



Addendum No. 3
City of Coquitlam
Tender No. 81832 - Phase 2
Cedar Drive Upgrades - Sanitary Pump Station to Gilleys Trail
 (Consists of 23 Pages)
 Issue Date: May 6, 2025

Tenderers shall note the following changes:

Revisions

1. Refer to: FORM OF TENDER

REMOVE: *Revised* - Appendix 1 - **Revision No. 2**

REPLACE with: *Revised* - Appendix 1 - **Revision No. 3**

**2. Refer to: SUPPLEMENTARY CONTRACT SPECIFICATIONS,
Section 32 31 13S (CHAIN LINK FENCES AND GATES)**

Delete Clause 1.5.5 and replace with the following:

Payment under this item will include supply and installation of single rail fence as per COQ-L5A complete with Chain-link mesh.

Add Clause 1.5.6:

Payment under this item will include supply and installation of a non-removable restriction post (bollard), with 3x2 inches red reflective tape spaced evenly below bottom of cap, pipe size 114.3 OD x 6.4 wall thickness and 1508 mm long with domed bollard cap, concrete base, complete.

**3. Refer to: SUPPLEMENTARY CONTRACT SPECIFICATIONS,
Section 33 05 25S (HORIZONTAL DIRECTIONAL DRILLING)**

Delete Clause 3.1.2 and replace with the following:

The owner has pre-ordered the HDPE pipe only, not including fittings, to address lead time on pipe materials. The pipe vendor/supplier will deliver the pipe at the job site in Coquitlam. The Contractor will

be responsible for coordination with the supplier for scheduling the pipe delivery. Once the pipe has arrived at the job site in Coquitlam, the Contractor will assume all responsibility for pipe handling, including unloading, storage, protecting, fusing, stockpiling and security of the pipe on site, and all other works incidental to pipe supply and installation. The Owner transfers all risk of pipe safety, unloading, storage etc. to the Contractor once the Contract between the Contractor and Owner is in place and the pipe has been delivered to the job site in Coquitlam.

**4. Refer to: SUPPLEMENTARY CONTRACT SPECIFICATIONS,
Section 33 42 13S (PIPE CULVERTS)**

Add to Clause 1.5.2:

The owner has pre-ordered the Concrete Box Culverts, to address delivery lead time. The culvert vendor/supplier will deliver the culverts at the job site in Coquitlam. The Contractor will be responsible for coordination with the suppliers for scheduling the concrete culverts delivery. Once the concrete culverts have arrived at the job site in Coquitlam, the Contractor will assume all responsibility for culvert handling, including unloading, storage, protecting, stockpiling and security of the culverts on site, and all other works incidental to culvert supply and installation. The Owner transfers all risk of concrete culverts safety, unloading, storage etc. to the Contractor once the Contract between the Contractor and Owner is in place and the culverts have been delivered to the job site in Coquitlam.

5. Refer to: AGREEMENT, Schedule 2, List of Drawings

REMOVE

TITLE	CONSULTANT	SHEET NO.	REVISION NO.	DATE
ROAD WORKS: TYPICAL SECTIONS	ISL	03	E	2025/04/24
ROAD + WATER: STA 0+580 TO 0+720	ISL	05	E	2025/04/24
ROAD + WATER: STA 0+720 TO 0+840	ISL	06	E	2025/04/24
ROAD + WATER: STA 0+840 TO 0+980	ISL	07	E	2025/04/24
ROAD + WATER: STA 0+980 TO 1+120	ISL	08	E	2025/04/24
ROAD + WATER: STA 1+120 TO 1+260	ISL	09	E	2025/04/24
ROAD + WATER: STA 1+260 TO 1+390	ISL	10	E	2025/04/24
ROAD + WATER: STA 1+390 TO 1+530	ISL	11	E	2025/04/24
PARTINGTON CREEK ENHANCEMENT HABITAT	ISL	27	B	2025/04/24

REPLACE WITH

TITLE	CONSULTANT	SHEET NO.	REVISION NO.	DATE
ROAD WORKS: TYPICAL SECTIONS	ISL	03	F	2025/05/05
ROAD + WATER: STA 0+580 TO 0+720	ISL	05	F	2025/05/05
ROAD + WATER: STA 0+720 TO 0+840	ISL	06	F	2025/05/05
ROAD + WATER: STA 0+840 TO 0+980	ISL	07	F	2025/05/05
ROAD + WATER: STA 0+980 TO 1+120	ISL	08	F	2025/05/05
ROAD + WATER: STA 1+120 TO 1+260	ISL	09	F	2025/05/05
ROAD + WATER: STA 1+260 TO 1+390	ISL	10	F	2025/05/05
ROAD + WATER: STA 1+390 TO 1+530	ISL	11	F	2025/05/05
PARTINGTON CREEK ENHANCEMENT HABITAT	ISL	27	C	2025/05/05

Contractor Questions/Clarifications

Q1.) Will all the woody debris (logs, snags, etc.) be “anchored” to the boulders? This would typically done with cable and anchors drilled and adhesived into the boulders.

A1.) The 9 LWD structures in the off-channel do not require cabling or adhesives. These locations can be secured using a rock ballasting approach by weighting down the structure with sufficient mass of boulders to prevent the structure from floating away (see Attachment 1 for details).

i. For rock ballasting in the off-channel, the Contractor shall assume 8 boulders ranging between 450mm to 1000 mm in diameter will be required for each LWD structure.

ii. The Contractor may at their discretion cable and rock anchor the LWD structures in the off channel.

The 10 LWD structures in Partington Creek will require cable and rock anchor per attached detail (Attachment 1).

Q2.) Is there any updated Partington Creek flow data?

A2.) Please see Attachment 2 to this Addendum.

Q3.) Can the fire hydrants be moved closer to water main on the other side of the road?

A3.) Hydrants moved to nearside boulevard (new lead length 2-3m). Extra 150 Gate valve not required. Refer to Revised Drawings.

Q4.) Irrigation Drawings do not show any water service connection for Phase 2 irrigation works?

A4.) No new irrigation water service connection is required. Item for providing 50mm service connection has been removed.

Q5.) Confirm if Builders Risk Completed Value “All Risks” Course of Construction Insurance is required for this project as per SGC 24.3.2?

A5.) Yes, it is required.

Q6.) Confirm if excavation and backfill payment window envelop is incidental to the lock block walls? Would it be to the back of the grid length? Remainder paid under common excavation respectively?

A6.) Lock block walls are not required any more, as fire hydrants have been relocated to the West of proposed Cedar Drive.

Q7.) Please provide address of owner supplied potential dump site.

A7.) Potential dump site for removed preload material will be located in NE Coquitlam (Mitchell / Brownlee / Lofting Streets area) at a distance of about 3 Km from Cedar Drive.

Q8.) Would there be any dump fees associated with this site?

A8.) No.

Q9.) Would the contractor be required to provide a machine or crew at the location to receive the dumped material?

A9.) No.

Q10.) Will ESC be required?

A10.) No.

Q11.) Will flagging be required?

A11.) No.

Q12.) Will hydroseeding or other restoration be required once contractor is finished with using the site?

A12.) No.

Q13.) Please provide the yard location that HPDE pipe will need to be delivered from. Confirm ordered quantity amount.

A13.) 1600 feet of HDPE pipe has been ordered. The pipes will be delivered to the job site (Cedar Drive) in Coquitlam. The Contractor will be responsible for coordination, unloading, storage, security of delivered pipe.

Q14.) We request Risk not be pushed to Contractor for supply of pipe, it should not be agreed until the Contractor had ample time to inspect the provided pipe at the yard prior to delivering it to the site.

A14.) Please see revised Clause 3.1.2 (Section 33 05 25S). The HDPE pipe will be delivered directly to job site by the Supplier. Contractor to co-ordinate with the pipe supplier.

Q15.) What elevations was the Phase 1 works stripped too? We need to know what approx. elevations the preload started at. This will help us identify if or when we may encounter the existing poor spoil conditions. Specifically when installing the box culverts, HDD Pits, and gravity mains.

A15.) No preload embankment was removed, except for a small section where Trees and other shrubs have been planted.

Q16.) Please provide as built drawings for the pump station. It is noted that there are existing sheet piles already in the ground. Please provide further details or as-builts of these sheets.

A16.) Location of existing sheet piles have been noted on the tender drawings. No further details are available.

Q17.) What elevation were the sheet piles cut off at?

A17.) Sheet piles have been cut off near the ground surface.

Q18.) Please provide drawing x-section for Cedar Drive road alignment. Possible in 20m increments.

A18.) Typical cross-sections are available in the Tender Drawings.

Q19.) Is a Topo Survey of existing site area available to get a better understanding of excavation areas and requirements?

A19.) No separate Topo Survey is available. Tender drawings are based on available survey information.

Q20.) Who is responsible to receive knotweed removal and disposal @ the Gilley's trail Owner supplied site? Where is the actual location, can a pin drop be provided? Will any dump fees be charged? What type of truck access is allowed?

A20.) 1341 Gilleys Trail is the address of City owned lot where the knot weed infested soil will be dumped. Contractor will be responsible for dumping and spreading the soil on this site. There are no dump fees. A gravel path leads to this site off Gilleys Trail. Refer to Appendix F, Knotweed Management Plan.

Q21.) How will Tariffs and looming customs or duty's policy changed be handled on material required for the project?

A21.) Please refer to MMCD General Conditions, 19.1 Taxes. Contractor will be required to produce documentation showing taxes assumed during bid preparation. This will be reviewed and verified at the sole discretion of Contract Administrator.

End of Addendum No. 3

Tenderers shall take into account the content of this Addendum in the preparation and submission of the Tender which will form part of the contract and shall be acknowledged on the Tender Form, Item 1.

Upon submitting a Tender, Tenderers will be deemed to have received notice of all Addenda that are posted on the City's website and deemed to have considered the information for inclusion in the Tender submitted.

Issued by:

Mark Pain
Manager Procurement
Email: bid@coquitlam.ca

Revised - APPENDIX 1 - Revision No. 3
FORM OF TENDER

Contract 81832 - Phase 2
CEDAR DRIVE UPGRADES - SANITARY PUMP STATION TO GILLEYS TRAIL

SCHEDULE OF QUANTITIES AND PRICES

(see paragraph 5.3.1 of the Instruction to Tenderers)

(All Tender and Contract Prices shall NOT include GST. GST will apply upon payment)

(Should there be any discrepancy in the information provided, the City's original file copy shall prevail)

ITEM NO.	MMCD Ref./ (Supplementary Contract Specifications)	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
1.0	01 53 01S	TEMPORARY FACILITIES				
1.01	(1.9.2)	Ground Water Management and Dewatering of all site	Lump Sum	1		
1.02	(1.9.3)	Partington Creek Bypass as per Environmental Management Plan (EMP) - Appendix C and ESC Plan (Contract Drawings)	Lump Sum	1		
1.03	(1.9.4)	Temporary shoring to be provided as required to maintain existing road during north culvert installations. Shoring design to be sealed by a professional engineer	Square Meter	34		
2.0	01 55 00S	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING				
2.01	1.5.1	Traffic Control and Management			Incidental to Contract	
3.0	01 57 01S	ENVIRONMENTAL PROTECTION				
3.01	(1.6.1)	ESC supply & installation, maintenance and removal	ALLOWANCE			\$ 120,000
4.0	01 58 01S	PROJECT IDENTIFICATION				
4.01	(1.3.1)	Construction Zone Information Signs	Each	4		
5.0	03 30 20S	CONCRETE WALKS, CURBS AND GUTTERS				
5.01	(1.4.3)	MMCD C4 Curb and Gutter (Solid or Slotted)	lin.m	1827		
5.02	(1.4.5)	Concrete Pedestrian Letdowns	Square Meter	48		
5.03	(1.4.5)	Concrete Driveway Letdowns and Aprons	Square Meter	95		
5.04	(1.4.10)	Tactile Strip - 0.6m x 3.5m Access Tile, Truncated Dome Pattern, Yellow color - Cast-in-place (removable)	Each	3		
6.0	04 43 00S	CHANNEL SUBSTRATE				
6.01	(1.3.1)	Channel Substrate Gravel Mix	Cubic Meter	850		
6.02	(1.3.2)	600mm Dia. Boulder	Each	50		
7.0	26 56 01	ROADWAY LIGHTING				
7.01	1.9.1	Street and MUP Lighting	Lump Sum	1		
8.0	31 11 01S	CLEARING AND GRUBBING				
8.01	(1.4.1)	Tree and Shrub Removals, Clearing and Grubbing	Lump Sum	1		
9.0	31 23 01S	EXCAVATING, TRENCHING AND BACKFILLING				
9.01	(1.10.9)	Imported Trench Backfill (75mm Minus) (Provisional)	Tonnes	800		
10.0	31 23 23	CONTROLLED DENSITY FILL				

ITEM NO.	MMCD Ref./ (Supplementary Contract Specifications)	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
10.01	1.4	Infill of Existing 1200mm Dia. HDPE Culvert with Controlled Density Fill (CEMATRIX or Approved Equal)	Cubic Meter	110		
11.0	31 24 13S	ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION				
11.01	(1.8.5)	Common Excavation - Off Site Disposal, includes stripping and top soil removal (Provisional)	Cubic Meter	23000		
11.02	(1.8.5)	Common Excavation - Off Site Disposal to local sites (NE Coquitlam), includes stripping and top soil removal (Provisional)	Cubic Meter	23000		
11.03	(1.8.5)	Common Excavation - Onsite reuse (Provisional)	Cubic Meter	2000		
11.04	(1.8.5)	Japanese Knotweed Removal and Off Site Disposal (Provisional)	Cubic Meter	750		
11.05	(1.8.15)	Japanese Knotweed Removal and Off Site Disposal at 1341 Gilleys Trail (Provisional)	Cubic Meter	750		
11.06	(1.8.10)	Overexcavation, Offsite Disposal, Backfilling (includes top soil stripping) (Provisional)	Cubic Meter	500		
11.07	(1.8.16)	Regrading of embankment slope (SE section) below tree line after removal of sloughed top soil as shown on Contract Drawings. Work is recommended to be done from the embankment top so as to protect existing Coho Gravel.	Square Meter	1100		
11.08	(1.8.5)	Off site disposal of previously stockpiled soil on 1341 Gilleys Trail (Provisional)	Cubic Meter	450		
11.09	(1.8.4)	Relocating the existing lock blocks placed on 1341 Gilleys Trail, after rough grading the ground (Provisional)	each	100		
11.10	(1.8.14)	Light Weight Fill Material - Pumice Aggregate	Cubic Meter	1300		
11.11	(1.8.5)	Relocating boulders (600mm or bigger) on preload and alongside driveways (Provisional)	each	100		
11.12	1.8.7	Imported Embankment Fill, 75mm SGSB (Provisional)	tonne	9000		
12.0	31 37 10	RIPRAP				
12.01	1.4.1	Placing 300mm Riprap for armoring and side slope stability as shown on Contract Drawings	Cubic Meter	50		
13.0	32 11 16.1S	GRANULAR SUBBASE				
13.01	(1.4.3)	75mm Clear Crushed Gravel	Tonne	700		
13.02	(1.4.3)	75mm Minus Crushed Granular Sub Base - Road	Tonne	5380		
13.03	(1.4.3)	75mm Minus Crushed Granular Sub Base - Driveways (PROVISIONAL)	Tonne	360		
14.0	32 11 23S	GRANULAR BASE				
14.01	(1.4.3)	19mm Minus Crushed Granular Base, variable thickness, for roadway and as shown on Contract Drawings	Tonne	5400		
15.0	32 12 13.1S	ASPHALT TACK COAT				
15.01	(1.5.1)	Asphalt Tack Coat	Square Meter	8050		
16.0	32 12 16S	HOT-MIX ASPHALT CONCRETE PAVING				
16.01	(1.5.1)	Machine Laid Hot Mix Asphalt 50mm (MMCD Uppercourse #1)	Tonne	990		

ITEM NO.	MMCD Ref./ (Supplementary Contract Specifications)	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
16.02	(1.5.1)	Machine Laid Hot Mix Asphalt 50mm (MMCD Lower Course #1)	Tonne	990		
16.03	(1.5.1)	Machine Laid Hot Mix Asphalt (Driveways/Letdowns, MUP) (MMCD Upper Course #2)	Tonne	450		
17.0	32 17 23S	PAINTED PAVEMENT MARKINGS				
17.01	(1.5.3)	Permanent Thermoplastic Pavement Markings	Lump Sum	1		
17.02	(1.5.4)	Supply & Install of Traffic Signage - City to supply all new sign tabs	Lump Sum	1		
18.0	32 31 13S	CHAIN LINK FENCES AND GATES				
18.01	1.5.1	Chain Link Fence (1.8m High) (MMCD details see)	lin.m	682		
18.02	1.5.2	Chain Link Gate (1.8M High) - 4300 Oliver Road	lin.m	11		
18.03	1.5.2	Chain Link Gate (1.8M High) - North Pond	lin.m	6		
18.04	1.5.3	Relocation of Existing Chain Link Gates (4170 Cedar Drive)	Each	1		
18.05	(1.5.5)	Single Rail Trail Fence (as per COQ-L5A) complete with Chain Link Mesh	lin.m	768		
18.06	1.5.2	4.0m Wide Tubular Swing Gate as shown on Drawing Sheet 07	Each	1		
18.07	(1.5.6)	Fixed Steel Bollards, Complete with Concrete Base, 114.3ODx6.4x1598 long, Red Reflective Tape 3x50mm, Domed Cap, Complete	Each	14		
19.0	32 84 23S	IRRIGATION SYSTEM				
19.01	(1.11)	Providing and Installing irrigation system complete with double check valve assembly (Watt 007QT), irrigation controller, Rainbird PEB valves, all labor, equipment and materials needed to complete the work as shown on Contract Drawings including maintenance for one year as described in specifications.	Lump Sum	1		
20.0	32 91 21S	TOP SOIL AND FINISH GRADING				
20.01	(1.4.1)	Growing Mediums specified in Contract Drawings	Cubic Meter	8720		
20.02	(1.4.1)	Bark Mulch (100mm), Composted, Brown Colour as Shown in Contract Drawings	Cubic Meter	150		
21.0	32 92 19S	HYDRAULIC SEEDING				
21.01	(1.8)	Hydroseed (Provisional)	Square Meter	310		
21.02	1.8.3	Erosion Control Blanket (Terrafix C200 or approved equivalent)	Square Meter	11,320		
22.0	32 92 23S	SODDING				
22.01	(1.8.1)	Sodding	Square Meter	1900		
23.0	32 93 01S	PLANTING OF TREES, SHRUBS, AND GROUND COVERS				
23.01	(1.9.1)	Tree - Amelanchier canadensis - Canada Serviceberry	Each	14		
23.02	(1.9.1)	Tree - Betula alleghaniensis - Yellow Birch	Each	32		
23.03	(1.9.1)	Tree - Cercis canadensis - Eastern Redbud	Each	6		

ITEM NO.	MMCD Ref./ (Supplementary Contract Specifications)	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
23.04	(1.9.1)	Tree - Crataegus douglasii suksdorfii - Black Hawthorn	Each	4		
23.05	(1.9.1)	Tree - Gleditsia triacanthus - Honey Locust	Each	7		
23.06	(1.9.1)	Tree - Picea glauca - White Spruce	Each	6		
23.07	(1.9.1)	Tree - Pinus contorta - Shore Pine	Each	14		
23.08	(1.9.1)	Tree - Pinus ponderosa - Ponderosa Pine	Each	13		
23.09	(1.9.1)	Tree - Prunus emarginata - Bitter Cherry	Each	20		
23.10	(1.9.1)	Tree - Pseudotsuga menziesii - Douglas Fir	Each	16		
23.11	(1.9.1)	Tree - Quercus garryana - Garry Oak	Each	6		
23.12	(1.9.1)	Shrubs	Each	7636		
23.13	(1.9.1)	Ground Cover	Each	3369		
23.14	(1.9.3)	Large Woody Debris	Each	36		
23.15	(1.9.3)	Tree Snag	Each	12		
23.16	(1.9.3)	Bat Box	Each	16		
23.17	(1.9.3)	Wood Wattle Fence on East Slope (Towards Blueberry Farms) as shown on Contract Drawings to be installed as directed by QEP	Linear Meter	1880		
24.0	33 05 25S	HORIZONTAL DIRECTIONAL DRILLING				
24.01	(3.1)	450mm (18") DR11 HDPE Sanitary Main c/w Temporary Cap - Grey Pipe (HDPE Pipe to be supplied by the City; excluding fittings; Contractor to coordinate delivery, unloading, and safety and storage on site)	Linear Meter	474		
25.0	33 11 01S	WATERWORKS				
25.01	(1.8.2)	200mm DI CL50 Water Main (V-Bio Encased) TR Flex or Tyton c/w Approved Joint restraints; Approved Native Backfill	Linear Meter	973		
25.02	(1.8.2)	Steel Casing 450Ø SCH40 c/w RACI SPACERS as shown on Contract Drawings	Linear Meter	9		
25.03	(1.8.3)	200 x 200 x 200 Tee	Each	3		
25.04	(1.8.3)	200 x 200 x 150 Tee	Each	7		
25.05	(1.8.3)	200mm 45 Degree DI Elbow	Each	3		
25.06	(1.8.3)	200mm 22.5 Degree DI Elbow	Each	2		
25.07	(1.8.3)	200mm Gate Valve	Each	13		
25.08	(1.8.4)	25mm Water Service Connection (as per COQ-W2b-2)	Each	1		
25.09	(1.8.4)	50mm Water Service Connection to #4170 (as per COQ-W2e). Existing water service to be removed and capped as per COQ - W2h.	Each	1		
25.10	(1.8.4)	Transfer 50mm Water Service Connection to #4182 (as per COQ-W2e)	Each	1		
25.11	(1.8.4)	Transfer 50mm Water Service Connection to Pump Station (as per COQ-W2e)	Each	1		

ITEM NO.	MMCD Ref./ (Supplementary Contract Specifications)	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
25.12	(1.8.4)	25mm Water Service Connection to #4180 (as per COQ-W2b-2). Existing water service to be removed and capped as per COQ - W2g.	Each	1		
25.13	(1.8.4)	50mm Water Service Connection to #4196 (as per COQ-W2e)	Each	1		
25.14	(1.8.4)	25mm Water Service Connection to #4265 (as per COQ-W2b-2)	Each	1		
25.15	(1.8.5)	Air Release Valve (as per COQ-W6)	Each	5		
25.16	(1.8.7)	Blow-off Assembly (as per COQ-W8)	Each	1		
25.17	(1.8.15)	Fire Hydrant Assembly Terminal City C71P c/w Storz (Complete as per MMCD W4)	Each	7		
25.18	(1.8.13)	Existing 200mm Watermain Tie-In	Each	4		
26.0	33 30 01S	SANITARY				
26.01	(1.6.2)	375mm SDR35 PVC Sanitary Main; Approved Native Backfill	Linear Meter	410		
26.02	(1.6.2)	200mm SDR35 PVC Sanitary Main; Approved Native Backfill	Linear Meter	12		
26.03	(1.6.2)	375mm Dia. Temporary Cap	Each	2		
26.04	(1.6.2)	200mm Dia. Temporary Cap	Each	1		
26.05	(1.6.3)	New 100mm Dia. Sanitary Service Connection to #4265 (as per MMCD S7)	Each	1		
26.06	(1.6.7)	Existing 375mm Sanitary Main Tie-In	Each	1		
27.0	33 40 01S	STORM SEWERS				
27.01	(1.6.6)	100mmØ PVC Perforated Pipe Including Day Lighting, Drain Rock, Filter Fabric as shown in contract Drawings, Complete.	Linear Meter	250		
28.0	33 42 13S	PIPE CULVERTS				
28.01	(1.5.2)	600mm Conc. Culvert (Creek Bypass)	Linear Meter	100		
28.02	(1.5.2)	300mm Conc. Culvert	Linear Meter	14		
28.03	(1.5.2)	1.2mx2.1m CONC. Box Culvert; c/w Weir and Coho Gravel As Shown on Contract Drawings (Concrete Culverts to be Supplied by the City; Contractor to coordiante delivery, unloading, and safety and storage on site)	Linear Meter	72		
28.04	(1.5.2)	0.9mx2.1m CONC. Box Culvert; c/w Weir and Coho Gravel As Shown on Contract Drawings (Concrete Culverts to be Supplied by the City; Contractor to coordiante delivery, unloading, and safety and storage on site)	Linear Meter	36		
28.05	(1.5.2)	250mm SDR28 PVC Culvert	Linear Meter	33		
28.06	(1.5.2)	200mm SDR28 PVC Culvert	Linear Meter	37		
28.07	(1.5.2)	200mm Dia. Flap Gate	Each	1		
28.08	(1.5.8)	Fabricate and install Trash Racks for existing 1200mm HDPE Overflow Risers (StormRax - Round - 60inches or equivalent)	Each	2		
29.0	33 44 01S	MANHOLES AND CATCHBASINS				

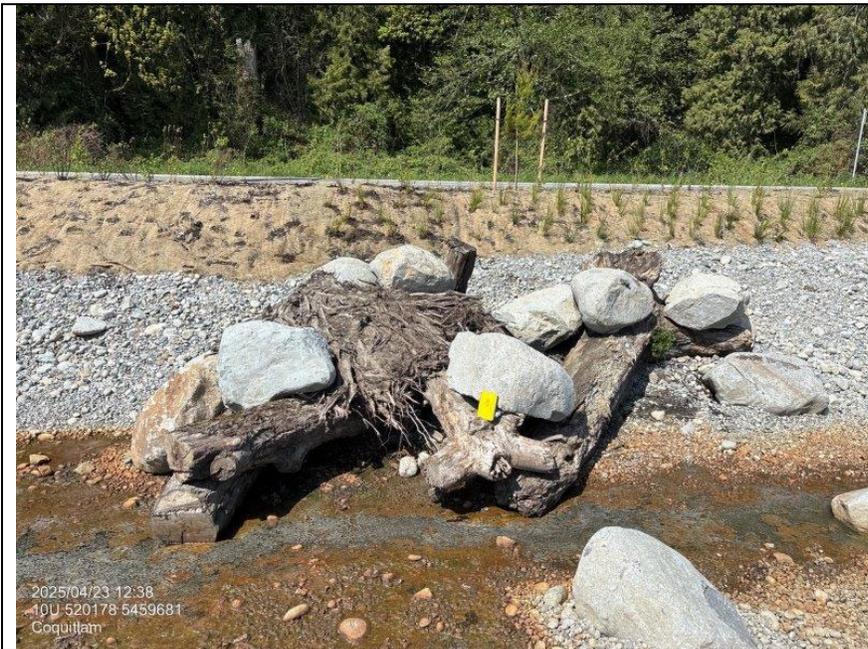
ITEM NO.	MMCD Ref./ (Supplementary Contract Specifications)	DESCRIPTION	UNIT OF MEASURE	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
29.01	(1.5.1.1)	1050mm Concrete Sanitary Pre-benched Manhole Base c/w Slab, Frame and Cover	Each	7		
29.02	(1.5.1.2)	1050mm Sanitary Manhole Risers	Vert. Meter	28		
29.03	(1.5.7)	1050mm Concrete Sanitary Overbuild Manhole Base c/w Benching, Slab, Frame and Cover	Each	2		
29.04	(1.5.3.2)	Water Valve Box Replacement - Terminal City Nelson Type as Directed by CA (Provisional)	Each	3		

Total Tendered Price (exclude GST): _____

(Transfer the amount to Form of Tender Summary Page 1)

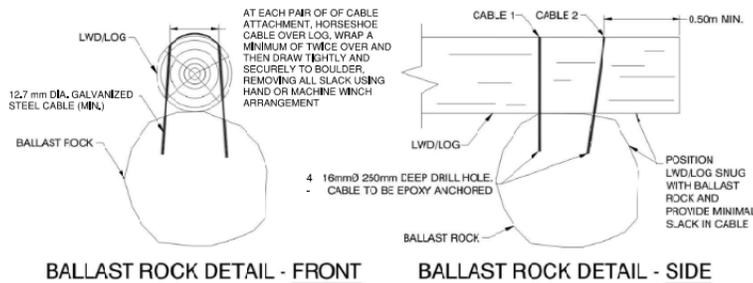
Name of **Contractor**:

ATTACHMENT 1



2025/04/23 12:38
10U-520178-5459681
Coquitlam

Large Woody Debris Anchoring Detail in off Channel



ROCK BALLAST QUANTITIES DEPENDENT ON LENGTH AND DIAMETER OF LWD PROCURED BY CONTRACTOR, CONTRACTOR TO REPORT LWD LENGTH AND DIAMETER TO PROJECT ENVIRONMENTAL MONITOR WHO WILL CONFIRM ROCK MASS AND APPROPRIATE BOULDER SIZE CLASS.

CONTRACTOR TO PRICE ROCK ANCHOR BALLAST BASED ON BOULDER SIZE RANGE OF 0.6 m to 1.1 m DIAMETER, ROCK MASS, DIAMETER AND BOULDER COUNT TO BE CONFIRMED AT CONSTRUCTION ONCE LWD LENGTH AND DIAMETER IS PROVIDED TO THE ENVIRONMENTAL MONITOR, CONTRACTOR TO ASSUME A MINIMUM OF 3 ROCKS PER LOG FOR TENDER.



PREPARED BY: ISL Engineering and Land Services K2C1, 8505 - 30C Street Langley, BC V2Y 0M1	PROFESSIONAL SEAL:	PROJECT: PHASE 2 - CEDAR DRIVE UPGRADES SANITARY PUMP STATION TO GILLEY'S TRAIL
		SITE ADDRESS: PARTINGTON CREEK HABITAT ENHANCEMENT CEDAR DRIVE COQUITLAM, BC
		DATE: APR 24, 2025 DRAWING: ROCK ANCHOR DETAIL PAGE: 1 OF 1
		DRAWN BY: DEN DRAWING #: DWG401 REVISION: 00

Large Woody Debris Anchoring Detail in Partington Creek

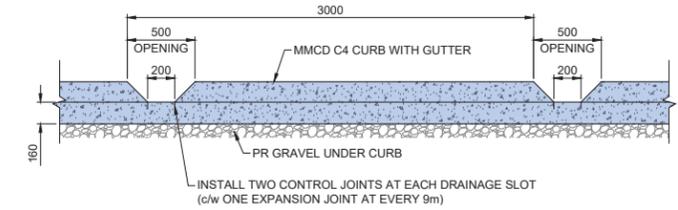
ATTACHMENT 2

Partington Creek	Value		Target S, D, I ¹	Trend ²
	2016/2017	2023		
MAD (L/s)	347	207		
TQ Mean	0.356	0.41	S or I	I
Low Pulse Count	24	6	S or D	D
Low Pulse Duration (Days)	6.27	28.7	S or I	I
Summer Baseflow (L/s)	0.8	5.1	S	I
Winter Baseflow (L/s)	125	50	S or I	D
High Pulse Count	49	20	S or D	D
High Pulse Duration (Days)	0.94	2.6	S or I	I

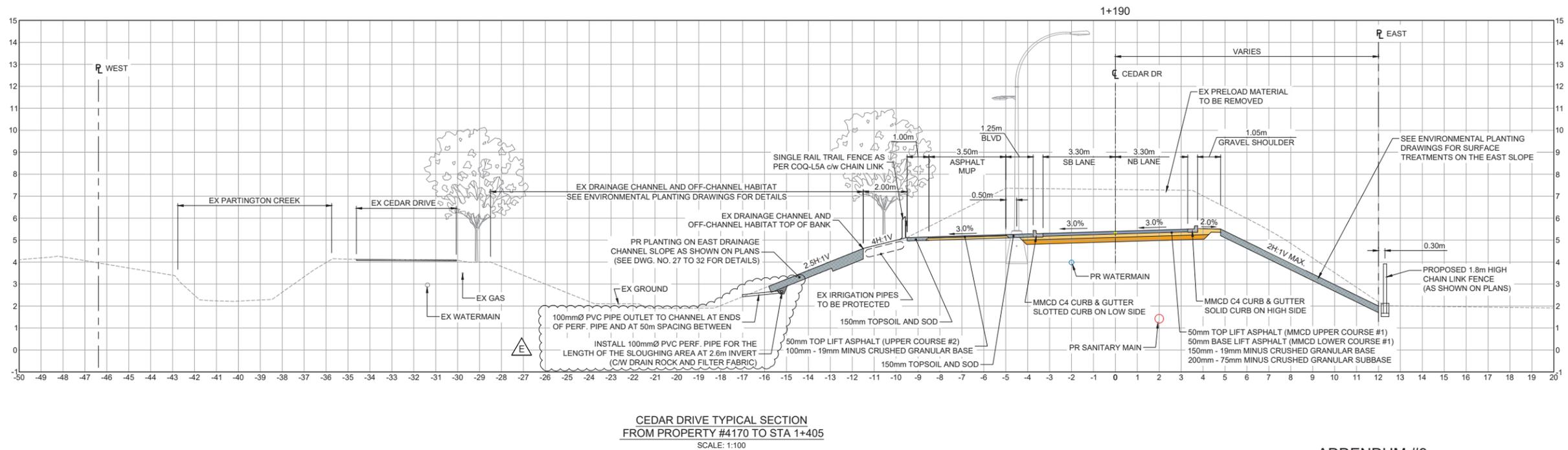
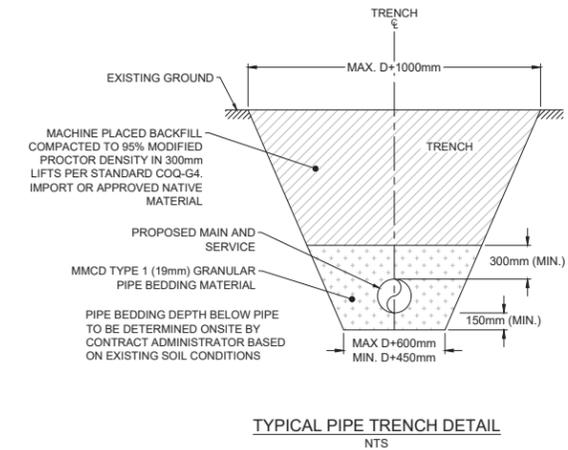
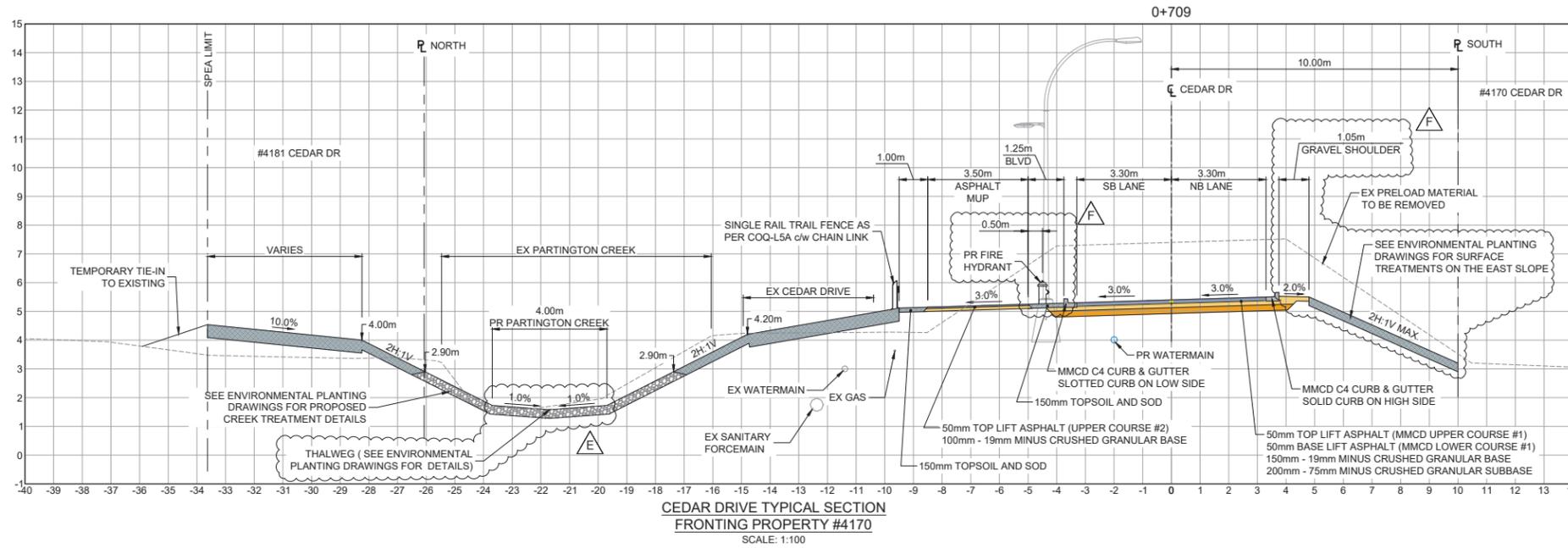
Permit to Practice
 ISL Engineering and Land Services Ltd.

RR Signature: 
 RR EGBC ID: 31808
 Date: 2025-05-05

Permit Number 1000419
 Engineers & Geoscientists British Columbia



CONCRETE MMCD C4 BARRIER CURB DRAINAGE SLOTS SPACING AND DETAIL
 SCALE: 1:25



ADDENDUM #3 DESIGN NO.

33527

SCALE	AS SHOWN	CREATION DATE	OCT - 2023	DWG. NO.	03
DRAWN BY	GA	DESIGN BY	CJB	OF	42
CHECKED BY	CJB	APPROVED BY	CJB	REV.	F

File: c:\MSK\AC\Doc\B\32028_csq_cedar_drive_upgrade\1_and_2_cedar_drive_upgrade\32028_SH_Typical_Sections_Phase_1.dwg

REV. NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
B	UPDATED DETAILED DESIGN	2023/11/24	GA	CJB
C	UPDATED DETAILED DESIGN 2	2023/12/19	GA	CJB
D	ISSUED FOR TENDER	2025/04/07	GA	CJB
E	ADDENDUM #2	2025/04/24	GA	CJB
F	ADDENDUM #3	2025/05/05	GA	CJB

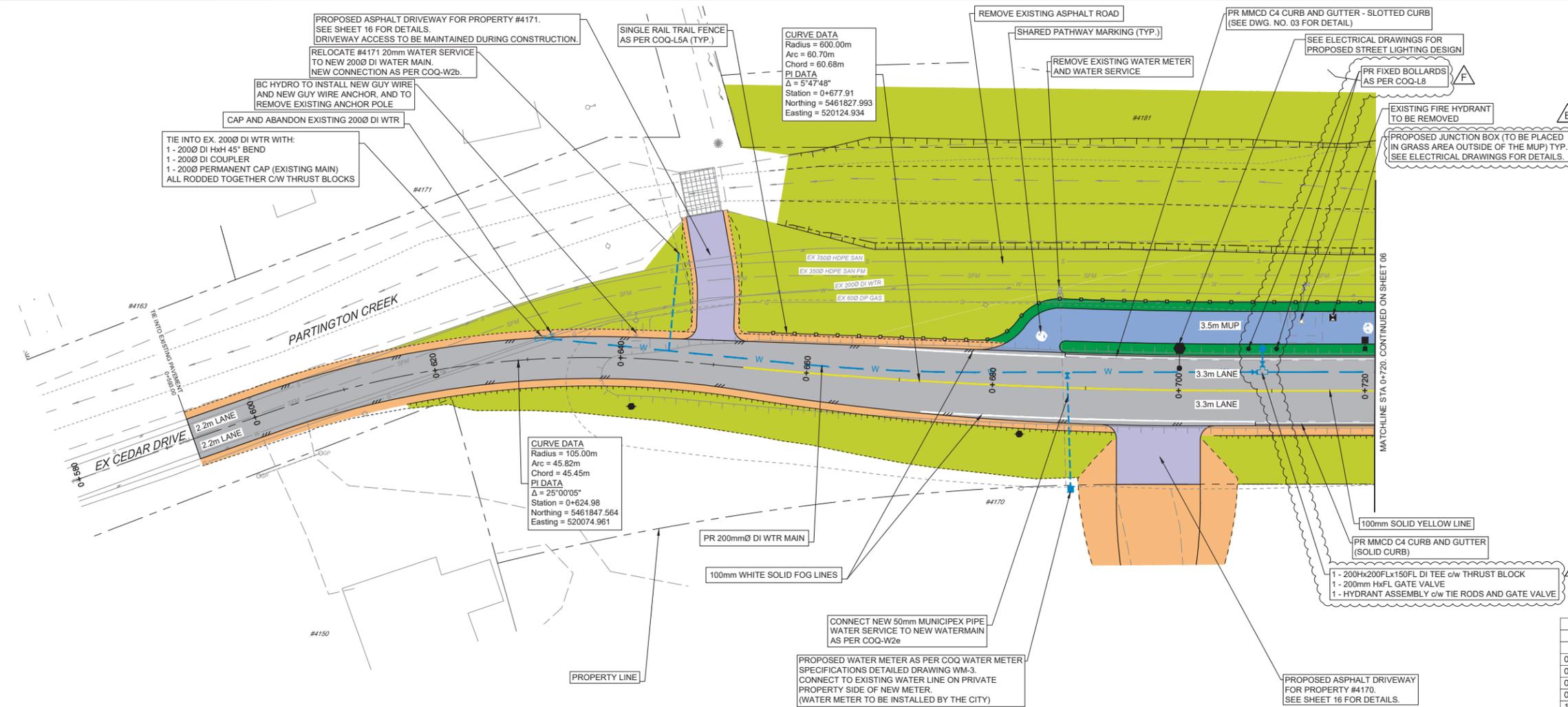


ROAD WORKS

**TYPICAL SECTIONS
 CEDAR DRIVE UPGRADES - PHASE 2**



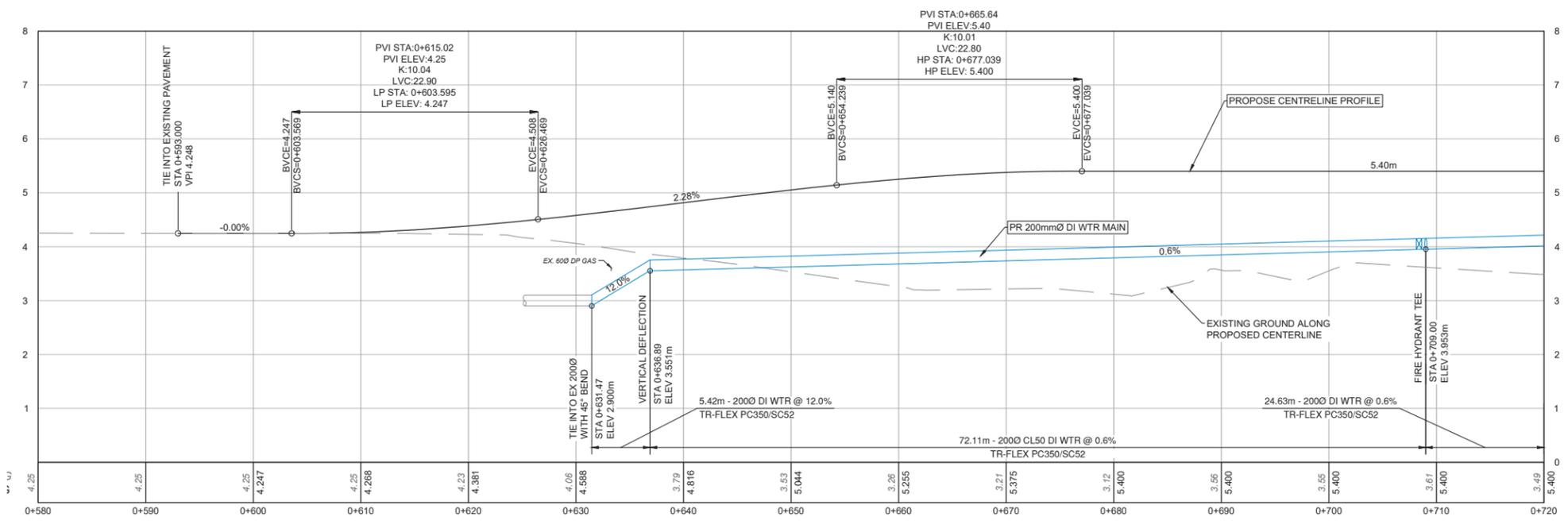
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
 T: 604-609-2996 F: 604-609-2999



- SURFACE TREATMENT**
- ROAD SURFACE:**
 - 50 mm TOP LIFT ASPHALT (UPPER COURSE #1)
 - 50 mm BASE LIFT (LOWER COURSE #1)
 - 150 mm OF 19mm MINUS GRANULAR BASE
 - 200mm OF 75mm MINUS GRANULAR SUBBASE
 - MULTI-USE PATH:**
 - 50mm HOT MIX ASPHALT (UPPER COURSE #2)
 - 100mm OF 19mm MINUS GRANULAR BASE
 - ASPHALT DRIVEWAY:**
 - 50mm HOT MIX ASPHALT (UPPER COURSE #2)
 - 100mm OF 19mm MINUS GRANULAR BASE
 - 200mm OF 75mm MINUS GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY CA)
 - GRAVEL DRIVEWAY / SHOULDER:**
 - 150mm OF 19mm MINUS GRANULAR BASE
 - 200mm OF 75mm CLEAR CRUSHED GRAVEL**
 - 600mm OF 300mm RIPRAP**
 - 150mm TOPSOIL AND SODDING**
 - 100mm TOPSOIL AND HYDROSEED**
 - CONCRETE**
 - RIPARIAN PLANTING**
- SEE SHEETS 27 TO 32 FOR DETAILS

SUPERELEVATION TABLE

CEDAR DRIVE		
Station	Left Lane	Right Lane
0+593.00m	Meet (Approx. -0.1%)	Meet (Approx. 0.4%)
0+611.04m	2.00%	-2.00%
0+636.83m	2.00%	-2.00%
0+670.00m	-3.00%	3.00%
1+380.00m	-3.00%	3.00%



File: c:\ADSK\ACAD\2025\33527\33527.dwg; Project: Cedar Drive Upgrade; Phase 2; Sheet: 33527-16; Date: May 5, 2025

PLOT DATE: May 5, 2025

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
B	UPDATED DETAILED DESIGN	2023/11/24	GA	CJB
C	UPDATED DETAILED DESIGN 2	2023/12/19	GA	CJB
D	ISSUED FOR TENDER	2025/04/07	GA	CJB
E	ADDENDUM #2	2025/04/24	GA	CJB
F	ADDENDUM #3	2025/05/05	GA	CJB



ROAD + WATER

STA 0+580 TO 0+720
CEDAR DRIVE UPGRADES - PHASE 2



ADDENDUM #3 DESIGN NO.

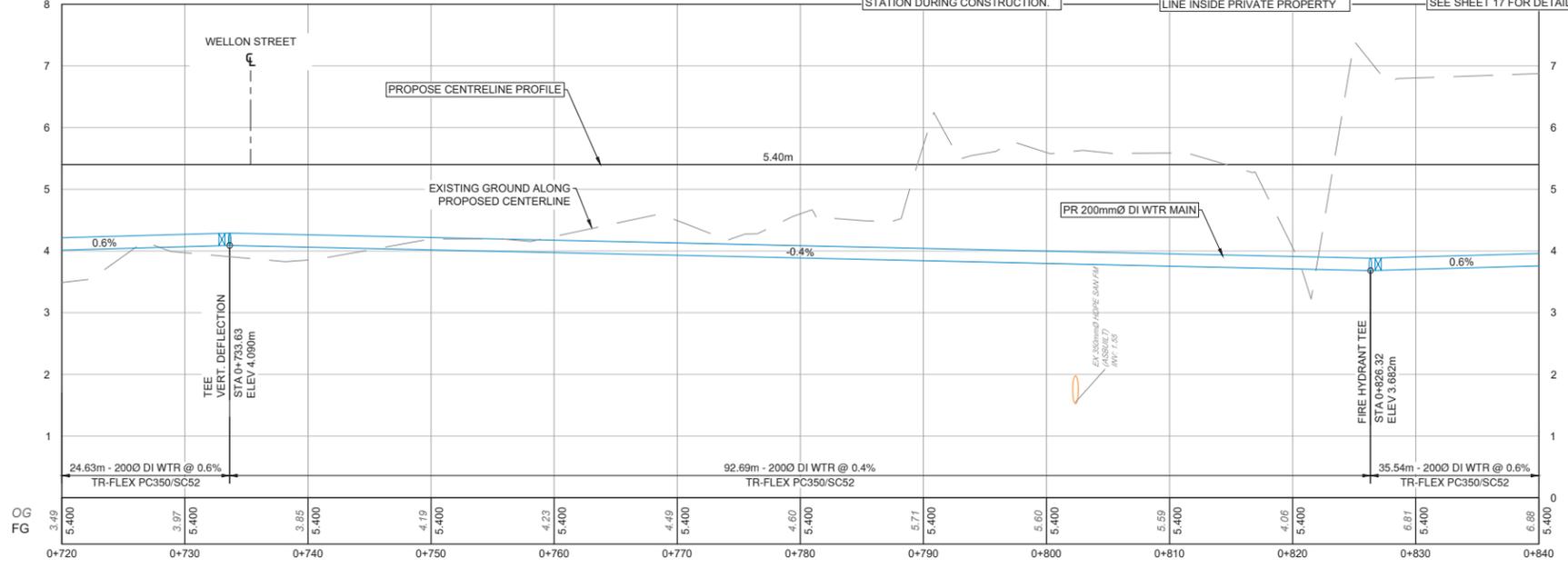
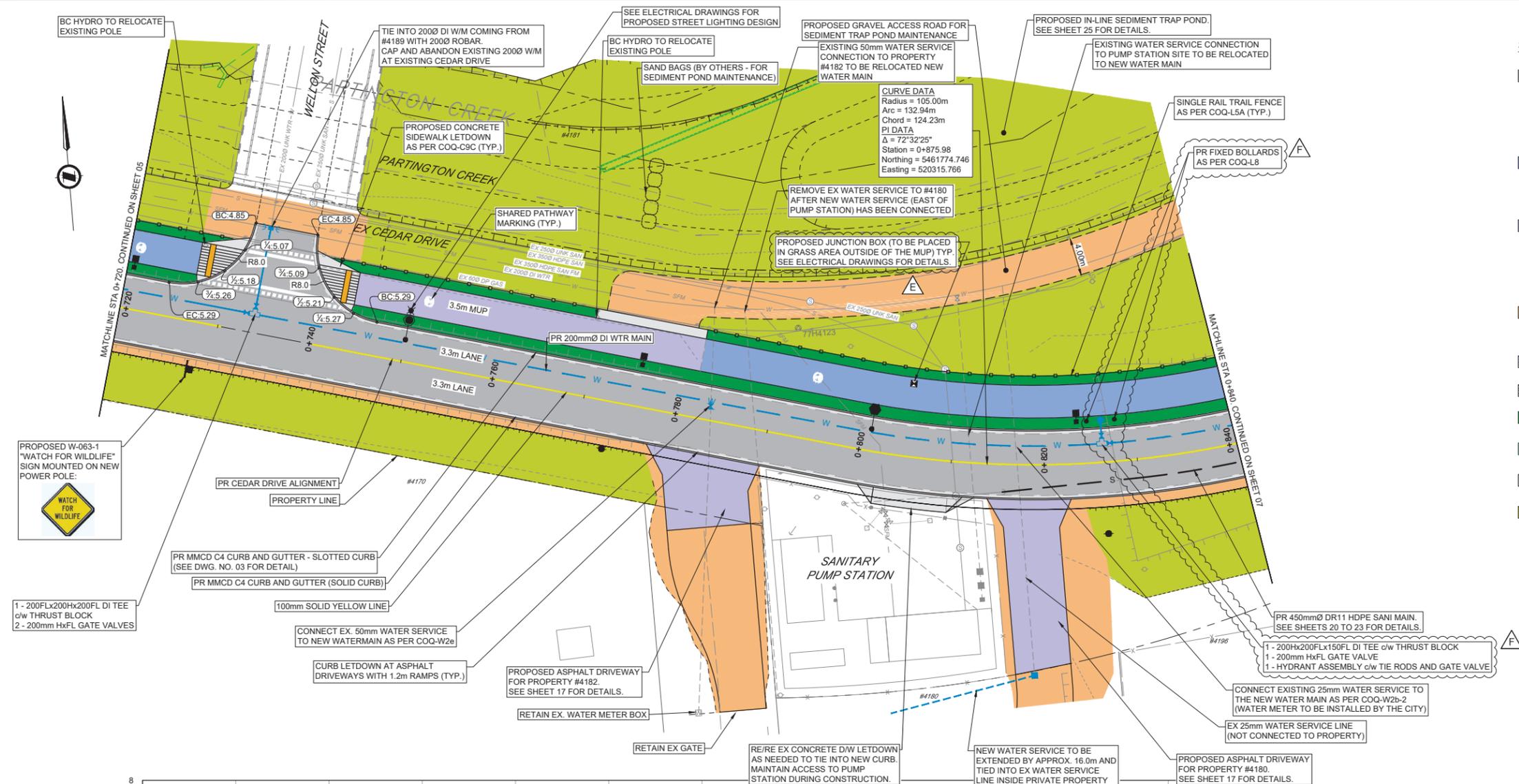
SCALE	1:250	CREATION DATE	OCT - 2023	DWG. NO.
DRAWN BY	GA	DESIGN BY	CJB	05 OF 42
CHECKED BY	CJB	APPROVED BY	CJB	REV. F

33527

SURFACE TREATMENT

- ROAD SURFACE:**
 - 50 mm TOP LIFT ASPHALT (UPPER COURSE #1)
 - 50 mm BASE LIFT (LOWER COURSE #1)
 - 150 mm OF 19mm MINUS GRANULAR BASE
 - 200mm OF 75mm MINUS GRANULAR SUBBASE
- MULTI-USE PATH:**
 - 50mm HOT MIX ASPHALT (UPPER COURSE #2)
 - 100mm OF 19mm MINUS GRANULAR BASE
- ASPHALT DRIVEWAY:**
 - 50mm HOT MIX ASPHALT (UPPER COURSE #2)
 - 100mm OF 19mm MINUS GRANULAR BASE
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- GRAVEL DRIVEWAY / SHOULDER:**
 - 150mm OF 19mm MINUS GRANULAR BASE
- 200mm OF 75mm CLEAR CRUSHED GRAVEL**
- 600mm OF 300mm RIPRAP**
- 150mm TOPSOIL AND SODDING**
- 100mm TOPSOIL AND HYDROSEED**
- CONCRETE**
- RIPARIAN PLANTING**
 - SEE SHEETS 27 TO 32 FOR DETAILS

SUPERELEVATION TABLE		
CEDAR DRIVE		
Station	Left Lane	Right Lane
0+670.00m	-3.00%	3.00%
1+380.00m	-3.00%	3.00%



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PLOT DATE: May 5, 2025

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
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F	ADDENDUM #3	2025/05/05	GA	CJB



ROAD + WATER

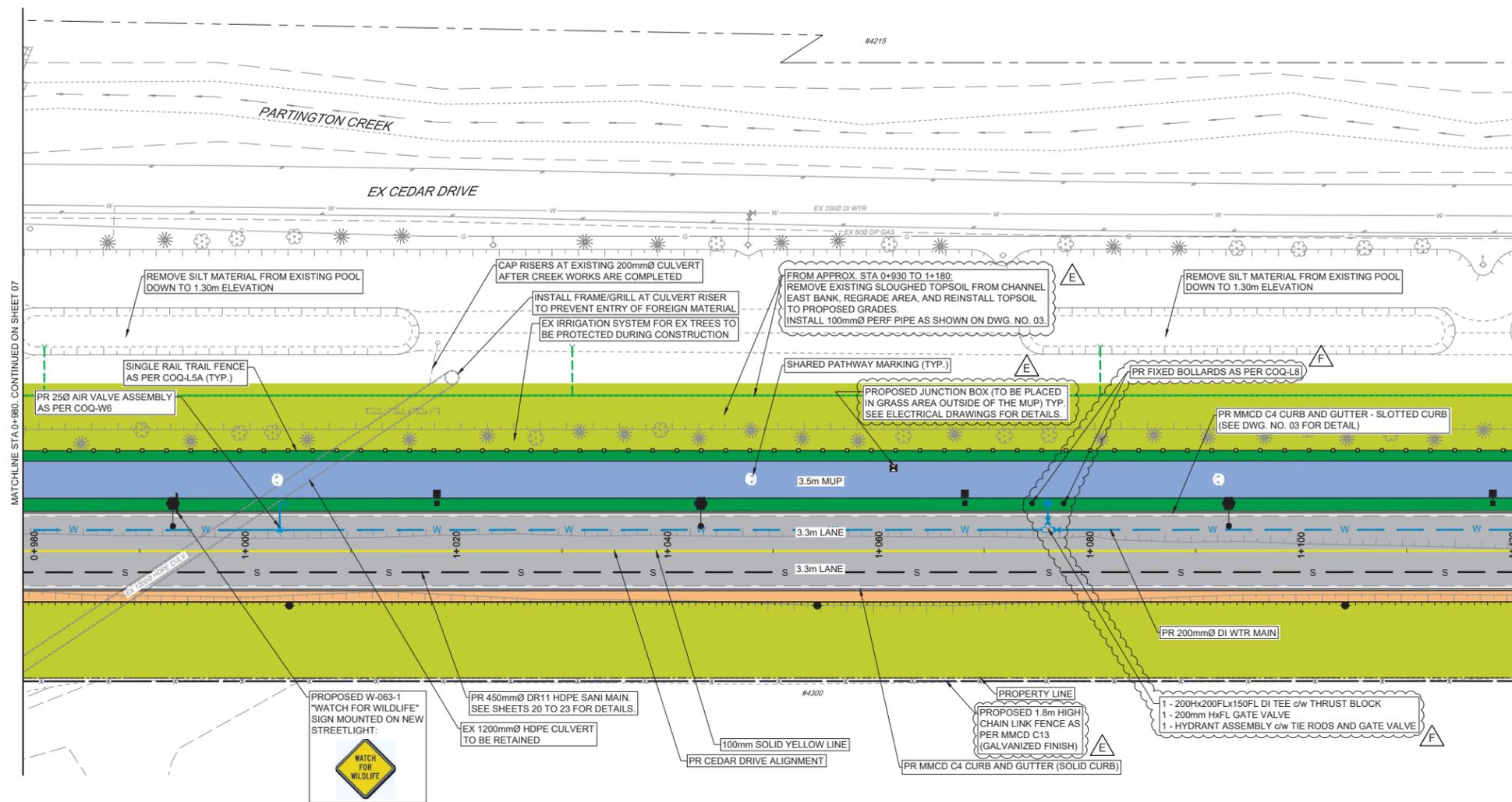
**STA 0+720 TO 0+840
CEDAR DRIVE UPGRADES - PHASE 2**



ADDENDUM #3 DESIGN NO.

SCALE	1:250	CREATION DATE	OCT - 2023	DWG. NO.
DRAWN BY	GA	DESIGN BY	CJB	06 OF 42
CHECKED BY	CJB	APPROVED BY	CJB	REV. F

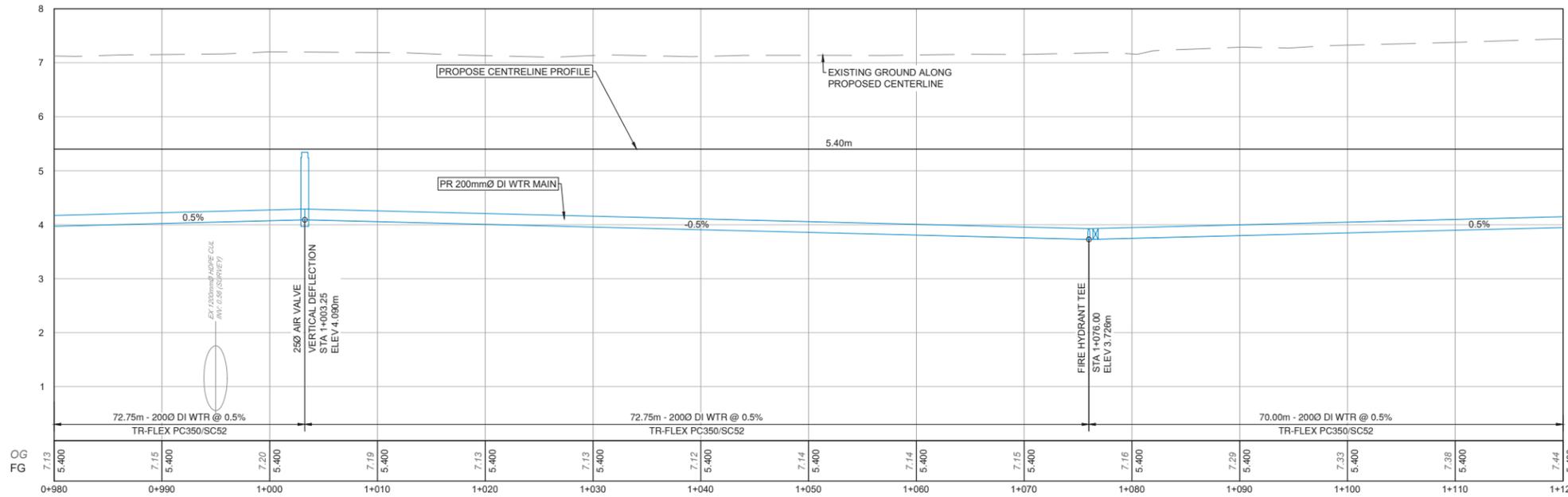
33527



- SURFACE TREATMENT**
- ROAD SURFACE:**
 - 50 mm TOP LIFT ASPHALT (UPPER COURSE #1)
 - 50 mm BASE LIFT (LOWER COURSE #1)
 - 150 mm OF 19mm MINUS GRANULAR BASE
 - 200mm OF 75mm MINUS GRANULAR SUBBASE
 - MULTI-USE PATH:**
 - 50mm HOT MIX ASPHALT (UPPER COURSE #2)
 - 100mm OF 19mm MINUS GRANULAR BASE
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 - 100mm TOPSOIL AND HYDROSEED**
 - CONCRETE**
 - RIPARIAN PLANTING**
 - SEE SHEETS 27 TO 32 FOR DETAILS

SUPERELEVATION TABLE

CEDAR DRIVE		
Station	Left Lane	Right Lane
0+670.00m	-3.00%	3.00%
1+380.00m	-3.00%	3.00%



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PLOT DATE: May 5, 2025

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
B	UPDATED DETAILED DESIGN	2023/11/24	GA	CJB
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ROAD + WATER

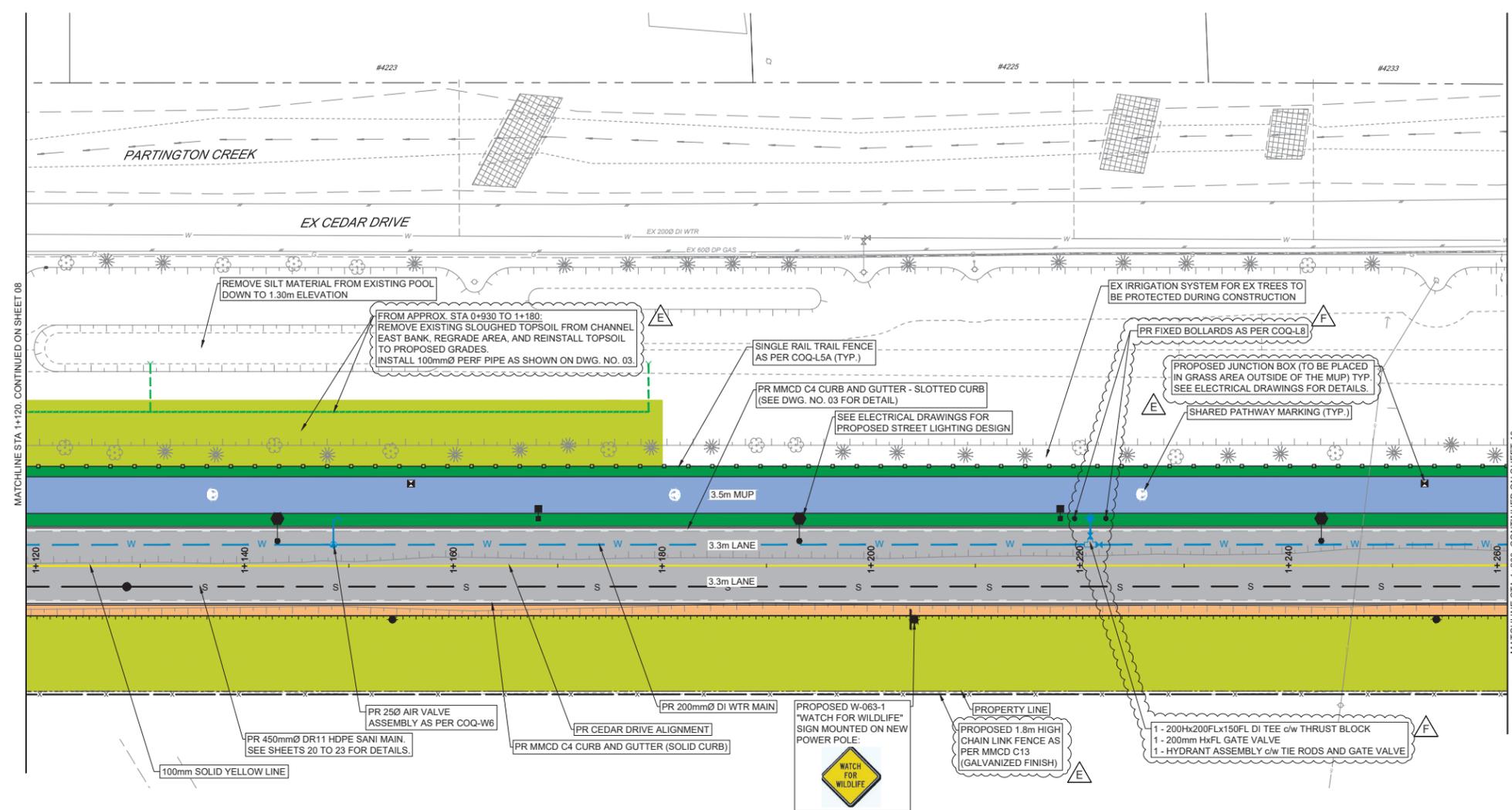
**STA 0+980 TO 1+120
CEDAR DRIVE UPGRADES - PHASE 2**



ADDENDUM #3 DESIGN NO.

SCALE	1:250	CREATION DATE	OCT - 2023	DWG. NO.
DRAWN BY	GA	DESIGN BY	CJB	08 OF 42
CHECKED BY	CJB	APPROVED BY	CJB	REV. F

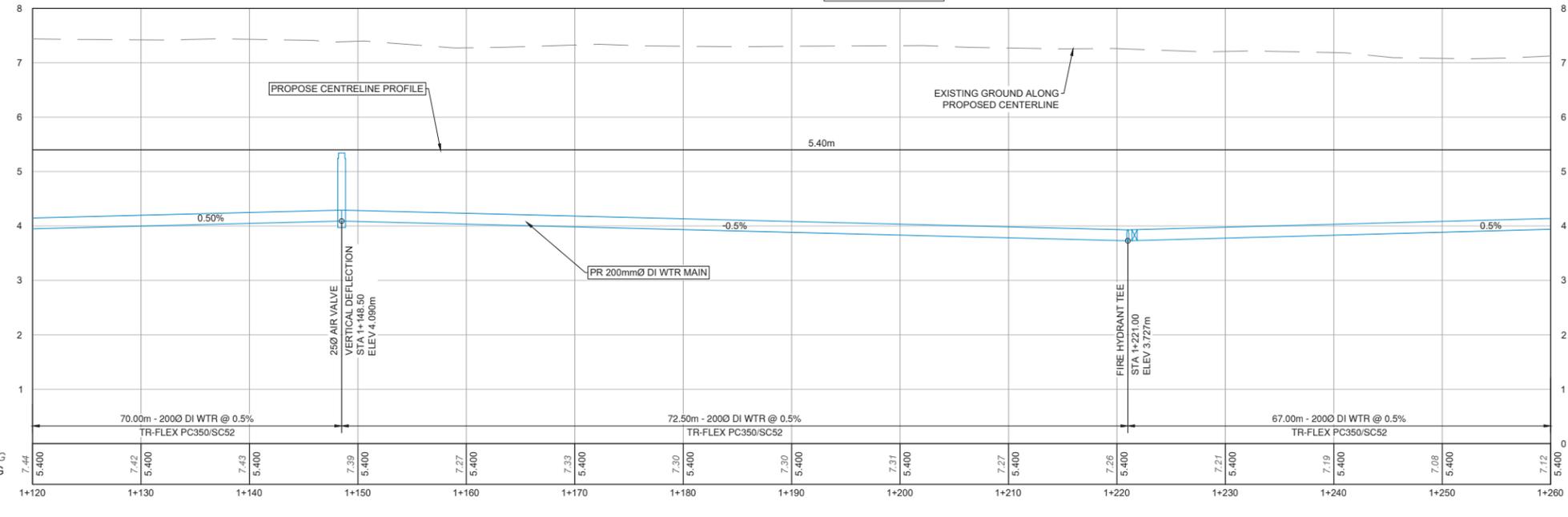
33527



- SURFACE TREATMENT**
- ROAD SURFACE:**
 - 50 mm TOP LIFT ASPHALT (UPPER COURSE #1)
 - 50 mm BASE LIFT (LOWER COURSE #1)
 - 150 mm OF 19mm MINUS GRANULAR BASE
 - 200mm OF 75mm MINUS GRANULAR SUBBASE
 - MULTI-USE PATH:**
 - 50mm HOT MIX ASPHALT (UPPER COURSE #2)
 - 100mm OF 19mm MINUS GRANULAR BASE
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 - 100mm TOPSOIL AND HYDROSEED**
 - CONCRETE**
 - RIPARIAN PLANTING**
 - SEE SHEETS 27 TO 32 FOR DETAILS

SUPERELEVATION TABLE

CEDAR DRIVE			
Station	Left Lane	Right Lane	
0+670.00m	-3.00%	3.00%	
1+380.00m	-3.00%	3.00%	



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PLOT DATE: May 5, 2025

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F	ADDENDUM #3	2025/05/05	GA	CJB



ROAD + WATER

STA 1+120 TO 1+260
CEDAR DRIVE UPGRADES - PHASE 2

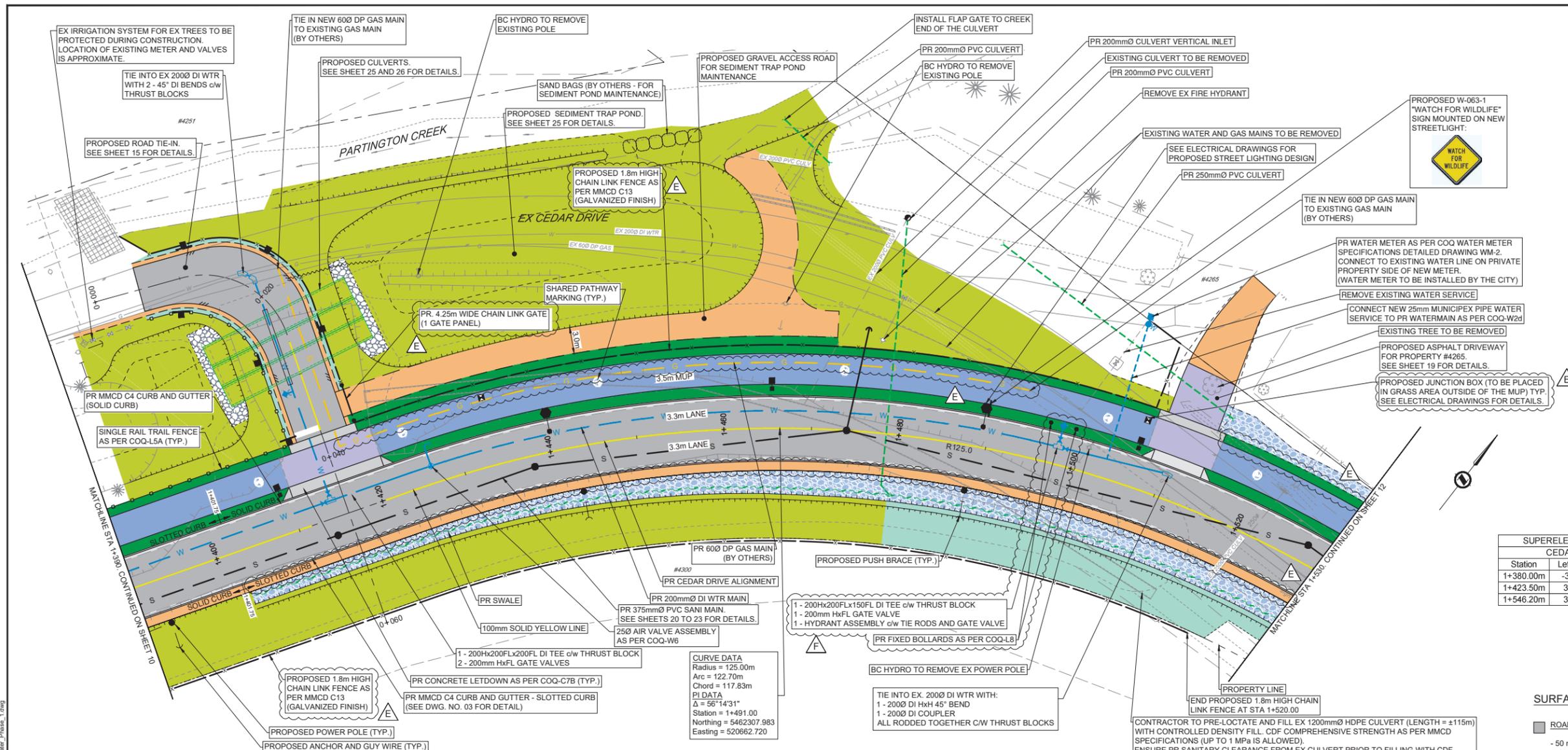


#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: 604-663-2996 F: 604-663-2999
2025-05-05

ADDENDUM #3 DESIGN NO.

33527

SCALE	1:250	CREATION DATE	OCT - 2023	DWG. NO.
DRAWN BY	GA	DESIGN BY	CJB	09 OF 42
CHECKED BY	CJB	APPROVED BY	CJB	REV. F

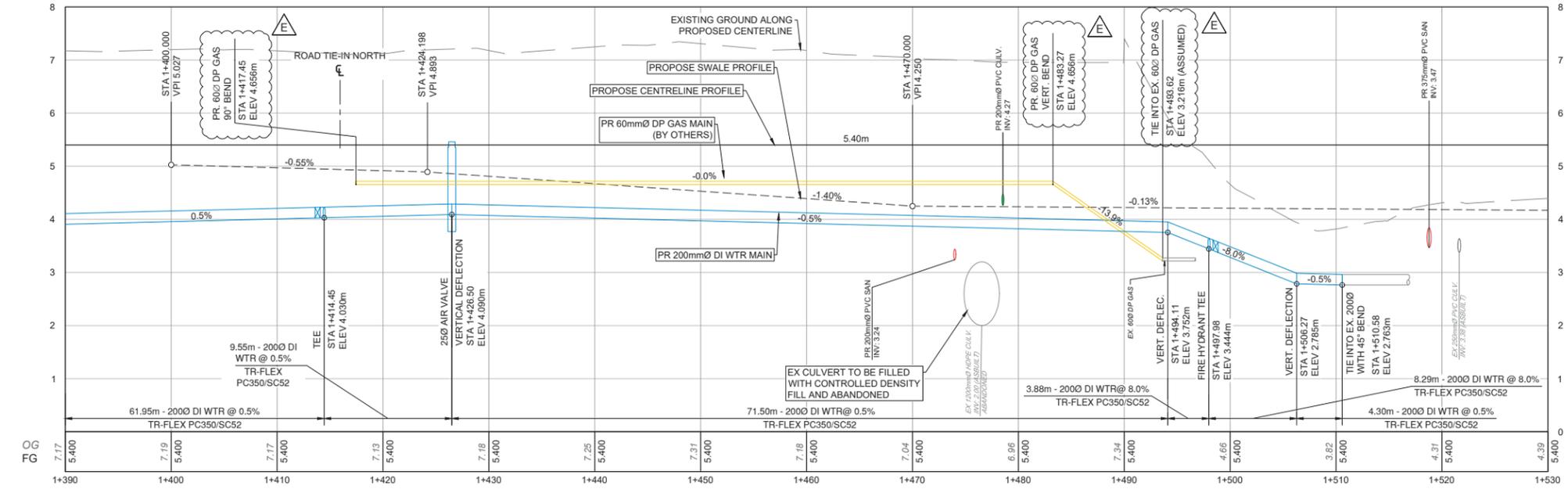


SUPERELEVATION TABLE

CEDAR DRIVE		
Station	Left Lane	Right Lane
1+380.00m	-3.00%	3.00%
1+423.50m	3.00%	-3.00%
1+546.20m	3.00%	-3.00%

SURFACE TREATMENT

- ROAD SURFACE:**
 - 50 mm TOP LIFT ASPHALT (UPPER COURSE #1)
 - 50 mm BASE LIFT (LOWER COURSE #1)
 - 150 mm OF 19mm MINUS GRANULAR BASE
 - 200mm OF 75mm MINUS GRANULAR SUBBASE
 - MULTI-USE PATH:**
 - 50mm HOT MIX ASPHALT (UPPER COURSE #2)
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 - 150mm TOPSOIL AND SODDING**
 - 100mm TOPSOIL AND HYDROSEED**
 - CONCRETE**
 - RIPARIAN PLANTING**
- SEE SHEETS 27 TO 32 FOR DETAILS



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 PLOT DATE: May 5, 2025

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
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F	ADDENDUM #3	2025/05/05	GA	CJB



ROAD + WATER
STA 1+390 TO 1+530
CEDAR DRIVE UPGRADES - PHASE 2



ADDENDUM #3 DESIGN NO.

33527

SCALE	CREATION DATE	DWG. NO.
1:250	OCT - 2023	11 OF 42
DRAWN BY: GA	DESIGN BY: CJB	REV: F
CHECKED BY: CJB	APPROVED BY: CJB	

#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
 T: 604-663-5995 F: 604-663-2888

ENVIRONMENTAL SETTING AND CONTEXT:

Cedar Drive is being upgraded and Partington Creek is being widened and an off-channel habitat created to improve flow conveyance and mitigate flood risk. Road construction and Creek widening will affect the riparian areas around Partington Creek. The riparian areas have already been affected by urban development, but in order to secure DFO Authorization and Ministry Approval, it was necessary to develop OFFSETTING measures to address riparian impacts.

This OFF-SETTING/PLANTING PLAN is intended to address riparian effects associated with road construction, channel widening and off-channel creation in and around Partington Creek.

The OFF-SETTING plan is intended in the medium and long term to provide shade cover which will mitigate the loss of shade cover associated with the channel widening activities. The off-channel habitat is intended to provide improved rearing conditions for fish inhabiting Partington Creek.

Implementation of the plan will also improve leaf drop, large woody debris (LWD), coarse woody debris (CWD), insect inputs, etc. to Partington Creek.

The zones designated for planting vary from upland to lowland bench. Site preparation prescriptions vary between upland and lowland. ISL has specified plant species that are best suited to zone and microsite. Protection, maintenance, and plant survival inspections will be required if the planted stock is to survive and thrive.

ACCESS MANAGEMENT AND SITE PREPARATION:

- SITE PREPARATION WILL BE UNDERTAKEN ONLY UNDER THE FULL-TIME SUPERVISION OF THE EM.
- PLANTING SITE PREPARATION MUST NOT BE UNDERTAKEN WITHOUT THE EM ON-SITE.
- PRIOR TO CONSTRUCTION THE ENVIRONMENTAL MONITOR (EM) MUST DEMARCATHE THE BOUNDARY OF THE APPROVED WORK ZONE, PER THIS PLAN. THE EM WILL FLAG 'LOCK OUT ZONES' WHERE THERE WILL BE NO DISTURBANCE OF EXISTING VEGETATION.
- THE FLAGGED BOUNDARY WILL BE POSTED WITH TEMPORARY SIGNAGE INDICATING THAT THERE IS TO BE NO DISTURBANCE OF ANY KIND BEYOND THE FENCED BOUNDARY.
- THE EM WILL MONITOR THE BOUNDARY AT REGULAR INTERVALS TO CONFIRM THAT WORKERS HAVE NOT EXTENDED CONSTRUCTION BEYOND THE DEMARCATED BOUNDARY.
- MACHINERY IS TO BE OPERATED FROM SWAMP PADS IF TERRAIN IS TOO UNSTABLE TO SUPPORT MACHINE TRACKS.
- THE CONTRACTOR MUST NOT OPERATE MACHINERY OUTSIDE OF AREAS SHOWN ON THIS PLAN AND THERE IS TO BE NO WORK WITHIN PARTINGTON CREEK, UNTIL SUCH TIME AS FISH SALVAGE HAS BEEN COMPLETED, SITE IS ISOLATED, AND BYPASS AND DEWATERING HAS BEEN IMPLEMENTED.

INVASIVE PLANT MANAGEMENT:

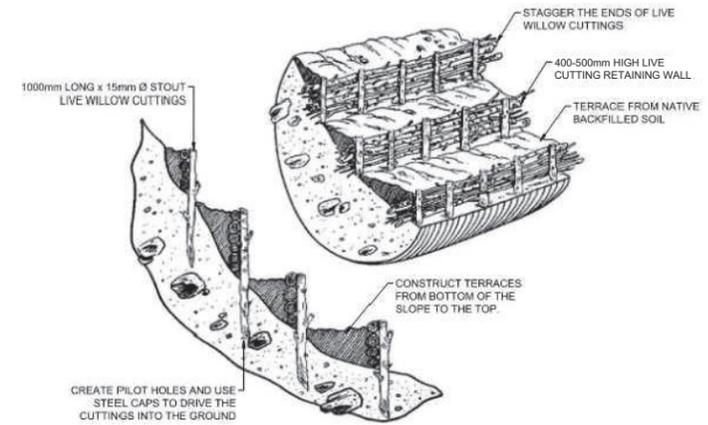
- SITE PREPARATION WILL BE UNDERTAKEN ONLY UNDER THE FULL-TIME SUPERVISION OF THE EM.
- HIMALAYAN BLACKBERRY AND REED CANARY GRASS WILL BE EXCAVATED TO ROOTING DEPTH EXPOSING UNDERLYING MINERAL SOILS THAT ARE FREE OF ROOT MATERIAL.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING THE DEPTH OF THE EXCAVATION NECESSARY TO EXPOSE ROOT FREE SOIL.
- JAPANESE KNOTWEED HAS BEEN IDENTIFIED AT VARIOUS LOCATIONS ALONG THE EXISTING EMBANKMENT OF PARTINGTON CREEK.
- THE EM IS RESPONSIBLE FOR FLAGGING THE PERIMETER OF THESE AREAS PRIOR TO VEGETATION OR GROUND DISTURBANCE ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING A JAPANESE KNOTWEED REMOVAL AND CONTROL PROGRAM.
- THE CONTRACTOR IS CAUTIONED THAT THE DEPTH AND BREADTH OF EXCAVATION NECESSARY TO REMOVE JAPANESE KNOTWEED IS SUBSTANTIAL.
- THE CONTRACTOR WILL RETAIN THE SERVICES OF A QUALIFIED PROFESSIONAL WHO CAN ADVISE THE CONTRACTOR ON THE STANDARDS FOR REMOVAL, DEEP BURIAL, AND/OR LEGAL OFFSITE DISPOSAL OPTIONS SO THAT THEY APPROPRIATELY PRICE THIS IMPORTANT COMPONENT OF THE PROJECT.
- NO CHANGE ORDERS WILL BE ENTERTAINED FOR JAPANESE KNOTWEED REMOVAL, CONTROL AND DISPOSAL, BEYOND THAT AMOUNT SET OUT BY THE CONTRACTOR IN THEIR RESPONSE TO THE PROJECT TENDER.

SOIL STABILIZATION/SEED MIX APPLICATION:

- IMMEDIATELY UPON COMPLETION OF FINE GRADING, ALL PLANTING AREAS MUST BE STABILIZED PER THE FOLLOWING DESCRIPTION:
- THE CONTRACTOR WILL APPLY A FULLY BIODEGRADABLE EROSION CONTROL BLANKET ON ALL INSTREAM BENCHES AND EARTHEN SLOPES BELOW THE NEW TOP OF BANK.
- THE EROSION CONTROL BLANKET (ECB) MUST BE SECURED TO THE GROUND PER MANUFACTURERS SPECIFICATIONS. TO PREVENT SLOPE RILLING, THERE MUST BE NO VOID SPACE BETWEEN GROUND AND THE ECB.

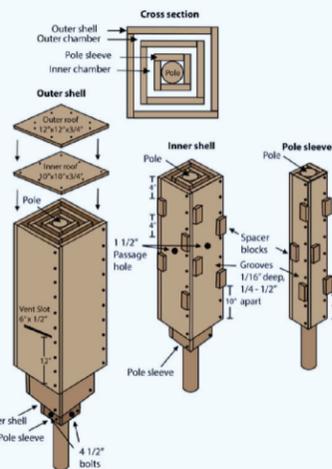
LANDSCAPE NOTES:

- WARRANTY**
 - THE PROJECT REQUIRES A TWO YEAR WARRANTY ON ALL SOFTSCAPE WORK.
 - THE WARRANTY PHASE WILL COMMENCE AT THE TIME OF SUBSTANTIAL COMPLETION OF THE TOTAL CONTRACT. DURING THIS PHASE THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING PLANT SURVIVAL AT 100% FOR THE TOTAL NUMBER OF PLANTED TREES AND 80% FOR THE SHRUBS SHOWN IN THE PLANS.
 - ESTABLISHMENT MAINTENANCE OF SOFT LANDSCAPES IS TO BE PROVIDED FROM TIME OF INSTALLATION TO TWO YEARS FROM SUBSTANTIAL COMPLETION OF WORKS.
 - THE CONTRACTOR WILL RETAIN A CEP TO COMPLETE POST CONSTRUCTION PLANT MAINTENANCE INSPECTION TWICE PER ANNUM BY APRIL 15 AND SEPTEMBER 1. RESULTS WILL BE REPORTED BY MAY 15 AND SEPTEMBER 15.
 - THE CONTRACTOR WILL CONTROL COMPETING VEGETATION (I.E. LONG GRASS, INVASIVES ETC) TWICE PER ANNUM BY SOLELY MECHANICAL MEANS.
 - THE CONTRACTOR WILL REPLACE, AS REQUIRED, PROTECTIVE SMALL MAMMAL GUARDS ON PLANTED TREE STOCK.
 - THE CONTRACTOR WILL WATER PLANTS WEEKLY FROM JUNE 15 TO SEPTEMBER 15 FOR THE FIRST TWO YEARS AFTER PLANT INSTALLATION.
 - THE CONTRACTOR WILL REPLACE DEAD OR MISSING PLANT MATERIAL IN THE SPRING AND FALL SEASON.
 - SHOULD PLANT SURVIVORSHIP TARGETS NOT BE ACHIEVED, THE CONTRACTOR IS REQUIRED TO BEAR THE COSTS OF REPLACEMENT PLANTING AND WHATEVER MAINTENANCE EFFORTS (CONTROL OF COMPETING PLANTS, WATERING, SOIL PREPARATION ETC)
- PERMITS**
 - CONTRACTOR TO PROVIDE THE FOLLOWING PERMITS: REFER TO TENDER DOCUMENTS
- FIELD LAYOUT AND SURVEY COORDINATION**
 - SITE LAYOUT TO BE BASED ON TSS (TOTAL STATIONING SURVEY) OR APPROVED EQUAL GPS METHOD TO ENSURE ACCURACY IN LAYOUT.
 - SITE LAYOUT AND SURVEY FILES CAN BE PROVIDED TO THE CONTRACTOR IN AUTOCAD FORMAT AT THE TIME OF CONSTRUCTION START-UP.
- SITE MOBILIZATION, STAGING, AND SAFETY**
 - PROVIDE MOD-U-LOCK FENCE OR APPROVED EQUAL AROUND THE LIMIT OF CONSTRUCTION AND PROTECT THE SITE AT ALL TIMES FROM PUBLIC ACCESS.
 - PROVIDE INFORMATION ON INTENDED SITE STORAGE AND STAGING AREA(S) AND HAULING AT CONSTRUCTION START-UP. IF STORAGE OR STAGING AREA(S) ARE TO BE MOVED BETWEEN DIFFERENT PHASES OF WORK, INFORM OWNER AND CONTRACT ADMINISTRATOR AT CONSTRUCTION START-UP WITH MARKED UP PLANS.
 - PROVIDE PROOF OF A BC-ONE (BC-1) CALL AT THE TIME OF CONSTRUCTION START-UP MEETING.
 - ENSURE ESC (EROSION AND SEDIMENT CONTROL) MEASURES HAVE BEEN REVIEWED PRIOR TO COMMENCING DEMOLITION OR EXCAVATION WORKS OF THE SITE. AMEND ANY ESC RELATED REQUESTS FROM THE EM IMMEDIATELY. PROVIDE PHOTO PROOF AND EMAIL CONFIRMATION TO THE CONTRACT ADMINISTRATOR AND ENVIRONMENTAL CONSULTANT FOR APPROVAL PRIOR TO COMMENCING WORK.
 - ENSURE TREE PROTECTION FENCING HAS BEEN REVIEWED PRIOR TO COMMENCING WORK.
- SOFT LANDSCAPES**
 - SOFT LANDSCAPE SUPPLY, SUBMITTALS, PREPARATION AND EXECUTION TO COMPLY WITH CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA). FULL DOCUMENT APPLIES.
 - ENSURE CONTRACTOR INSTALLING SOFT LANDSCAPES HAS A CURRENT COPY OF THE CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA) PRESENT ON SITE.
 - SUBMIT REQUEST FOR REVIEW BY CONSULTANT OF SITE SOFT LANDSCAPE FINE GRADING PRIOR TO INSTALLATION OF PLANT MATERIAL.
 - PLANTS AND TREES:
 - PROVIDE CONSULTANT WITH OPPORTUNITY TO REVIEW PLANT STOCK AT NURSERY PRIOR TO SHIPMENT TO SITE. CONSULTANT RESERVES RIGHT TO REJECT STOCK ON SITE WHEN INCONSISTENT FROM NURSERY SAMPLE STOCK. PROVIDE CONSULTANT OPPORTUNITY TO REVIEW TREES AT NURSERY AND TAG PREFERRED TREE STOCK FOR THE PROJECT THAT COMPLIES WITH DRAWING SIZE, SPECIES, AND FORM. ONE (1) WEEK NOTICE IS REQUIRED FOR NURSERY REVIEW.
 - PLANTS TO BE WELL-ESTABLISHED AND UNIFORM IN SIZE. ALL PLANTS TO CONFORM TO THE STANDARDS SPECIFIED IN THE LATEST EDITION OF THE CANADIAN LANDSCAPE AND NURSERY ASSOCIATION STANDARD.
 - GROWING MEDIUM TO BE TYPE 2P AS PER CANADIAN LANDSCAPE STANDARD. GROWING MEDIUM DEPTHS AS PER CONSTRUCTION DETAILS. ALL GROWING MEDIUM TO CONFORM TO CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS. CONTRACTOR TO PROVIDE CONSULTANT WITH 1 LITER SAMPLE OF GROWING MEDIUM, FROM IDENTICAL SOURCE AS WILL BE USED ON SITE, AT LEAST 6 WEEKS PRIOR TO INSTALLATION.
 - SUBMIT GROWING MEDIUM REPORT FOR REVIEW PRIOR TO ORDER OR INSTALLATION.
 - ALL PLANTING TO OCCUR IN THE PERIOD OF MARCH 15 TO MAY 1 OR SEPTEMBER 1 TO NOVEMBER 1.
 - MULCH:
 - TO BE COMPOSTED BARK, BROWN (NOT RED) IN COLOUR.
 - MULCH TO BE COMPLIANT WITH MMCD 32 93 01.
 - A ONE (1) LITRE MULCH SUBMITTAL IS REQUIRED FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
 - DEPTH OF MULCH TO BE 100mm AFTER SETTLEMENT WITH COMPLETE COVERAGE.
 - PROVIDE MULCH RING OF 1.2M DIAMETER AND COMPLIANT WITH BC LANDSCAPE STANDARDS FOR EACH NEW TREE.
 - THE CONSULTANT MAY REQUEST, AT THE CONTRACTOR'S EXPENSE, UP TO TWO TESTS OF GROWING MEDIUM IF SUSPECTED INCONSISTENCIES APPEAR. TESTS SAMPLES WILL BE SUBMITTED TO PACIFIC SOIL ANALYSIS INC. IN RICHMOND BC, SUITE 5 11720 VOYAGEUR WAY, RICHMOND, BC, V6X 3G9.
 - ESTABLISHMENT MAINTENANCE AND WATERING: REFER TO SECTION 1.0 OF THESE LANDSCAPE NOTES.
- STREAM BED INSTALLATION**
 - INSTALLATION OF CHANNEL SUBSTRATE AND THALWEG TO OCCUR UNDER FULL-TIME SUPERVISION OF EM



1 TYPICAL WATTLE FENCE PLANTING DETAIL NTS

TWO-CHAMBER ROCKET BOX



2 TWO CHAMBER BAT BOX TYPICAL DETAIL NTS

BAT BOX NOTES:

- GENERAL NOTES**
 - ALL BAT BOXES WILL BE TWO-CHAMBERED ROCKET BOXES CONSTRUCTED TO THE ATTACHED SPECIFICATIONS.
 - THE BAT BOX OUTER ROOF MUST BE COMPLETELY WATERPROOF.
 - THE BAT BOX EXTERIOR MUST BE BLACK OR DARK IN COLOUR.
 - EACH BAT BOX SHALL HAVE MULTIPLE NAILS INSTALLED ON THE ROOF TO PREVENT AERIAL PREDATOR PERCHING.
- MATERIAL NOTES**
 - ALL BAT BOXES MUST BE CONSTRUCTED OF CEDAR OR EXTERIOR-GRADE PLYWOOD.
 - PLYWOOD MUST BE MINIMUM 3/4" THICK AND AT LEAST 4 PLYS.
 - NO PRESSURE-TREATED WOOD IS PERMITTED TO BE USED.
 - EXTERIOR-GRADE SCREWS, NAILS, STAPLES AND HARDWARE IS TO BE USED.
 - POLES MUST BE MADE OF STEEL. ANY POLE MATERIAL SUBSTITUTIONS MUST BE SUBMITTED TO CONTRACT ADMINISTRATOR FOR APPROVAL PRIOR TO MATERIAL ORDERING.
 - ALL CRACKS AND SEAMS MUST BE CAULKED TO PREVENT WATER INTRUSION.
 - EXTERIOR SURFACE OF THE BOX MUST BE STAINED BLACK OR A DARK COLOUR USING A WATER-BASED, NON-TOXIC STAIN (TALL EARTH OR APPROVED EQUIVALENT). OIL-BASED PAINTS OR STAINS WITH STRONG ODOURS OR VOLATILE ORGANIC COMPOUNDS (VOCs) ARE NOT ACCEPTABLE. STAIN MUST BE SUBMITTED TO CONTRACT ADMINISTRATOR FOR APPROVAL PRIOR TO ORDERING.
 - ALL INTERIOR SURFACES OF THE BOX MUST BE NOT BE STAINED.
- BAT BOX MOUNTING AND LOCATION SPECIFICATIONS**
 - ALL BAT BOXES MUST BE MOUNTED ON A MINIMUM 20' POLE.
 - THE BASE OF THE BAT BOX MUST BE A MINIMUM OF 12" AND MAXIMUM OF 20" FROM THE GROUND WHEN MOUNTED ON THE POLE.
 - THE POLE MUST BE DRIVEN A MINIMUM OF 4' DEPTH INTO THE GROUND.
 - EACH BAT BOX MUST BE MOUNTED SO THAT IT IS SOUTH FACING AND RECIEVES A MINIMUM OF 6 HOURS OF DIRECT SUN.
 - BAT BOXES MUST BE PLACED IN AN UNCLUTTERED LOCATION SUCH THAT THERE ARE NO OBSTRUCTIONS AROUND THE BOX ENTRANCE FOR AT LEAST 3 METERS IN ALL DIRECTIONS.
 - BAT BOXES MUST BE PLACED AWAY FROM ROADS, LIGHTS AND AREAS OF HIGH WIND.
 - BAT BOXES MUST BE PLACED WITHIN 400 M OF A STREAM, RIVER, LAKE, OR POND.
 - BAT BOXES MUST BE AT LEAST 6 METERS AWAY FROM ALL TREE BRANCHES OR WIRES.
 - BAT BOXES SHALL BE PLACED AWAY FROM AREAS OF HIGH HUMAN ACTIVITY (E.G. PUBLIC WALKING PATHS, PARKS, ETC.) TO PREVENT POTENTIAL HUMAN INTERACTION WITH BATS.
 - VEGETATION GROWTH MUST BE TAKEN INTO CONSIDERATION WHEN PLACING BAT BOXES SUCH THAT ALL OF THE ABOVE SPECIFICATIONS WILL CONTINUE TO BE MET INTO THE FUTURE.



ADDENDUM #3 DESIGN NO.

33527

PLOT DATE: April 28, 2025

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2025/04/07	ML	AR
B	ADDENDUM #2	2025/04/24	ML	AR
C	ADDENDUM #3	2025/05/05	EH	AR



PARTINGTON CREEK ENHANCEMENT HABITAT
CEDAR DRIVE UPGRADES - PHASE 2



#503, 4190 Lougheed Hwy, Burnaby, B.C. V5C 6A8
T: (604)625-2856 F: (604)625-2888

SCALE	AS SHOWN	CREATION DATE	NOV - 2023
DRAWN BY	ML	DESIGN BY	AR
CHECKED BY	AR	APPROVED BY	AR

DWG. NO. 27 OF 42
REV. C

File: C:\MSK\ACCD\04\1813\3026_COO_Cedar Drive-Phase1 Roadworks\Project Files\02_Drafting\203_Sheets\Phase 1 and 2_Cedar Drive Upgrades\2628_SH_Environmental Planting_Phase_1.dwg