN TO THE APPROVAL OF THE ENGINEER.
- RIP RAP TO BE CLEAN ANGULAR HARD FRACTURED STONE (GRADE SPECIFIED IN PLAN VIEW).
- RIRAP 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

PROPERTY	ASTM TEST DESIGNATION	ALLOWABLE VALUE
SPECIFIC GRAVITY	D6473	≥2.50
ABSORPTION	D6473	≤2%
SOUNDNESS BY USE OF MAGNESIUM SULPHATE	D5240	≤10% (FOLLOWING 5 CYCLES)
MICRO-DEVAL ABRASION LOSS FACTOR	D6928	≤20%

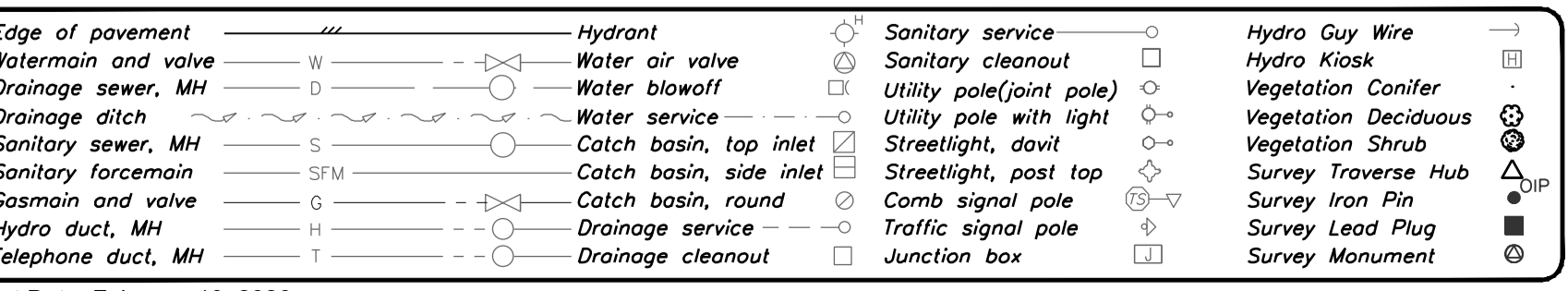
CLASS OF RIPRAP (kg)	ROCK MASS (kg)				MAX SIZE
	PERCENTAGE SMALLER THAN GIVEN ROCK MASS				
	15%	50%	85%		
250	25	250	750	1250	

CLASS OF RIPRAP (kg)	INTERMEDIATE DIMENSION (mm)				MAX SIZE
	PERCENTAGE SMALLER THAN INTERMEDIATE DIMENSION				
	15%	50%	85%		
250	270	575	830	1000	

NOTE: TABLE C SHOWS THE INTERMEDIATE DIMENSION AS DEFINED IN THE WOLMAN METHOD AS PER FHWA FLH T 521 CORRESPONDING TO ROCK MASS SHOWN IN TABLE B, BASED ON SPHERICAL VOLUME. USING SPECIFIC GRAVITY = 2.50. REGARDLESS OF ACTUAL SOURCE SPECIFIC GRAVITY, THE DIMENSIONS INDICATED REMAIN APPLICABLE (SUBJECT TO LIMITS SPECIFIED IN TABLE A)

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NOT TO SCALE
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No.	Date	By	Revisions
B	2026-02-10	SV	ISSUED FOR TENDER
A	2025-12-12	HL	FOR ENVIRONMENTAL PERMITTING

Design by	Date
JC	2025-12-12
Drawn by	Date
TJC	2025-12-12
Checked by	Date
JT	2025-12-12
Approved by	Date
JT	2025-12-12

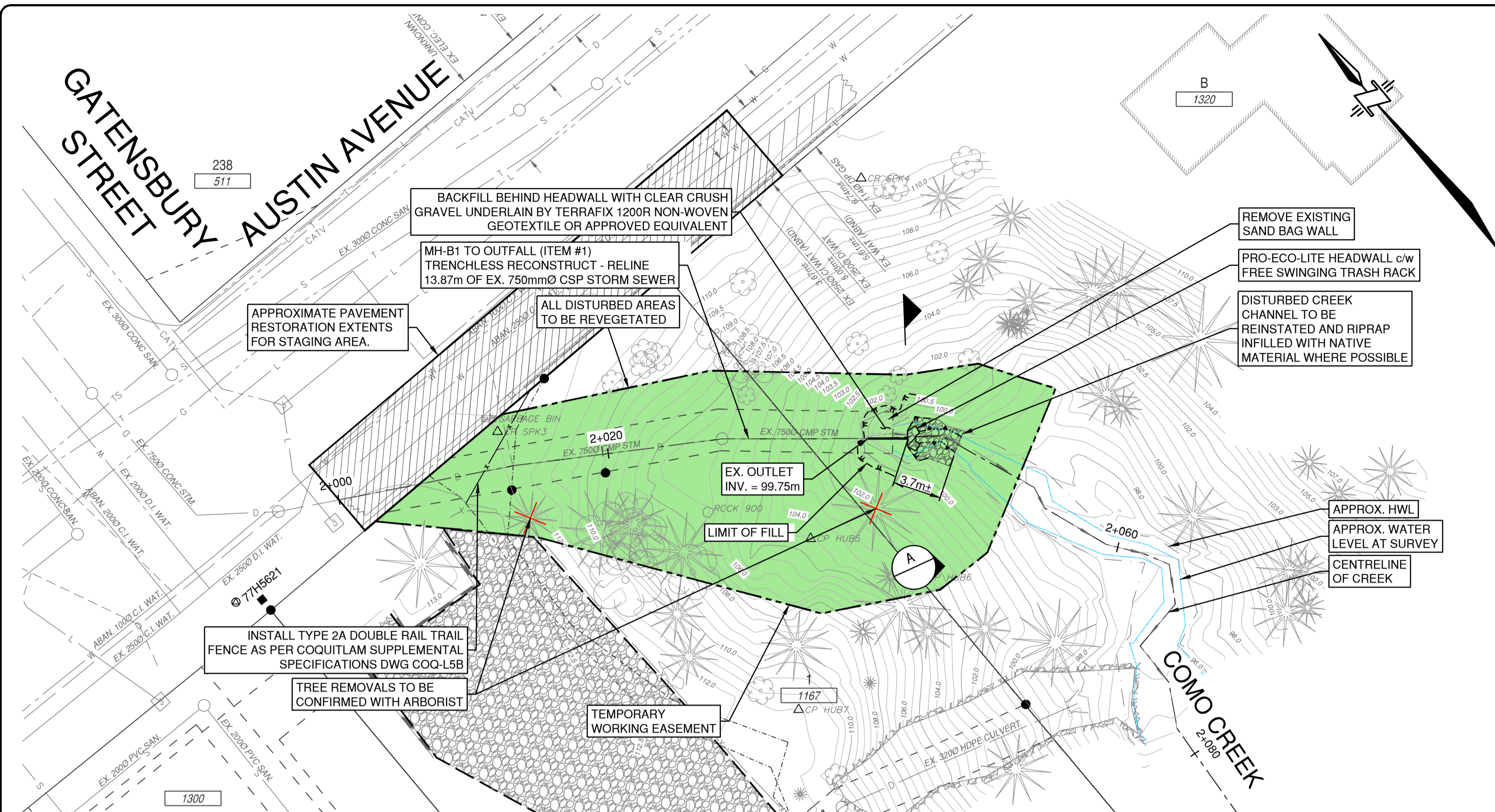


Scale horiz.	N.T.S.	Scale vert.	N.T.S.
Sheet	1	of	2
Eng. Project No.	80257		

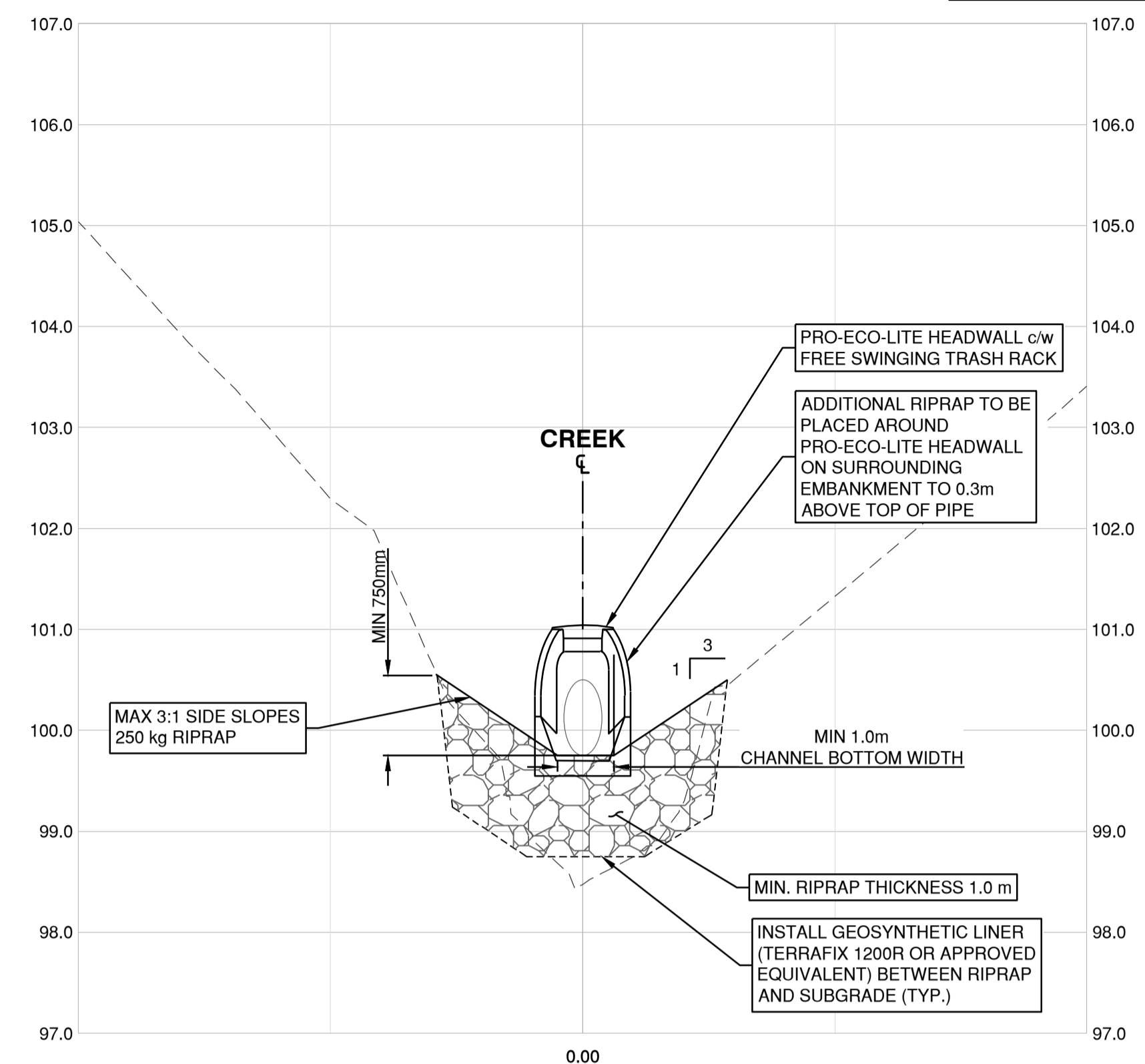
Project **COMO CREEK EROSION PROTECTION SITE 2 - 1320 AUSTIN AVENUE**

Description **GENERAL NOTES**

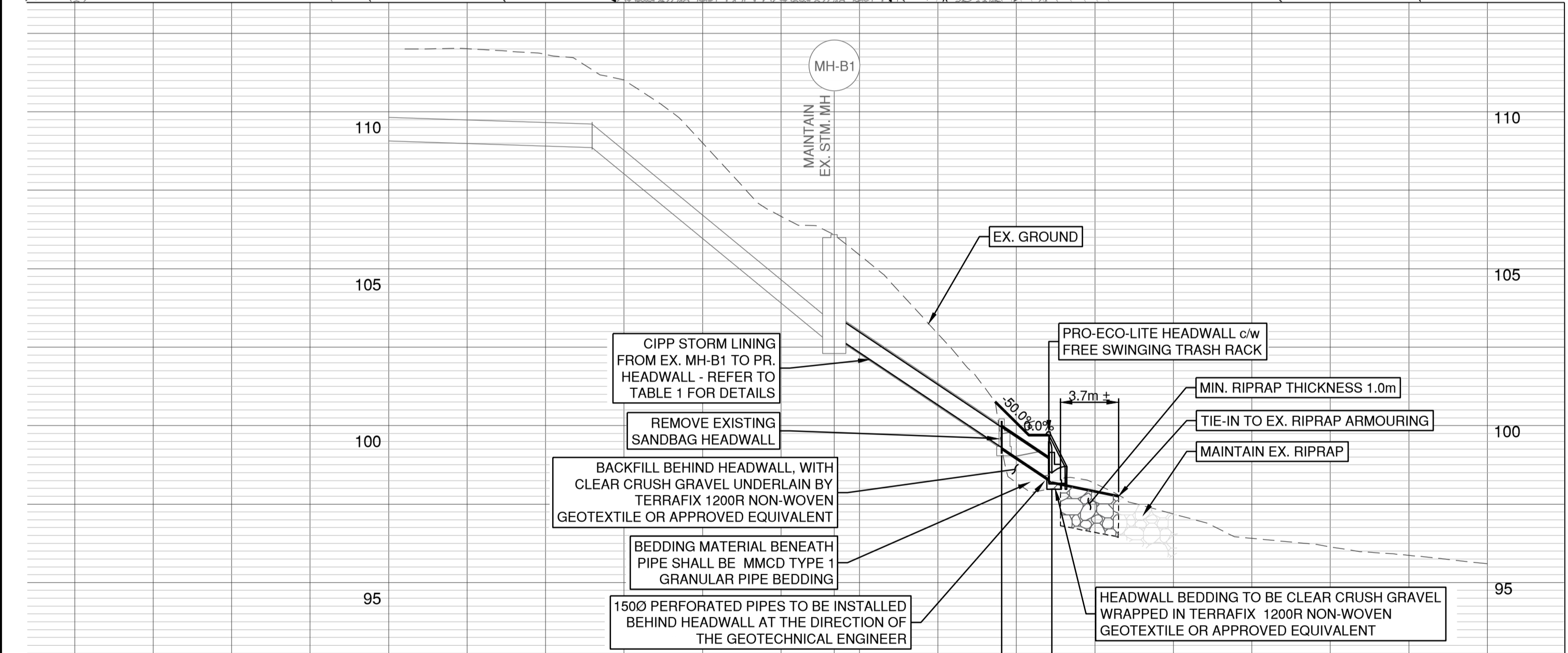
File: **25-0008-N2-1** REV. **B**



BENCHMARK:
 G.P.S. OBSERVATION AT CP CN1
 LOCATED AT WEST PROPERTY LINE OF #1199 AUSTIN AVE
 ELEV. = 115.535M CGVD28 (GVRD 2018)



CREEK SECTION
 Scale: 1:100H 1:50V



LOCATION	ITEM #1
1300 AUSTIN AVENUE EAST OF GATENBURY STREET NO CCTV INSPECTION	
MANHOLE NUMBERS	MH-B1 TO OUTFALL
PIPE MATERIAL	750mmØ CONC
PIPE LENGTH BETWEEN MANHOLES	13.874 METRES
UTILITY	STORM SEWER
MANHOLE NO. (RMINVERT ELEVATIONS)	APPROXIMATE DEPTHS
MH-B1 (106.59m/103.32m)	3.274 METRES
OUTFALL (101.27m/99.75m)	1.524 METRES
NUMBER OF SERVICES	NONE (ASSUMED)
UPGRADING (BEFORE REHAB)	1. COMPLETE CCTV INSPECTION AND SUBMIT TO CITY ENGINEER FOR CONFIRMATION OF REHABILITATION STRATEGY
	RELINE

- TEMPORARY EXCAVATION NOTES:**
- CONTRACTOR TO MINIMIZE EXCAVATION AND DISTURBANCE ALONG EXISTING SLOPES. EXCAVATION SHOULD BE CARRIED OUT IN STAGES. THE SLOPE CUTS AND/OR SHORING METHODS SHOULD BE REVIEWED DURING CONSTRUCTION BY A GEOTECHNICAL ENGINEER, AND MAY BE REVISED, IF REQUIRED, DEPENDING ON THE SUBSURFACE SOIL AND GROUNDWATER CONDITIONS AND PRESENCE OF NEARBY STRUCTURES, INFRASTRUCTURE, OR NEARBY GEOTECHNICAL FEATURES OF SIGNIFICANCE. A GEOTECHNICAL ENGINEER SHOULD PERIODICALLY REVIEW THE SOILS ENCOUNTERED DURING EXCAVATION AND MAKE RECOMMENDATIONS AS WARRANTED.
 - TEMPORARY EXCAVATED SLOPES MAY BE INCLINED AT 1H:1V WITHIN FILL MATERIALS (UP TO 3m IN HEIGHT) TO 3H:4V WITHIN DENSE/HARD SOILS. WHERE SEEPAGE OR ZONES OF LOOSER SOILS THAT SLOUGH ARE ENCOUNTERED, TEMPORARY EXCAVATED SLOPES MAY NEED TO BE FLATTENED TO AN INCLINATION OF 2H:1V. THE AFOREMENTIONED PROPOSED SLOPE GRADIENTS SHOULD BE REVIEWED DURING CONSTRUCTION BY A GEOTECHNICAL ENGINEER, AND REVISED, IF REQUIRED, DEPENDING ON THE SUBSURFACE SOIL AND GROUNDWATER CONDITIONS AND PRESENCE OF NEARBY STRUCTURES, INFRASTRUCTURE, OR NEARBY GEOTECHNICAL FEATURES OF SIGNIFICANCE. GEOTECHNICAL ENGINEER TO REVIEW SLOPES DURING CONSTRUCTION.
 - TEMPORARY EXCAVATION MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHOULD PROVIDE AN EXCAVATION PLAN THAT IS PREPARED BY A GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - WITH REGARDS TO THE SLOPE TO THE EAST OF THE EXISTING OUTFALL, REMOVAL OF THE SAND BAG WALLS SHOULD BE CONSIDERED AS PART OF THE TEMPORARY EXCAVATION/ SHORING PLAN.

CREEK C/L ELEV.	112.334	109.50	105.938	98.68	97.684	96.64
PR STM						
EX STM	EX. 7500 STM.	EX. 7500 STM.	103.007 NW 103.318 SE	99.750 NW 99.750 SE	PROP. 3.20m-750Ø CSP STM. EXTENSION @ 33.44%	
STATION		2+020	2+028.389	2+038.059 2+040	2+042.257	2+060

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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 (point pole)	Vegetation Canister
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, dim	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
B	2026-02-10	SV	ISSUED FOR TENDER
A	2025-12-12	HL	FOR ENVIRONMENTAL PERMITTING
3	2025-09-02	JC	PRELIMINARY DESIGN REPORT - R1
2	2025-05-16	JC	PRELIMINARY DESIGN REPORT
1	2025-05-02	TJC	PRELIMINARY DESIGN

Design by	Date
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Drawn by	Date
TJC	2025-12-12

Checked by	Date
JT	2025-12-12

Approved by	Date
JT	2025-12-12

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Scale
 horiz. 1:250
 Sheet 2 of 2
 Eng. Project No. 80257

Project
**COMO CREEK EROSION PROTECTION
 SITE 2 - 1320 AUSTIN AVENUE**
 Description
PLAN / PROFILE
 File: 25-0008-P2-1
 REV. B

CITY OF COQUITLAM

3000 GUILDFORD WAY, COQUITLAM, BC V3B 7N2

BOOTH CREEK EROSION PROTECTION

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



DRAWING INDEX		
SHEET NUMBER	DRAWING TITLE	DRAWING NUMBER
0	COVER	25-0008-C
1	GENERAL NOTES AND LEGEND	25-0008-N3-1
2	PLAN PROFILE	25-0008-P3-1
3	SECTIONS - XS3-1	25-0008-XS3-1
4	SECTIONS - XS3-2	25-0008-XS3-2
5	SECTIONS - XS3-3	25-0008-XS3-3

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R.F. BINNIE & ASSOCIATES LTD.
300 - 4940 Canada Way,
Burnaby, BC V5G 4K6
TEL 604 420 1721
BINNIE.com



GENERAL CONSTRUCTION NOTES

- 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) - 2022 EDITION (PLATINUM BOOK), AND ANY OTHER APPLICABLE DESIGN CRITERIA, SPECIFICATIONS, STANDARD DRAWINGS, AND CONSTRUCTION SPECIFICATIONS.
- 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 CITY OF COQUITLAM ENGINEERING DEPARTMENT 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WITHIN THE ROAD ALLOWANCES AND RIGHTS-OF-WAYS.
- ALL WORK SHALL CONFORM TO THE CONSTRUCTION STANDARDS SPECIFIED IN THE SUBDIVISION AND DEVELOPMENT SERVICES BYLAW AND SHALL PASS THE INSPECTION OF THE CITY OF COQUITLAM OPERATIONS DEPARTMENT.
- 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.
- 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.
- 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.
- 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.
- WORKSAFE B.C. IS TO BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- 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). THE ENGINEER, THE CITY OF COQUITLAM AND THE UTILITY COMPANIES CANNOT BE HELD LIABLE FOR ANY DISCREPANCIES, CONFLICTS OF OMISSIONS
- 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.
- 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.
- EXISTING UNDERGROUND UTILITY TRENCHES ADJACENT TO THE PROPOSED UNDERGROUND UTILITY INSTALLATION SHALL BE ADEQUATELY PROTECTED FROM SLOUGHING IN ORDER TO PREVENT OVER-WIDTH EXCAVATION.
- 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.
- 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.
- 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.
- 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.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNERS FOR A TEMPORARY ENCROACHMENT ON PRIVATE PROPERTY AND A REGISTERED DOCUMENT FOR A PERMANENT ENCROACHMENT.
- 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.

- 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.

- THE CONTRACTOR IS TO NOTIFY THE CITY OF COQUITLAM ENGINEERING DEPARTMENT AND CA 48 HOURS PRIOR TO CONSTRUCTION AND VERIFY THEY HAVE THE LATEST DRAWINGS ISSUED FOR CONSTRUCTION
- ALL EXCAVATION WITHIN EXISTING TREE DRIP LINES TO BE BY HAND OR HYDRO-VAC.
- 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.
- THE CONTRACTOR SHOULD KEEP RECORDS AND/OR PHOTOS OF EXISTING RETAINING WALLS, TREES, DRIVEWAYS AND WALKWAYS WHERE REQUIRED.
- ALL TREES DESIGNATED TO BE SAVED ARE TO BE PROTECTED BY SNOW FENCING.
- ANY EXISTING SIGNS TEMPORARILY REMOVED DURING CONSTRUCTION WILL BE REINSTATED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- A RECORD DRAWING TOPOGRAPHICAL SURVEY SHOULD BE COMPLETED AFTER CONSTRUCTION TO PICK UP ALL SURFACE FEATURE.

ENVIRONMENTAL NOTES:

- 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.
- CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH ALL MUNICIPAL, PROVINCIAL AND FEDERAL REQUIREMENTS.
- 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.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A SPILL RESPONSE PLAN THAT PROVIDES WRITTEN SAFE WORK PROCEDURES IN THE EVENT OF A SPILL.
- 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 DAMAGE FROM INADEQUATE DRAINAGE PROTECTION. THE DISCHARGE OF ANY SUCH TEMPORARY WORKS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ENVIRONMENTAL NOTES.
- CONTRACTOR RESPONSIBLE FOR MEETING ANY CONDITIONS OUTLINED IN THE WSA CHANGE USE APPROVAL AND DFO PERMIT CONDITIONS.
- CONTRACTOR REQUIRED TO ISOLATE THE WORK AREA FROM FLOWS DURING CONSTRUCTION.
- CONTRACTOR TO SUBMIT A CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN THAT INCLUDES AN EROSION AND SEDIMENT CONTROL (ESC) PLAN THAT MUST BE SUBMITTED AT LEAST 14 DAYS AHEAD OF COMMENCEMENT OF WORKS.
- CONTRACTOR TO REVEGETATE ANY DISTURBED VEGETATION AREAS. IT IS RECOMMENDED THAT CLOSE-CUTTING OF VEGETATION BE CONDUCTING WHERE POSSIBLE TO FACILITATE REGENERATION. PLANTING OF TREES IS LIKELY REQUIRED IN ACCORDANCE WITH CITY OF COQUITLAM REQUIREMENTS.
- CARE IS TO BE TAKEN TO MINIMIZE DISTURBANCE TO STREAM SIDE VEGETATION

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING NO SEDIMENT OR SEDIMENT-LADEN WATER, RAW CONCRETE LEACHATE OR OTHER DELETERIOUS SUBSTANCE IS DISCHARGED FROM THE WORKS INTO ANY DITCH, WATERCOURSE, RAVINE AND STORM SEWER SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR TREATING AND FOR THE METHODS USED TO TREAT SEDIMENT-LADEN WATER.
- CONTRACTOR TO MAINTAIN SILT CONTROL FACILITIES FROM CONTRACT START TO FINAL APPROVAL. CONTRACTOR IS RESPONSIBLE FOR TREATING AND FOR THE METHODS USED TO TREAT THE SITE RUNOFF TO ENSURE AT NO TIME DOES THE TOTAL SUSPENDED SOLIDS EXCEED 50 NTU. PH TO BE BETWEEN 6.5-8.5
- AVOID EARTH DISTURBING ACTIVITIES DURING SUBSTANTIAL RAIN EVENTS.
- ALL CATCH BASINS AND LAWN BASINS IN PROXIMITY TO THE SITE ARE TO BE FITTED WITH A SEDIMENT CONTROL DONUT (NILEX MEDIUM - PERMEABILITY 0.38 cms OR APPROVED EQUIVALENT) TO ENSURE STORM WATER QUALITY. CONTROL DEVICES TO BE MAINTAINED IN A FULLY FUNCTIONAL STATE AT ALL TIMES UNTIL FINAL COMPLETION OF THE WORKS.
- CONTRACTOR IS RESPONSIBLE TO INSPECT ALL SILT CONTROL FACILITIES AND TO ENSURE MAINTENANCE OF ALL FACILITIES TO COMPLETION OF PROJECT.
- SILT FENCE/FILTER FABRIC TO BE AMOCO 2130 AND AMOCO 4535 (C-10) RESPECTIVELY OR APPROVED EQUIVALENT.
- ALL DISTURBED SLOPES TO BE PROTECTED AND RESTORED WITH VERDYOL BIOTIC SOIL AND HYDROSEED WITH PREMIER 100% NATIVE COASTAL RIPARIAN GRASS MIX WITH RAINIER FIBER PLUS TACKIFIER WOOD FIBER MULCH
- ALL TREES TO BE RETAINED UNLESS SPECIFICALLY NOTED FOR REMOVAL ON DRAWING. IF REMOVAL IS REQUIRED FOR CONSTRUCTION, CONTRACTOR TO REVIEW AND CONFIRM WITH ENVIRONMENTAL OPERATIONS PRIOR TO PROCEEDING.
- VEGETATION TO BE REPLANTED AS PER ENVIRONMENTAL SPECIFICATIONS

GEOTECHNICAL NOTES

- REFER TO KONTOUR PROJECT NO. K-251317-00 DRAWING FIGURE 1 FOR PLAN, CROSS SECTION AND PROPOSED EROSION PROTECTION DETAIL.
- THE INTENT OF THE PROPOSED RIPRAP SYSTEM IS TO REINSTATE THE ERODED SLOPE AREA AND NOT SLOPE STABILIZATION OR ASSESSING THE STABILITY OF THE EXISTING SLOPES.
- A LAYER OF NON-WOVEN GEOTEXTILE IS TO BE PLACED AT THE BASE OF THE CREEK, EXTENDING ON THE EXISTING NATURAL RAVINE SLOPE TO THE MAXIMUM HEIGHT OF THE RIPRAP.

RIPRAP 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. TABLE D PROVIDES FILTER GRADATION
- THE FOLLOWING HOLD POINTS WILL APPLY FOR CLASS 100 kg RIPRAP AND LARGER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - A) GRADATION QC 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 HOLLOW 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)
- ROCKS TO CONSIST OF ANGULAR, STRONG, AND DURABLE ROCK WITH AT LEAST 1 DIMENSION GREATER THAN 0.6m EXCEPT BOTTOM ROW TO HAVE AT LEAST 1 DIMENSION GREATER THAN 0.9m
- THE RIPRAP ON THE TWO ENDS SHOULD HAVE GENTLE CURVES TOWARDS THE NATURAL SLOPE.
- RIP RAP TO BE CLEAN ANGULAR HARD FRACTURED STONE (GRADATION AS SPECIFIED IN RIPRAP NOTES). COBBLES TO BE CLEAN ROUNDED HARD STONE 100MM MINUS

TABLE A: TEST FOR RIPRAP MATERIAL PROPERTIES

PROPERTY	ASTM TEST DESIGNATION	ALLOWABLE VALUE
SPECIFIC GRAVITY	D6473	≥2.50
ABSORPTION	D6473	≤2%
SOUNDNESS BY USE OF MAGNESIUM SULPHATE	D5240	≤10% (FOLLOWING 5 CYCLES)
MICRO-DEVAL ABRASION LOSS FACTOR	D6928	≤20%

TABLE B: RIP RAP GRADATION REQUIREMENTS BY CLASS

CLASS OF RIPRAP (kg)	ROCK MASS (kg)			
	PERCENTAGE SMALLER THAN GIVEN ROCK MASS			MAX SIZE
	15%	50%	85%	
10	1	10	30	50
50	2.5	25	75	125
250	25	250	750	1 250

TABLE C: RIP RAP GRADATION AND INTERMEDIATE DIMENSION OF ROCK BY CLASS

CLASS OF RIPRAP (kg)	INTERMEDIATE DIMENSION (mm)			
	PERCENTAGE SMALLER THAN INTERMEDIATE DIMENSION			MAX SIZE
	15%	50%	85%	
10	90	200	285	350
25	125	270	385	450
250	270	575	830	1 000

NOTE: TABLE C SHOWS THE INTERMEDIATE DIMENSION AS DEFINED IN THE WOLMAN METHOD AS PER FHWA FLH T 521 CORRESPONDING TO ROCK MASS SHOWN IN TABLE B. BASED ON SPHERICAL VOLUME, USING SPECIFIC GRAVITY = 2.50. REGARDLESS OF ACTUAL SOURCE SPECIFIC GRAVITY, THE DIMENSIONS INDICATED REMAIN APPLICABLE (SUBJECT TO LIMITS SPECIFIED IN TABLE A)

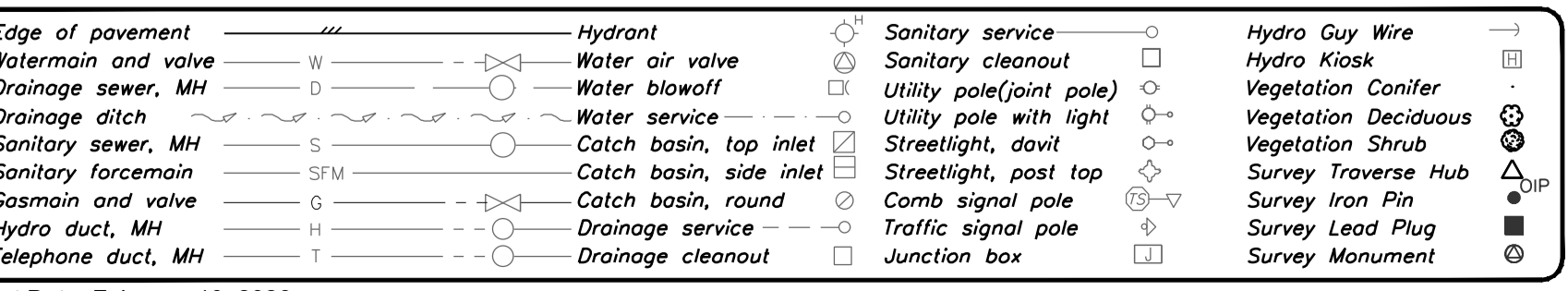
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No.	Date	By	Revisions
3	2026-02-10	SV	ISSUED FOR TENDER
2	2026-02-02	SL	UPDATES FOR ENVIRONMENTAL PERMITTING
1	2025-12-12	SL	ISSUED FOR ENVIRONMENTAL PERMITTING

Design by	Date
JC	2025-11-17
Drawn by	Date
TJC	2025-11-17
Checked by	Date
JT	2025-11-17
Approved by	Date
JT	2025-11-17



Scale	N.T.S.	Scale	N.T.S.
horiz.	1	vert.	5
Sheet	1	of	5
Eng. Project No.	80257		

Project **BOOTH CREEK EROSION PROTECTION**

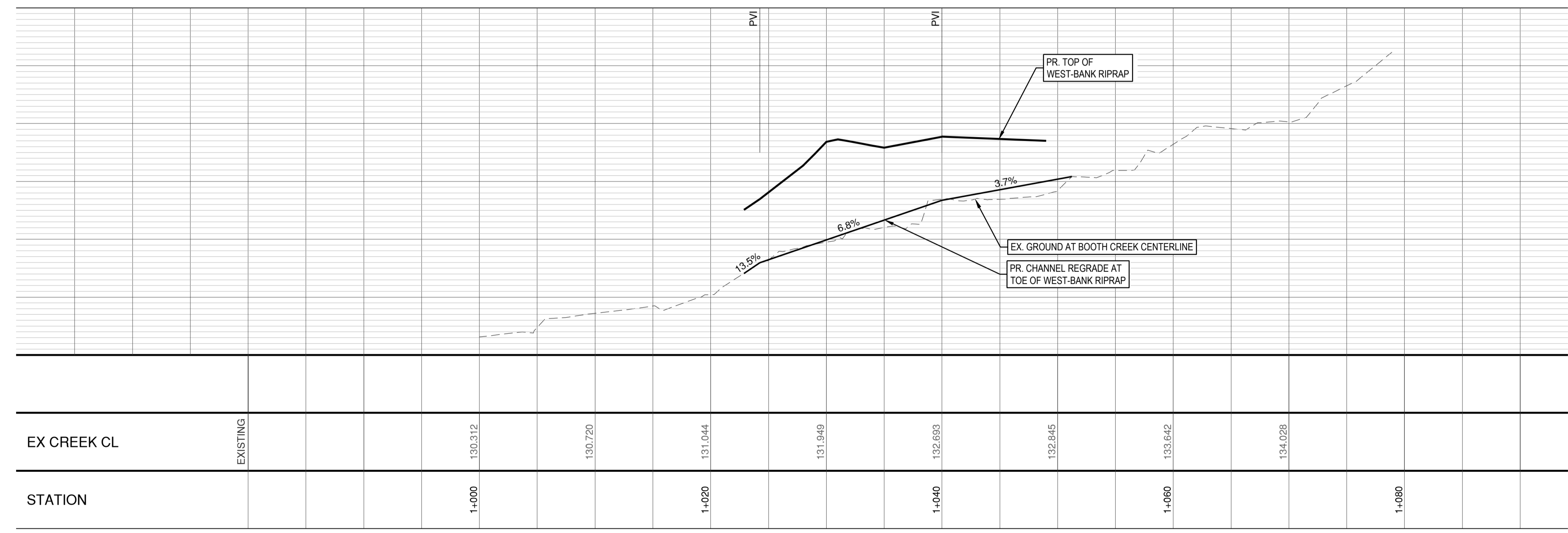
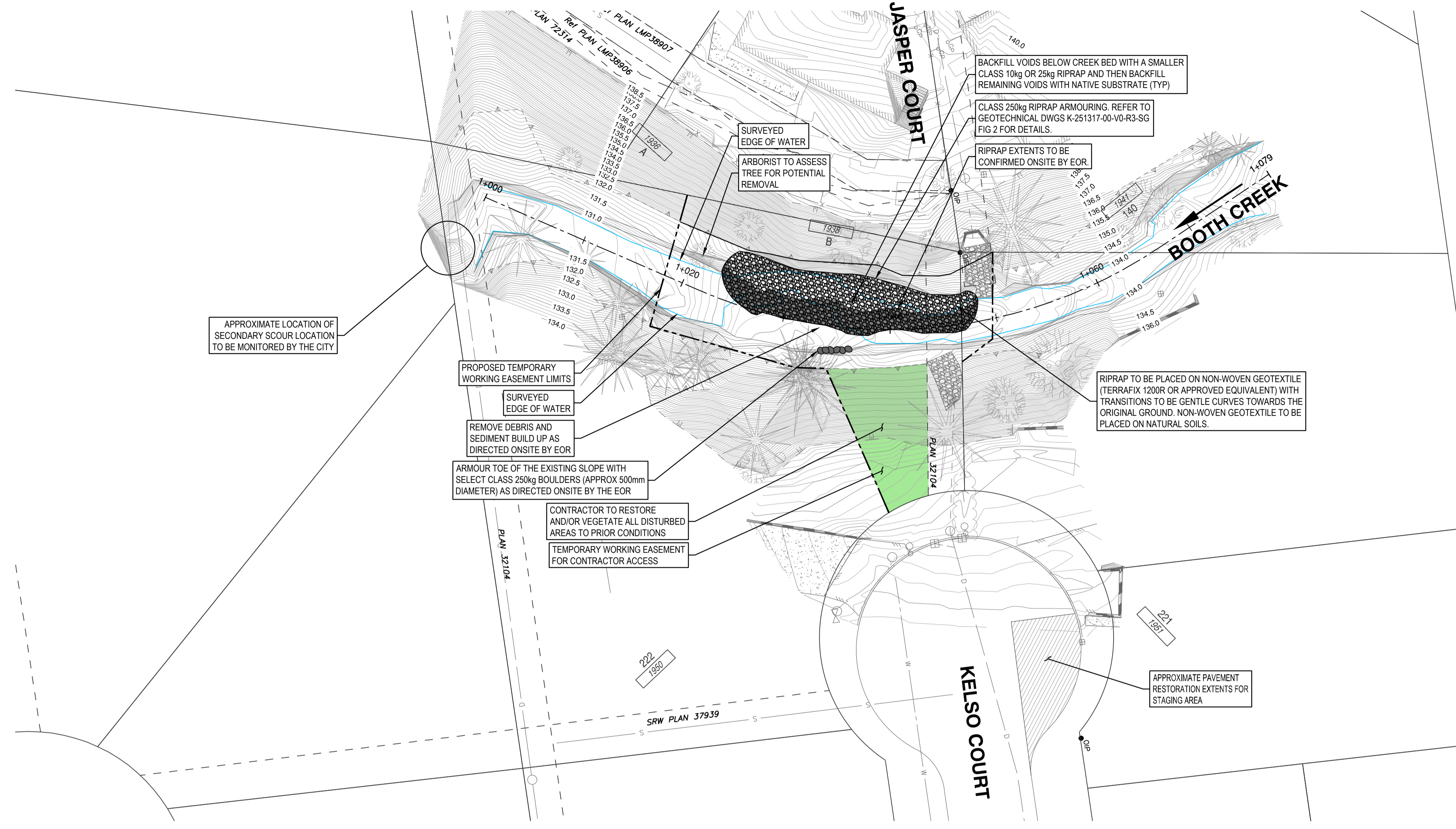
Description **GENERAL NOTES AND LEGEND**

File: **25-0008-N3-1**

REV. **3**



BENCHMARK:
 G.P.S. OBSERVATION AT STN. CUTX
 LOCATED AT MIDDLE OF BRIDGE
 ELEV. = 127.806M CGVD28 (GVRD 2018)



EX CREEK CL	STATION	ELEVATION (m)
EXISTING	1+000	130.312
		130.720
	1+020	131.044
		131.949
	1+040	132.693
		132.845
	1+060	133.642
		134.028
	1+080	

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0 H 1:250 10m
 0 V 1:50 2m
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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, davit	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
3	2026-02-10	SV	ISSUED FOR TENDER
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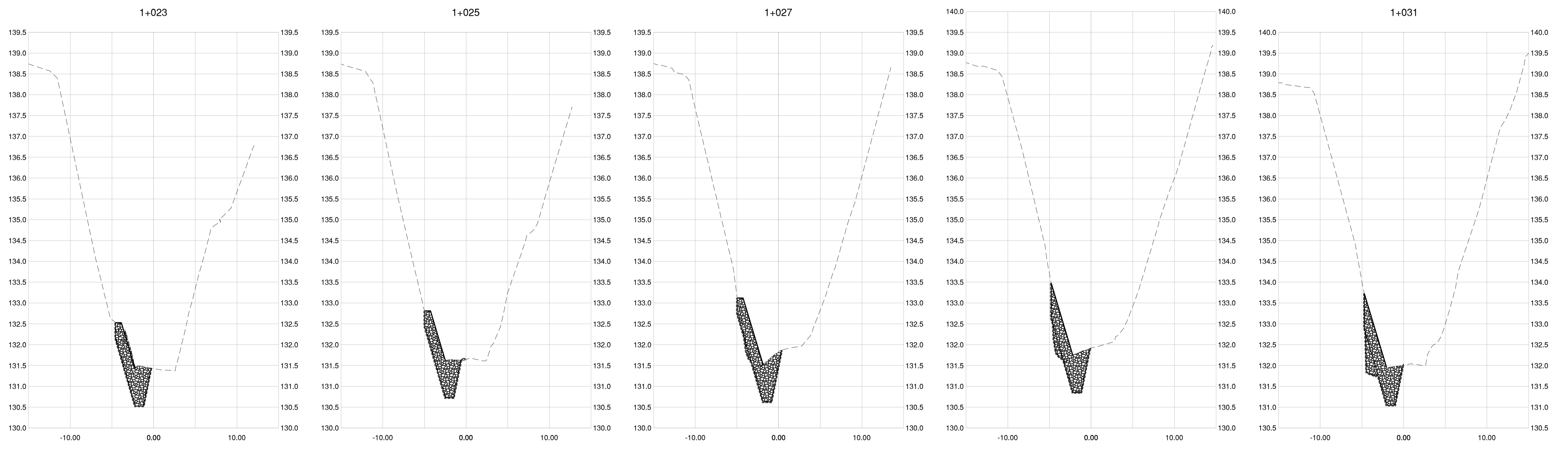
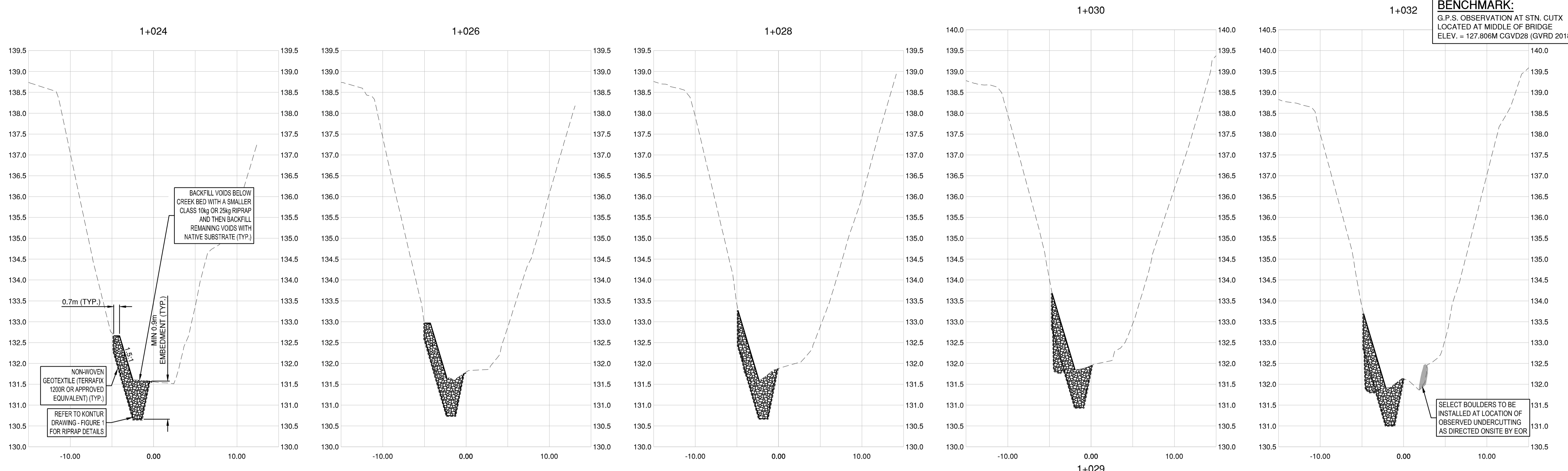
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JT	2025-11-17
Approved by	Date
JT	2025-11-17



Scale	1:250	Scale	1:50
horiz.		vert.	
Sheet	2	of	5
Eng. Project No.	80257		

Project	BOOTH CREEK EROSION PROTECTION
Description	PLAN PROFILE
File	25-0008-P3-1
REV	3

BENCHMARK:
 G.P.S. OBSERVATION AT STN. CUTX
 LOCATED AT MIDDLE OF BRIDGE
 ELEV. = 127.806M CGVD28 (GVRD 2018)



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0 H 1:250 10m
 0 V 1:50 2m
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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 (point pole)	Vegetation Canister
Sanitary sewer, MH	Water service	Streetlight, down	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, post top	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Comb signal pole	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Traffic signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Junction box	Survey Lead Plug
Telephone duct, MH	Drainage cleanout		Survey Monument

No.	Date	By	Revisions
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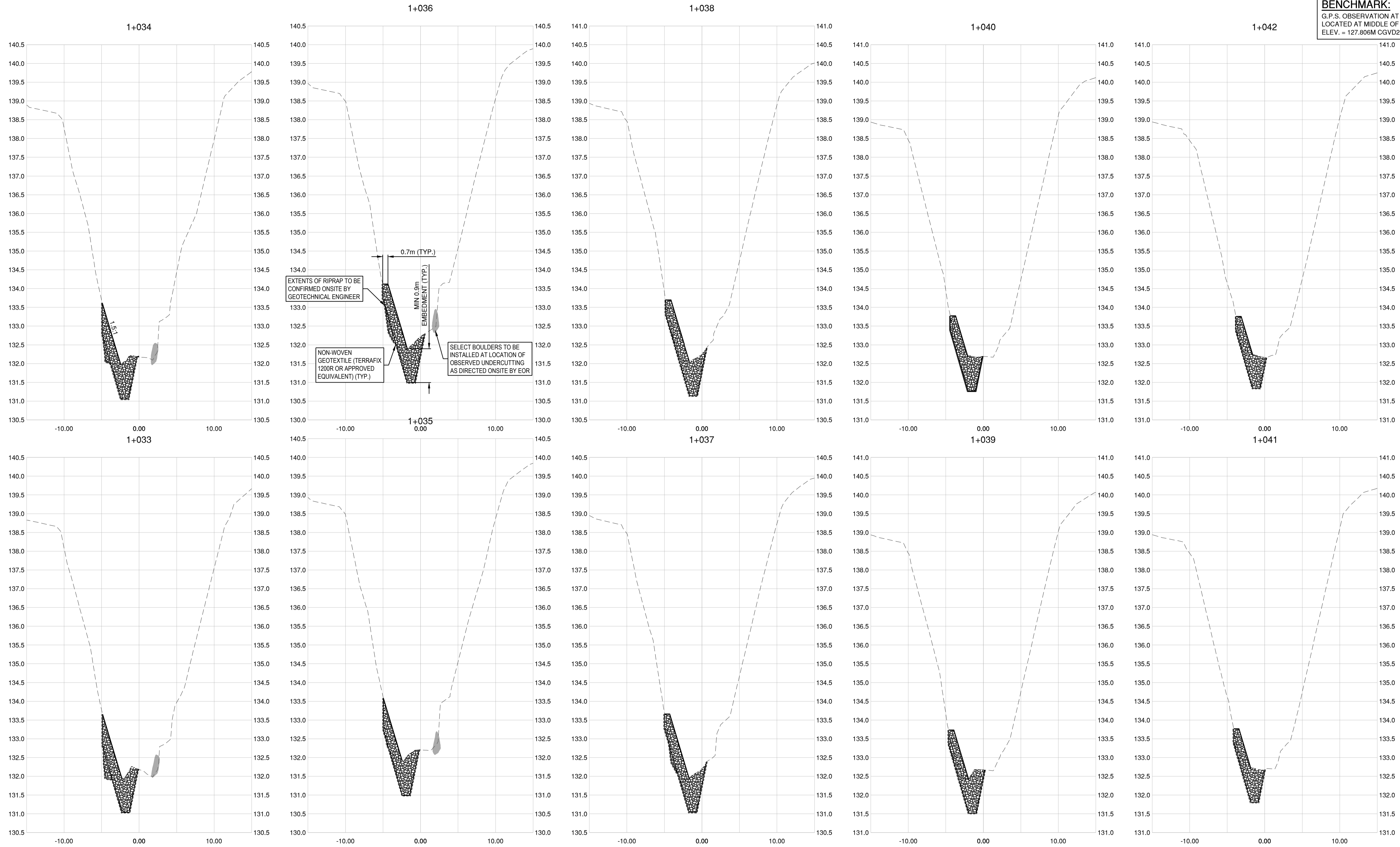
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Scale	1:250	Scale	1:50
horiz.		vert.	
Sheet	3	of	5
Eng. Project No.	80257		

Project	BOOTH CREEK
	EROSION PROTECTION
Description	CROSS SECTIONS
File	25-0008-XS3-1
REV.	3

BENCHMARK:
 G.P.S. OBSERVATION AT STN. CUTX
 LOCATED AT MIDDLE OF BRIDGE
 ELEV. = 127.806M CGVD28 (GVRD 2018)



NOT FOR CONSTRUCTION

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0 H 1:250 10m
 0 V 1:50 2m
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Sanitary sewer, MH	Catch basin, top inlet	Streetlight, post top	Survey Traverse Hub
Sanitary forcemain	Catch basin, side inlet	Comb signal pole	Survey Iron Pin
Gasmain and valve	Catch basin, round	Traffic signal pole	Survey Lead Plug
Hydro duct, MH	Drainage service	Junction box	Survey Monument
Telephone duct, MH	Drainage cleanout		

No.	Date	By	Revisions
3	2026-02-10	SV	ISSUED FOR TENDER
2	2026-02-02	SL	UPDATES FOR ENVIRONMENTAL PERMITTING
1	2025-12-12	SL	ISSUED FOR ENVIRONMENTAL PERMITTING

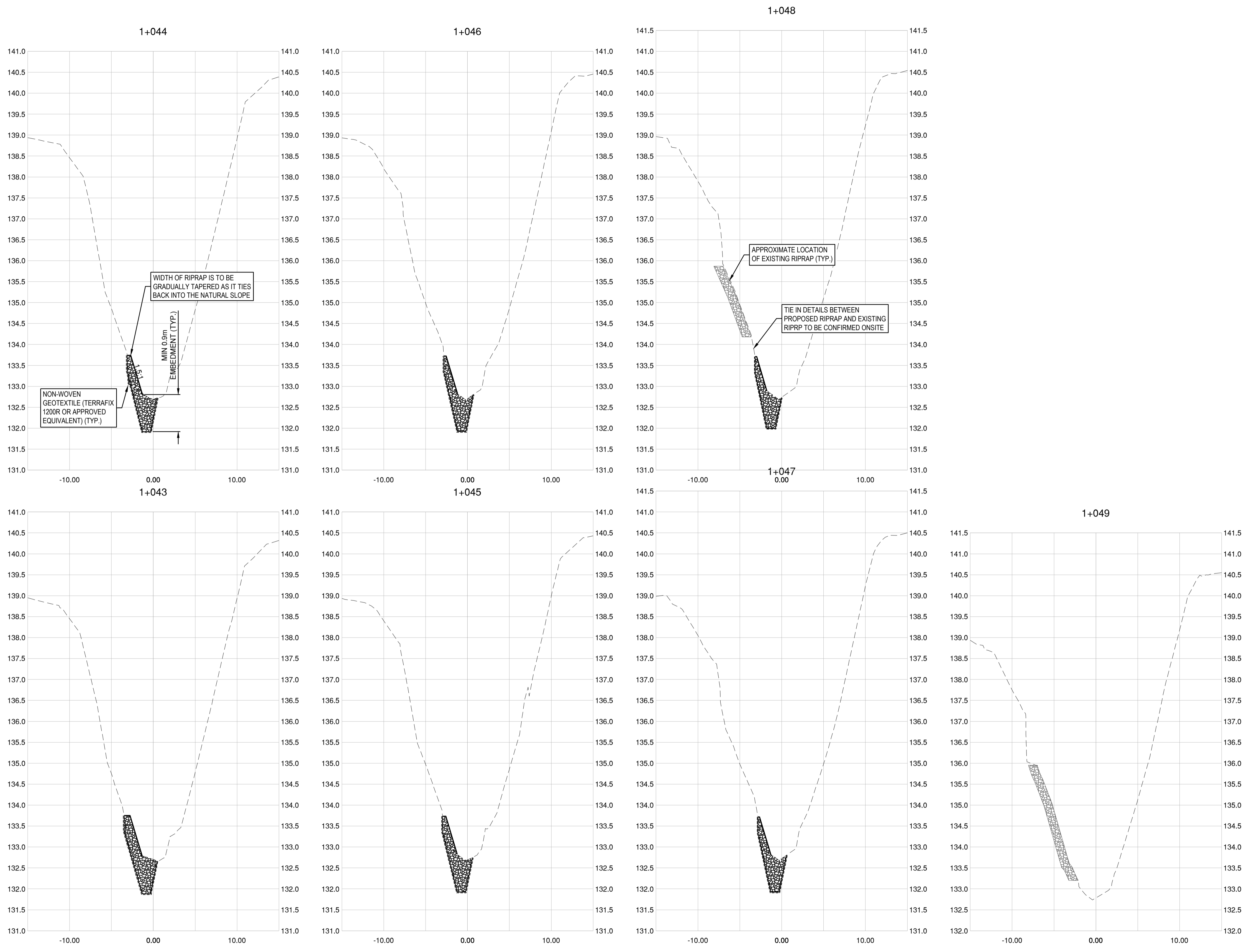
Design by	Date
JC	2025-11-17
Drawn by	Date
TJC	2025-11-17
Checked by	Date
JT	2025-11-17
Approved by	Date
JT	2025-11-17



Scale	1:250	Scale	1:50
horiz.		vert.	
Sheet	4	of	5
Eng. Project No.	80257		

Project	BOOTH CREEK EROSION PROTECTION
Description	CROSS SECTIONS
File	25-0008-XS3-2
REV.	3

BENCHMARK:
 G.P.S. OBSERVATION AT STN. CUTX
 LOCATED AT MIDDLE OF BRIDGE
 ELEV. = 127.806M CGVD28 (GVRD 2018)



NOT FOR CONSTRUCTION

EGBC PERMIT No. 1001128

ISSUED FOR TENDER

0 H 1:250 10m
 0 V 1:50 2m
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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, dim	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
3	2026-02-10	SV	ISSUED FOR TENDER
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JC	2025-11-17
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JT	2025-11-17



Scale	1:250	Scale	1:50
horiz.		vert.	
Sheet	5	of	5
Eng. Project No.	80257		

Project	BOOTH CREEK
	EROSION PROTECTION
Description	CROSS SECTIONS
File:	25-0008-XS3-3
REV.	3