Coquitlam

**Addendum No. 2**

**City of Coquitlam**

**Tender No. 81832 - Phase 2**
**Cedar Drive Upgrades - Sanitary Pump Station to Gilleys Trail**
(Consists of 44 Pages)

Issue Date: April 25, 2025

Tenderers shall note the following changes:

**Revisions**

1. **Refer to: Invitation to Tender and Instructions to Tenderers, Submission of Tenders**

   **Tender Closing Date Extension to Tuesday, May 13, 2025**

   "Tenders must be received on or before:

   **Tender Closing Time: 2:00 p.m. local time**
   **Tender Closing Date: Tuesday, May 13, 2025"**

2. **Refer to: Instructions to Tenderers**

   **Inquiry Deadline Extension to Thursday, May 8, 2025.**

   "The deadline for inquiries is **2:00 PM** local time, **Thursday, May 8, 2025.**"

3. **Refer to: FORM OF TENDER**

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

   **REPLACE with: *Revised* – Appendix 1 – Revision No. 2**

4. **Refer to: SUPPLEMENTARY CONTRACT SPECIFICATIONS, Section 32 91 21S (TOP SOIL AND FINISH GRADING)**

   **Delete Clause 1.4.1 and replace with the following:**

Payment includes supply and installation growing medium, bark mulch and imported top soil that is free from any noxious weeds, fungal growth, mushroom, and any contaminants. Payment will be made separately and includes supply of material, on-site handling, preparing the landscape area subgrade, placing as specified, grading, raking, compacting top soil and application of fertilizers. Payment for growing medium will be for actual volume placed onsite.

## 5. Refer to: SUPPLEMENTARY CONTRACT SPECIFICATIONS

### Add Section 33 40 01S (STORM SEWERS)

| | | | |
|---|---|---|---|
| **1.6** | **Measurement and Payment** | Delete 1.6.1 and<br><br>replace with the following | Payment for storm sewer will be made at the unit price bid for storm sewer (regardless of depth) consistent with pipe materials, diameters and backfill requirements shown on the Contract Drawings and described under individual payment items in the Schedule of Quantities. |
| | | Delete 1.6.2 and<br><br>replace with the following | Payment for storm sewers includes trench excavation, dewatering, bypass pumping, on-site reuse of surplus/displaced material, removal and disposal of existing pipes, supply and installation of all pipe, wyes, cap, fittings and related materials, tie-ins to existing or new storm pipe or manhole other than noted in Clause 1.6.9, construction joints, bedding, import backfill, native backfill, , granular base, granular Subbase, cleaning and flushing, testing (if applicable), videoing and all other work and materials necessary to complete installation as shown on Contract Drawings and specified under this Section; and<br><br>Measurement for storm sewer will be made horizontally from manhole centerline to manhole centerline over surface work has been completed.<br><br>Native excavated material approved for re-use as trench backfill shall be at the sole discretion of the Contract Administrator. All cobbles greater than 150 mm diameter removed and disposed off-site and shall be granular in nature and free from organic materials. Native excavated material shall not be used as trench backfill where moisture content does not permit compaction to specified density. Where native excavated material is unacceptable for use as trench backfill, imported trench backfill shall be supplied, placed, and compacted to specified density. |

| | | | |
|---|---|---|---|
| | | | Payment for concrete driveway and curb & gutter will be made under Section 03 30 20S. |
| | | | Payment includes by-pass pumping to include all pumps, labour and materials required to facilitate the work. Payment for the by-pass pumping will be incidental. Measurement for storm sewer will be made along the ground from the start of new pvc pipe to the terminus of the new pvc pipe. |
| | | Delete 1.6.4 and replace with | Payment includes support of poles if necessary and manhole barrel preparation to accommodate the service connection. |
| | | Delete 1.6.6 and<br>replace with the following | Payment for perforated drain pipe includes applicable materials and work described in 1.6.2 of this Section and will be made separately for each size of pipe and will include drain pipes, drain rock and filter fabric, surround and daylighting as shown in Contract Drawings. Payment will be made for the lineal meters of perforated PVC pipe installed. |
| **2.0** | **PRODUCTS** | | |
| **2.2** | **PVC Pipe, Mainline Smooth Wall** | Delete 2.2.1 pipe size ranges and replace with the following | 200 mm dia. – 375 mm dia. to ASTM D3034<br>450 mm dia. – 1,200 mm dia. to ASTM F679 |
| **2.3** | **PVC Pipe, Mainline Profile** | Delete 2.3 | |
| **2.6** | **Service Connections** | Delete 2.6.1 and replace with the following | Storm service connections to be PVC DR 28 150 mm diameter minimum or as specified on *Contract Drawings*. |
| | | Delete 2.6.8.1 | |
| | | Delete 2.6.8.2 and replace with the following | Connections to PVC pipe to be made with a performed wye fitting where mainline pipe is 300 mm diameter or smaller. For connections to PVC mainline pipe larger than 300 mm diameter an insertable tee for PVC pipe is permitted. |
| | | Add 2.6.8.3 | Insertable tee fitting shall have a rubber collar which inserts into the mainline pipe to form a tight seal and shall have stainless steel band to secure the tee insert. The tee insert shall be a standard bell end with depth control lugs. The joint shall provide a minimum seal of 90 kPa on concrete and polyethylene pipe, and 190 kPa on PVC pipe. |
| **2.9** | **Granular Pipe Bedding and Surround Material** | Delete 2.9.3 | Pipe bedding shall be 19 mm clear crushed rock or as approved by the *Contract Administrator* and the City. |

| | | | |
|---|---|---|---|
| **3.0** | **EXECUTION** | | |
| **3.8** | **Connections to Existing Mainline Pipe** | Delete 3.8.3 and replace with the following | For new connections to existing, smooth wall or profile, mainline sewers 300 mm and smaller, shall be made by removal of the section of the main and replacement with a preformed PVC wye fitting complete with stubs and double hub PVC couplings for PVC mains and approved shear band couplings for other mainline materials.<br><br>For new connections to existing mainline greater than 300 mm, use of insertable tee will be permitted. |
| **3.10** | **Service Connection Installation** | Delete 3.10.3 replace with the following | Inspection chambers shall be provided on all storm service connections as per Standard Detail Drawing S7. If inspection chamber is located in driveway, lane, or paved surface, Series 37 Brooks concrete box with lid shall be installed as per Standard Detail Drawing S9. |
| **3.12** | **Inspection and Testing** | | The contractor shall video inspect completed storm sewers under 900 mm in diameter and all service connections following completion of the installation. The video inspection report shall be in a form specified by the Contract Administrator and the City. Copies of the video DVD and written report shall be forwarded to the Contract Administrator and the City. Refer to Section 33 01 30.1 and 33 01 30.1S CCTV Inspection of Pipelines. |
| **3.16** | **Permanent Capping of Service Connections** | Add 3.16.1 | Permanent capping of existing storm sewer connections to be completed as per Coquitlam Standard Detail Drawing COQ-S18. |
| | | Add 3.16.2 | A trenchless method of permanently capping a service may be required on an arterial road or on a road which has been paved within 5 years, as directed by the Manager.<br><br>The trenchless technology used to cap the service must be approved by the Manager. |

**END OF SECTION**

## 6. Refer to: APPENDIX B - Traffic and Construction Staging Plan

### REMOVE: Page TCSP 1

### REPLACE with: Revised TCSP 1

## 7. Refer to: Agreement, Schedule 2, List of Drawings

### REMOVE

| TITLE | CONSULTANT | SHEET NO. | REVISION NO. | DATE |
|---|---|---|---|---|
| COVER – CEDAR DRIVE UPGRADES – PHASE 2 | ISL | 00 | | |
| ROAD WORKS: TYPICAL SECTIONS | ISL | 03 | D | 2025/04/03 |
| ROAD WORKS: TYPICAL SECTIONS | ISL | 04 | D | 2025/04/03 |
| ROAD + WATER: STA 0+580 TO 0+720 | ISL | 05 | D | 2025/04/03 |
| ROAD + WATER: STA 0+720 TO 0+840 | ISL | 06 | D | 2025/04/03 |
| ROAD + WATER: STA 0+840 TO 0+980 | ISL | 07 | D | 2025/04/03 |
| ROAD + WATER: STA 0+980 TO 1+120 | ISL | 08 | D | 2025/04/03 |
| ROAD + WATER: STA 1+120 TO 1+260 | ISL | 09 | D | 2025/04/03 |
| ROAD + WATER: STA 1+260 TO 1+390 | ISL | 10 | D | 2025/04/03 |
| ROAD + WATER: STA 1+390 TO 1+530 | ISL | 11 | D | 2025/04/03 |
| ROAD + WATER: STA 1+530 TO 1+670 | ISL | 12 | D | 2025/04/03 |
| ROAD + WATER: ROAD TIE-IN SOUTH | ISL | 14 | D | 2025/03/18 |
| ROAD + WATER: ROAD TIE-IN NORTH | ISL | 15 | D | 2025/03/18 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 27 | A | 2025/04/03 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 28 | A | 2025/04/03 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 29 | A | 2025/04/03 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 30 | A | 2025/04/03 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 31 | A | 2025/04/03 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 32 | A | 2025/04/03 |
| ESC NOTES AND DETAILS: CEDAR DR UPGRADES – PHASE 1 | ISL | 33 | A | 2025/04/03 |

### REPLACE WITH

| TITLE | CONSULTANT | SHEET NO. | REVISION NO. | DATE |
|---|---|---|---|---|
| COVER – CEDAR DRIVE UPGRADES – PHASE 2 | ISL | 00 | | |
| ROAD WORKS: TYPICAL SECTIONS | ISL | 03 | E | 2025/04/24 |
| ROAD WORKS: TYPICAL SECTIONS | ISL | 04 | 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 |
| ROAD + WATER: STA 1+530 TO 1+670 | ISL | 12 | E | 2025/04/24 |
| ROAD + WATER: ROAD TIE-IN SOUTH | ISL | 14 | E | 2025/04/24 |
| ROAD + WATER: ROAD TIE-IN NORTH | ISL | 15 | E | 2025/04/24 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 27 | B | 2025/04/24 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 28 | B | 2025/04/24 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 29 | B | 2025/04/24 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 30 | B | 2025/04/24 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 31 | B | 2025/04/24 |
| PARTINGTON CREEK ENHANCEMENT HABITAT | ISL | 32 | B | 2025/04/24 |
| ESC NOTES AND DETAILS: CEDAR DR UPGRADES – PHASE 1 | ISL | 33 | B | 2025/04/24 |

**ADD**

| TITLE | CONSULTANT | SHEET NO. | REVISION NO. | DATE |
|---|---|---|---|---|
| IRRIGATION | ISL | 35 | A | 2023/07/06 |
| IRRIGATION | ISL | 36 | A | 2023/07/06 |
| IRRIGATION | ISL | 37 | A | 2023/07/06 |
| IRRIGATION | ISL | 38 | A | 2023/07/06 |
| IRRIGATION | ISL | 39 | A | 2023/07/06 |
| IRRIGATION | ISL | 40 | A | 2023/07/06 |
| IRRIGATION | ISL | 41 | A | 2023/07/06 |
| IRRIGATION DETAILS | ISL | 42 | A | 2025/04/24 |

## Contractor Questions/Clarifications

Q1.) Is the City going to ask for Water Act Approval extension for the instream work?

**A1.) Yes, City will submit for Water Act Approval date extension but there is no guarantee that an approval will be granted. Contractor must plan the work based on the approved date of August 1 to September 15 of any given year.**

Q2.) Do we get additional compensation if work for the inline sediment pond is to be completed in the 2026 Fisheries Window?

**A2.) There will be no additional compensation.**

Q3.) Can we complete all the Instream Works for both sediment ponds this 2025 Fisheries Window, August 1 to September 15?

**A3.) Yes.**

Q4.) Can we start some of the instream work for the inline sediment pond this 2025 Fisheries Window and complete the remaining instream work in 2026 Fisheries Window?

**A4.) No. Instream work must be completed within the Fisheries Window of the same year.**

Q5.) What will the specification be for the chain link fence?

**A5.) As shown on Contract Drawings.**

Q6.) How will the bark mulch be paid?

**A6.) See Revised - Appendix 1 – Revision No. 2.**

Q7.) Will the bark mulch be 100mm as per dwg 27 note 5.5.4, or 75mm as per 32 detail 5?

**A7.) 100mm.**

Q8.) How will the 2 years of establishment maintenance be paid?

**A8.) This will be incidental, no separate compensation.**

Q9.) Will the tree survivorship be 80% as per dwg 32 note 1.2, or 100% as per note 1.8?

**A9.) 100%.**

Q10.) How will the erosion control blanket be paid?

**A10.) See Revised - Appendix 1 – Revision No. 2.**

Q11.) Can we use "logs" for the large woody debris? The detail on dwg 32 depicts snags (logs with branches) and notes "with root wads"?

**A11.) As per landscaping detail shown on Contract Drawings.**

Q12.) Will an irrigation design be provided for this tender?

**A12.) See Revised Updated Drawings.**

Q13.) Works will be on top of the existing 60mm DP Gas line. Please confirm Fortis has been notified of the project.

**A13.) Fortis has been notified.**

Q14.) Water works cross the 60mm DP Gas line at 2 or 3 locations, are as-builts of the gas line available? Will monitoring of the line be required?

**A14.) For as builts, Fortis or BC One Call has to be contacted. Contractor will be monitoring, no monitoring by Fortis BC is required.**

Q15.) Please provide the flow rate for the required bypass system to be implanted during the Partington creek bypass work.

**A15.) Please see link provided: Partington Creek Flow Data. Link will be active for 30 days.**

Q16.) Confirm that any and all monitoring and/or reporting associated to environmental measures and ESC, will be completed by Owners rep. Is the Contractor required to provide full time monitoring during the instream works?

**A16.) City will be engaging a Qualified Environmental Monitor.**

Q17.) Where are the irrigation points of connection located, what size are they, and who is providing these water tie-ins?

**A17.) See Revised Updated Design Drawings for Irrigation Plans.**

Q18.) Where is the irrigation controller located? Are there multiple controllers required?

**A18.) There is an existing Controller on the North end of the drainage channel, which will be upgraded. No additional controllers required.**

Q19.) Is this irrigation system supposed to be temporary? If it is temporary, are we required to remove the system after the 1 year maintenance?

**A19.) New Irrigation system will be permanent.**

Q20.) Please indicate the high-water line on the drawings so that we can determine where the soil depth drops from 450mm to 300mm. This would allow us to calculate accurate soil volume calculations in an effort to reach the volumes noted on the Schedule of Quantities?

**A20.) As noted on sheet 32, the soil depth in the new channel area changes from 300mm to 450mm at an elevation of 4.0m. The elevations for soil depth changes for the creek cross section are noted on Sheet 3 in the top typical section.**

Q21.) What is the design intent for the planted areas in regards to the 75mm organic mulch dressing combined with the hydraulic seed application after planting (noted under Soil Stabilization on drawing 27). We are concerned the hydraulic fescue seeding will choke out the new plants?

**A21.) The proposed seeding within the shrub areas will be removed in the updated planting plan notes. The proposed seeding and sodding that is shown on the plans outside of the shrub areas, will remain in the design.**

Q22.) How is the Soil Stabilizing Hydraulic Seeding to be paid?

**A22.) See question 21 above.**

Q23.) Is the organic mulch to be installed over top of the Erosion Control Blanket in the creek bed plantings?

**A23.) Mulch is to be installed in areas shown on the updated planting plans. All other planting areas outside of the indicated mulch areas are to have erosion control blanket installed instead of mulch.**

Q24.) Section 32-31-13S for the single rail trail fence notes “complete with chain”. Should we assume that’s meant to say “chain link mesh” as noted on L5A as optional if requested?

**A24.) This should be Chain Link Mesh as noted on Standard Detail Drawing.**

Q25.) How will the straw wattles be paid? Where are the straw wattles?

**A25.) Straw wattles will be installed as directed by QEP. It will be paid under ESC measures.**

Q26.) Please provide a detail for the animal guards for the trees?

**A26.) Animal Guards will not be required, see updated revised drawings.**

Q27.) The landscape notes state to protect the entire site from the public with temporary moduloc fencing. Please clarify?

**A27.) Temporary fencing will be required for typical construction site safety as determined by the Contractor.**

***End of Addendum No. 2***

**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. 2**
**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** | **03 40 01S** | **PRECAST CONCRETE** | | | | |
| 6.01 | (1.4.3) | Concrete Lock Block Retaining Wall (Behind Fire Hydrants) | Square Meter | 51 | | $ - |
| **7.0** | **04 43 00S** | **CHANNEL SUBSTRATE** | | | | |
| 7.01 | (1.3.1) | Channel Substrate Gravel Mix | Cubic Meter | 850 | | $ - |
| 7.02 | (1.3.2) | 600mm Dia. Boulder | Each | 50 | | $ - |
| **8.0** | **26 56 01** | **ROADWAY LIGHTING** | | | | |
| 8.01 | 1.9.1 | Street and MUP Lighting | Lump Sum | 1 | | $ - |
| **9.0** | **31 11 01S** | **CLEARING AND GRUBBING** | | | | |
| 9.01 | (1.4.1) | Tree and Shrub Removals, Clearing and Grubbing | Lump Sum | 1 | | $ - |
| **10.0** | **31 23 01S** | **EXCAVATING, TRENCHING AND BACKFILLING** | | | | |

| ITEM NO. | MMCD Ref./ (Supplementary Contract Specifications) | DESCRIPTION | UNIT OF MEASURE | TOTAL QUANTITY | UNIT PRICE | TOTAL COST |
|---|---|---|---|---|---|---|
| 10.01 | (1.10.9) | Imported Trench Backfill (75mm Minus) (Provisional) | Tonnes | 800 | | $ - |
| **11.0** | **31 23 23S** | **CONTROLLED DENSITY FILL** | | | | |
| 11.01 | 1.4 | Infill of Existing 1200mm Dia. HDPE Culvert with Controlled Density Fill (CEMATRIX or Approved Equal) | Cubic Meter | 110 | | $ - |
| **12.0** | **31 24 13S** | **ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION** | | | | |
| 12.01 | (1.8.5) | Common Excavation - Off Site Disposal, includes stripping and top soil removal (Provisional) | Cubic Meter | 23000 | | $ - |
| 12.02 | (1.8.5) | Common Excavation - Off Site Disposal to local sites (NE Coquitlam), includes stripping and top soil removal (Provisional) | Cubic Meter | 23000 | | $ - |
| 12.03 | (1.8.5) | Common Excavation - Onsite reuse | Cubic Meter | 2000 | | $ - |
| 12.04 | (1.8.5) | Japanese Knotweed Removal and Off Site Disposal (Provisional) | Cubic Meter | 750 | | $ - |
| 12.05 | (1.8.15) | Japanese Knotweed Removal and Off Site Disposal at 1341 Gilleys Trail (Provisional) | Cubic Meter | 750 | | $ - |
| 12.06 | (1.8.10) | Overexcavation, Offsite Disposal, Backfilling (includes top soil stripping) | Cubic Meter | 500 | | $ - |
| 12.07 | (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 | | $ - |
| 12.08 | (1.8.5) | Off site disposal of previously stockpiled soil on 1341 Gilleys Trail (Provisional) | Cubic Meter | 450 | | $ - |
| 12.09 | (1.8.4) | Relocating the existing lock blocks placed on 1341 Gilleys Trail, after rough grading the ground (Provisional) | each | 100 | | $ - |
| 12.10 | (1.8.14) | Light Weight Fill Material - Pumice Aggregate | Cubic Meter | 1300 | | $ - |
| 12.11 | 1.8.7 | Imported Embankment Fill, 75mm SGSB | tonne | 9000 | | $ - |
| **13.0** | **31 37 10** | **RIPRAP** | | | | |
| 13.01 | 1.4.1 | Placing 300mm Riprap for armoring and side slope stability as shown on Contract Drawings | Cubic Meter | 50 | | $ - |
| **14.0** | **32 11 16.1S** | **GRANULAR SUBBASE** | | | | |
| 14.01 | (1.4.3) | 75mm Clear Crushed Gravel | Tonne | 700 | | $ - |
| 14.02 | (1.4.3) | 75mm Minus Crushed Granular Sub Base - Road | Tonne | 5380 | | $ - |
| 14.03 | (1.4.3) | 75mm Minus Crushed Granular Sub Base - Driveways (PROVISIONAL) | Tonne | 360 | | $ - |
| **15.0** | **32 11 23S** | **GRANULAR BASE** | | | | |
| 15.01 | (1.4.3) | 19mm Minus Crushed Granular Base, variable thickness, for roadway and as shown on Contract Drawings | Tonne | 5400 | | $ - |
| **16.0** | **32 12 13.1S** | **ASPHALT TACK COAT** | | | | |
| 16.01 | (1.5.1) | Asphalt Tack Coat | Square Meter | 8050 | | $ - |
| **17.0** | **32 12 16S** | **HOT-MIX ASPHALT CONCRETE PAVING** | | | | |

| ITEM NO. | MMCD Ref./ (Supplementary Contract Specifications) | DESCRIPTION | UNIT OF MEASURE | TOTAL QUANTITY | UNIT PRICE | TOTAL COST |
|---|---|---|---|---|---|---|
| 17.01 | (1.5.1) | Machine Laid Hot Mix Asphalt 50mm (MMCD Uppercourse #1) | Tonne | 990 | | $ - |
| 17.02 | (1.5.1) | Machine Laid Hot Mix Asphalt 50mm (MMCD Lower Course #1) | Tonne | 990 | | $ - |
| 17.03 | (1.5.1) | Machine Laid Hot Mix Asphalt (Driveways/Letdowns, MUP) (MMCD Upper Course #2) | Tonne | 450 | | $ - |
| **18.0** | **32 17 23S** | **PAINTED PAVEMENT MARKINGS** | | | | |
| 18.01 | (1.5.3) | Permanent Thermoplastic Pavement Markings | Lump Sum | 1 | | $ - |
| 18.02 | (1.5.4) | Supply & Install of Traffic Signage - City to supply all new sign tabs | Lump Sum | 1 | | $ - |
| **19.0** | **32 31 13S** | **CHAIN LINK FENCES AND GATES** | | | | |
| 19.01 | 1.5.1 | Chain Link Fence (1.8m High) (MMCD details see ) | lin.m | 682 | | $ - |
| 19.02 | 1.5.2 | Chain Link Gate (1.8M High) - 4300 Oliver Road | lin.m | 11 | | $ - |
| 19.03 | 1.5.2 | Chain Link Gate (1.8M High) - North Pond | lin.m | 6 | | $ - |
| 19.04 | 1.5.3 | Relocation of Existing Chain Link Gates (4170 and 4182 Cedar Drive) | Each | 2 | | $ - |
| 19.05 | (1.5.5) | Single Rail Trail Fence (as per COQ-L5A) complete with Chain Link Mesh | lin.m | 768 | | $ - |
| **20.0** | **32 84 23S** | **IRRIGATION SYSTEM** | | | | |
| 20.01 | (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 | | $ - |
| **21.0** | **32 91 21S** | **TOP SOIL AND FINSIH GRADING** | | | | |
| 21.01 | (1.4.1) | Growing Mediums specified in Contract Drawings | Cubic Meter | 8720 | | $ - |
| 21.02 | (1.4.1) | Bark Mulch (100mm), Composted, Brown Colour as Shown in Contract Drawings | Cubic Meter | 150 | | $ - |
| **22.0** | **32 92 19S** | **HYDRAULIC SEEDING** | | | | |
| 22.01 | (1.8) | Hydroseed (Provisional) | Square Meter | 310 | | $ - |
| 22.02 | 1.8.3 | Erosion Control Blanket (Terrafix C200 or approved equivalent) | Square Meter | 11,320 | | $ - |
| **23.0** | **32 92 23S** | **SODDING** | | | | |
| 23.01 | (1.8.1) | Sodding | Square Meter | 1900 | | $ - |
| **24.0** | **32 93 01S** | **PLANTING OF TREES, SHRUBS, AND GROUND COVERS** | | | | |
| 24.01 | (1.9.1) | Tree - Amelanchier canadenis - Canada Serviceberry | Each | 14 | | $ - |
| 24.02 | (1.9.1) | Tree - Betula allenghaniensis - Yellow Birch | Each | 32 | | $ - |
| 24.03 | (1.9.1) | Tree - Cercis canadiensis - Eastern Redbud | Each | 6 | | $ - |
| 24.04 | (1.9.1) | Tree - Crataegus douglasii suksdorfii - Black Hawthorn | Each | 4 | | $ - |
| 24.05 | (1.9.1) | Tree - Gleditsia triacanthus - Honey Locust | Each | 7 | | $ - |

| ITEM NO. | MMCD Ref./ (Supplementary Contract Specifications) | DESCRIPTION | UNIT OF MEASURE | TOTAL QUANTITY | UNIT PRICE | TOTAL COST |
|---|---|---|---|---|---|---|
| 24.06 | (1.9.1) | Tree - Picea glauca - White Spruce | Each | 6 | | $ - |
| 24.07 | (1.9.1) | Tree - Pinus contorta - Shore Pine | Each | 14 | | $ - |
| 24.08 | (1.9.1) | Tree - Pinus ponderosa - Ponderosa Pine | Each | 13 | | $ - |
| 24.09 | (1.9.1) | Tree - Prunus emarinata - Bitter Cherry | Each | 20 | | $ - |
| 24.10 | (1.9.1) | Tree - Pseudotsuga menziesii - Douglas Fir | Each | 16 | | $ - |
| 24.11 | (1.9.1) | Tree - Quercus garryana - Garry Oak | Each | 6 | | $ - |
| 24.12 | (1.9.1) | Shrubs | Each | 7636 | | $ - |
| 24.13 | (1.9.1) | Ground Cover | Each | 3369 | | $ - |
| 24.14 | (1.9.3) | Large Woody Debris | Each | 36 | | $ - |
| 24.15 | (1.9.3) | Tree Snag | Each | 12 | | $ - |
| 24.16 | (1.9.3) | Bat Box | Each | 16 | | $ - |
| 24.17 | (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 | | $ - |
| **25.0** | **33 05 25S** | **HORIZONTAL DIRECTIONAL DRILLING** | | | | |
| 25.01 | (3.1) | 450mm (18") DR11 HDPE Sanitary Main c/w Temporary Cap - Grey Pipe (HDPE Pipe to be supplied by the City; excluding fittings) | Linear Meter | 474 | | $ - |
| **26.0** | **33 11 01S** | **WATERWORKS** | | | | |
| 26.01 | (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 | | $ - |
| 26.02 | (1.8.2) | Steel Casing 450Ø SCH40 c/w RACI SPACERS as shown on Contract Drawings | Linear Meter | 9 | | $ - |
| 26.03 | (1.8.3) | 200 x 200 x 200 Tee | Each | 3 | | $ - |
| 26.04 | (1.8.3) | 200 x 200 x 150 Tee | Each | 7 | | $ - |
| 26.05 | (1.8.3) | 200mm 45 Degree DI Elbow | Each | 3 | | $ - |
| 26.06 | (1.8.3) | 200mm 22.5 Degree DI Elbow | Each | 2 | | $ - |
| 26.07 | (1.8.3) | 200mm Gate Valve | Each | 13 | | $ - |
| 26.08 | (1.8.3) | 150mm Gate Valve | Each | 7 | | $ - |
| 26.09 | (1.8.4) | 25mm Water Service Connection (as per COQ-W2b-2) | Each | 1 | | $ - |
| 26.10 | (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 | | $ - |
| 26.11 | (1.8.4) | Transfer 50mm Water Service Connection to #4182 (as per COQ-W2e) | Each | 1 | | $ - |
| 26.12 | (1.8.4) | Transfer 50mm Water Service Connection to Pump Station (as per COQ-W2e) | Each | 1 | | $ - |
| 26.13 | (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 | | $ - |
| 26.14 | (1.8.4) | 50mm Water Service Connection to #4196 (as per COQ-W2e) | Each | 1 | | $ - |

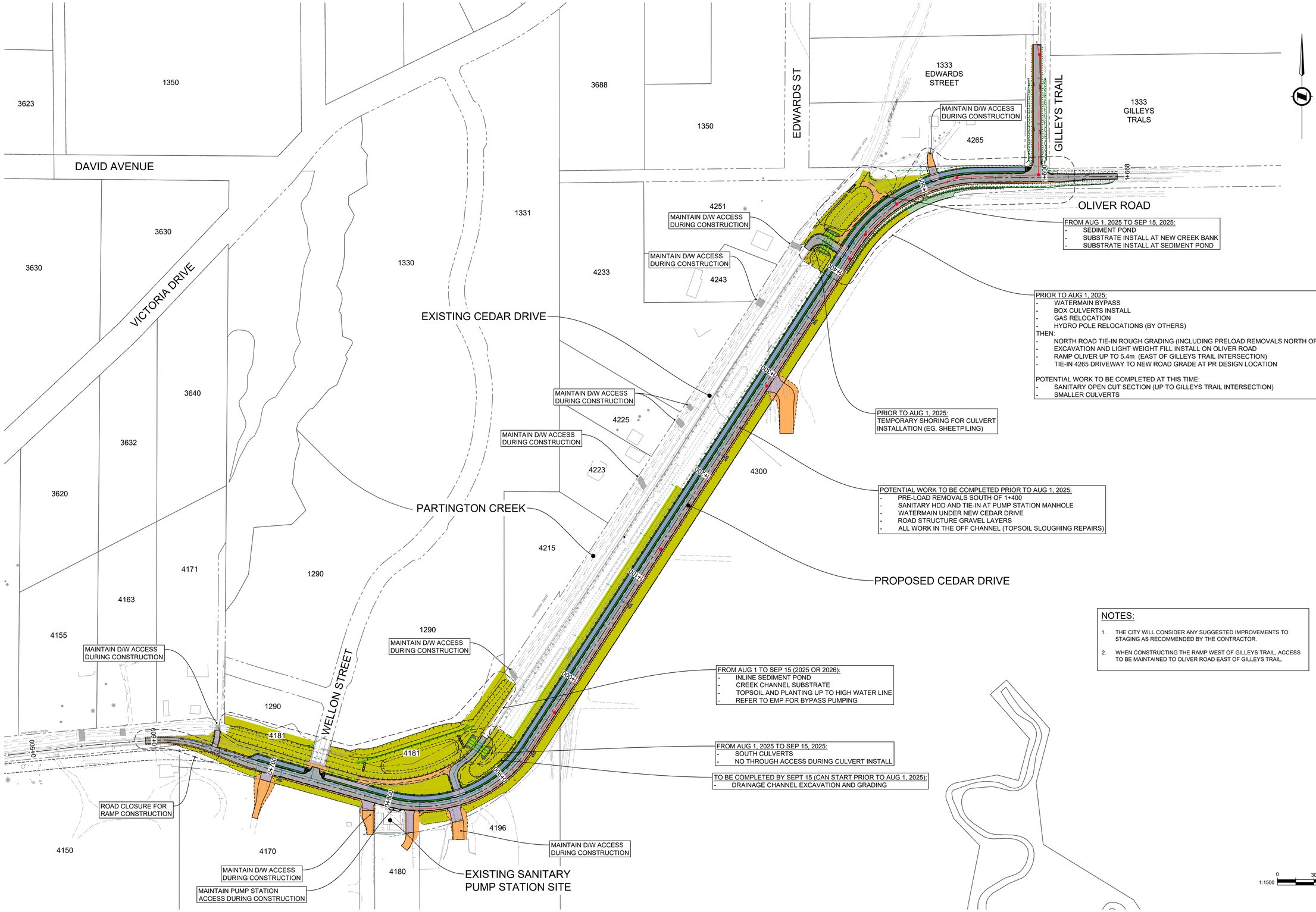
| ITEM NO. | MMCD Ref./ (Supplementary Contract Specifications) | DESCRIPTION | UNIT OF MEASURE | TOTAL QUANTITY | UNIT PRICE | TOTAL COST |
|---|---|---|---|---|---|---|
| 26.15 | (1.8.4) | 25mm Water Service Connection to #4265 (as per COQ-W2b-2) | Each | 1 | | $ - |
| 26.16 | (1.8.5) | Air Release Valve (as per COQ-W6) | Each | 5 | | $ - |
| 26.17 | (1.8.7) | Blow-off Assembly (as per COQ-W8) | Each | 1 | | $ - |
| 26.18 | (1.8.15) | Fire Hydrant Assembly Terminal City C71P c/w Storz (Complete as per MMCD W4) | Each | 7 | | $ - |
| 26.19 | (1.8.13) | Existing 200mm Watermain Tie-In | Each | 4 | | $ - |
| 26.20 | (1.8.14) | Irrigation 50mm water service connection and meter - COQ-W2e, WM-3 and as shown in Contract Drawings & Appendix B (Provisional) | ea. | 1 | | $ - |
| **27.0** | **33 30 01S** | **SANITARY** | | | | |
| 27.01 | (1.6.2) | 375mm SDR35 PVC Sanitary Main; Approved Native Backfill | Linear Meter | 410 | | $ - |
| 27.02 | (1.6.2) | 200mm SDR35 PVC Sanitary Main; Approved Native Backfill | Linear Meter | 12 | | $ - |
| 27.03 | (1.6.2) | 375mm Dia. Temporary Cap | Each | 2 | | $ - |
| 27.04 | (1.6.2) | 200mm Dia. Temporary Cap | Each | 1 | | $ - |
| 27.05 | (1.6.3) | New 100mm Dia. Sanitary Service Connection to #4265 (as per MMCD S7) | Each | 1 | | $ - |
| 27.06 | (1.6.7) | Existing 375mm Sanitary Main Tie-In | Each | 1 | | $ - |
| **28.0** | **33 40 01S** | **STORM SEWERS** | | | | |
| 28.01 | (1.6.6) | 100mmØ PVC Perforated Pipe Including Day Lighting, Drain Rock, Filter Fabric as shown in contract Drawings, Complete. | Linear Meter | 250 | | $ - |
| **29.0** | **33 42 13S** | **PIPE CULVERTS** | | | | |
| 29.01 | (1.5.2) | 600mm Conc. Culvert (Creek Bypass) | Linear Meter | 100 | | $ - |
| 29.02 | (1.5.2) | 300mm Conc. Culvert | Linear Meter | 20 | | $ - |
| 29.03 | (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) | Linear Meter | 72 | | $ - |
| 29.04 | (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) | Linear Meter | 36 | | $ - |
| 29.05 | (1.5.2) | 250mm SDR28 PVC Culvert | Linear Meter | 33 | | $ - |
| 29.06 | (1.5.2) | 200mm SDR28 PVC Culvert | Linear Meter | 37 | | $ - |
| 29.07 | (1.5.2) | 200mm Dia. Flap Gate | Each | 1 | | $ - |
| 29.08 | (1.5.8) | Fabricate and install Trash Racks for existing 1200mm HDPE Overflow Risers (StormRax - Round - 60inches or equivalent) | Each | 2 | | $ - |
| **30.0** | **33 44 01S** | **MANHOLES AND CATCHBASINS** | | | | |
| 30.01 | (1.5.1.1) | 1050mm Concrete Sanitary Pre-benched Manhole Base c/w Slab, Frame and Cover | Each | 7 | | $ - |
| 30.02 | (1.5.1.2) | 1050mm Sanitary Manhole Risers | Vert. Meter | 28 | | $ - |

| ITEM NO. | MMCD Ref./ (Supplementary Contract Specifications) | DESCRIPTION | UNIT OF MEASURE | TOTAL QUANTITY | UNIT PRICE | TOTAL COST |
|---|---|---|---|---|---|---|
| 30.03 | (1.5.7) | 1050mm Concrete Sanitary Overbuild Manhole Base c/w Benching, Slab, Frame and Cover | Each | 2 | | $ - |
| 30.04 | (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:**




FROM AUG 1, 2025 TO SEP 15, 2025:
- SEDIMENT POND
- SUBSTRATE INSTALL AT NEW CREEK BANK
- SUBSTRATE INSTALL AT SEDIMENT POND

PRIOR TO AUG 1, 2025:
- WATERMAIN BYPASS
- BOX CULVERTS INSTALL
- GAS RELOCATION
- HYDRO POLE RELOCATIONS (BY OTHERS)

THEN:
- NORTH ROAD TIE-IN ROUGH GRADING (INCLUDING PRELOAD REMOVALS NORTH OF 1+400)
- EXCAVATION AND LIGHT WEIGHT FILL INSTALL ON OLIVER ROAD
- RAMP OLIVER UP TO 5.4m (EAST OF GILLEYS TRAIL INTERSECTION)
- TIE-IN 4265 DRIVEWAY TO NEW ROAD GRADE AT PR DESIGN LOCATION

POTENTIAL WORK TO BE COMPLETED AT THIS TIME:
- SANITARY OPEN CUT SECTION (UP TO GILLEYS TRAIL INTERSECTION)
- SMALLER CULVERTS

PRIOR TO AUG 1, 2025:
TEMPORARY SHORING FOR CULVERT INSTALLATION (EG. SHEETPILING)

POTENTIAL WORK TO BE COMPLETED PRIOR TO AUG 1, 2025:
- PRE-LOAD REMOVALS SOUTH OF 1+400
- SANITARY HDD AND TIE-IN AT PUMP STATION MANHOLE
- WATERMAIN UNDER NEW CEDAR DRIVE
- ROAD STRUCTURE GRAVEL LAYERS
- ALL WORK IN THE OFF CHANNEL (TOPSOIL SLOUGHING REPAIRS)

FROM AUG 1 TO SEP 15 (2025 OR 2026):
- INLINE SEDIMENT POND
- CREEK CHANNEL SUBSTRATE
- TOPSOIL AND PLANTING UP TO HIGH WATER LINE
- REFER TO EMP FOR BYPASS PUMPING

FROM AUG 1, 2025 TO SEP 15, 2025:
- SOUTH CULVERTS
- NO THROUGH ACCESS DURING CULVERT INSTALL

TO BE COMPLETED BY SEPT 15 (CAN START PRIOR TO AUG 1, 2025):
- DRAINAGE CHANNEL EXCAVATION AND GRADING

NOTES:

1. THE CITY WILL CONSIDER ANY SUGGESTED IMPROVEMENTS TO STAGING AS RECOMMENDED BY THE CONTRACTOR.
2. WHEN CONSTRUCTING THE RAMP WEST OF GILLEYS TRAIL, ACCESS TO BE MAINTAINED TO OLIVER ROAD EAST OF GILLEYS TRAIL.

1:1500 0 30 90m

ADDENDUM #2 DESIGN NO. 32628

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ISSUED FOR TENDER | 2025/03/31 | GA | CJB |
| B | ISSUED FOR TENDER REVISED | 2025/04/02 | GA | CJB |
| C | ADDENDUM #2 | 2025/04/24 | GA | CJB |
| | | | | |
| | | | | |

Coquitlam

# TRAFFIC AND CONSTRUCTION STAGING PLAN
## CEDAR DRIVE UPGRADES - PHASE 2

ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

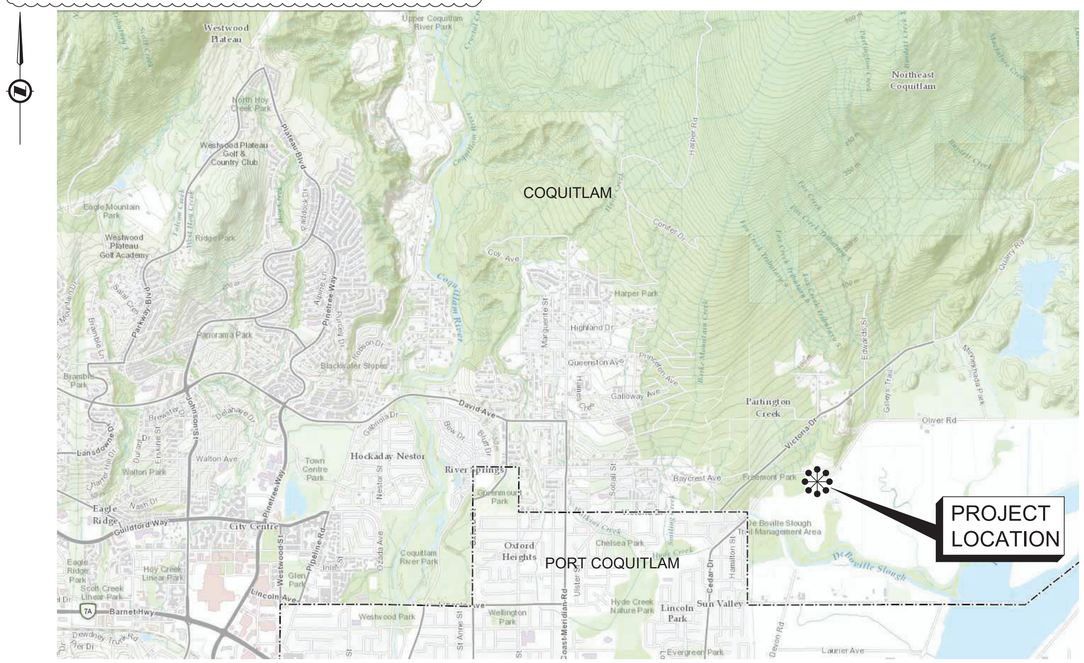
| | | | |
|---|---|---|---|
| SCALE | AS SHOWN | CREATION DATE | OCT - 2023 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |

DWG. NO. 01 OF 01 REV. C

File: C:\ADSK\ACCDocs\ISL\32628_COQ_CedarDrive-Phase1Roadworks\Project Files\02_CADD\20_Drafting\203_Sheets\Phase 1 and 2 - Cedar Drive Upgrades\32628_SH_Phase_2_Traffic_Staging.dwg

| DRAWING SCHEDULE | | | |
|---|---|---|---|
| CATEGORY | DWG. NO. | SHEET TITLE | REV. NO. |
| GENERAL | 00 | COVER | |
| | 01 | GENERAL NOTES | D |
| | 02 | KEY PLAN | D |
| | 03 | TYPICAL SECTIONS | E |
| | 04 | TYPICAL SECTIONS | E |
| ROAD + WATER | 05 | STA 0+580 TO 0+720 | E |
| | 06 | STA 0+720 TO 0+840 | E |
| | 07 | STA 0+840 TO 0+980 | E |
| | 08 | STA 0+980 TO 1+120 | E |
| | 09 | STA 1+120 TO 1+260 | E |
| | 10 | STA 1+260 TO 1+390 | E |
| | 11 | STA 1+390 TO 1+530 | E |
| | 12 | STA 1+530 TO 1+670 | E |
| | 13 | GILLEY'S TRAIL | D |
| | 14 | ROAD TIE-IN SOUTH | E |
| | 15 | ROAD TIE-IN NORTH | E |
| PROPERTY DRIVEWAYS | 16 | PROPERTIES 4171 AND 4170 | D |
| | 17 | PROPERTIES 4182 AND 4180 | D |
| | 18 | PROPERTY 4196 AND 4300 | D |
| | 19 | PROPERTY 4265 | D |
| SANITARY GRAVITY SEWER | 20 | STA 0+800 TO 1+080 | D |
| | 21 | STA 1+080 TO 1+420 | D |
| | 22 | STA 1+420 TO 1+660 | D |
| | 23 | GILLEY'S TRAIL | D |
| DRAINAGE CHANNEL | 24 | PARTINGTON CREEK AND IN-LINE POND | D |
| | 25 | DRAINAGE CHANNEL | D |
| | 26 | CULVERT DETAILS | D |
| ENVIRONMENTAL PLANTING | 27 | ENV PLANTING NOTES | B |
| | 28 | ENV PLANTING 1 | B |
| | 29 | ENV PLANTING 2 | B |
| | 30 | ENV PLANTING 3 | B |
| | 31 | ENV PLANTING 4 | B |
| | 32 | ENV PLANTING DETAILS | B |
| ESC | 33 | ESC NOTES AND DETAILS | B |
| | 34 | ESC PLAN | A |
| IRRIGATION | 35 | IRRIGATION 01 | A |
| | 36 | IRRIGATION 02 | A |
| | 37 | IRRIGATION 03 | A |
| | 38 | IRRIGATION 04 | A |
| | 39 | IRRIGATION 05 | A |
| | 40 | IRRIGATION 06 | A |
| | 41 | IRRIGATION 07 | A |
| | 42 | IRRIGATION DETAILS | A |

| DRAWING SCHEDULE | | | |
|---|---|---|---|
| CATEGORY | DWG.NO. | SHEET TITLE | REV.NO. |
| ELECTRICAL | 1 | STREET LIGHTING | 1 |
| | 2 | STREET LIGHTING | 1 |
| | 3 | STREET LIGHTING | 1 |
| | 4 | IRRIGATION CONTROLLER POWER | 1 |



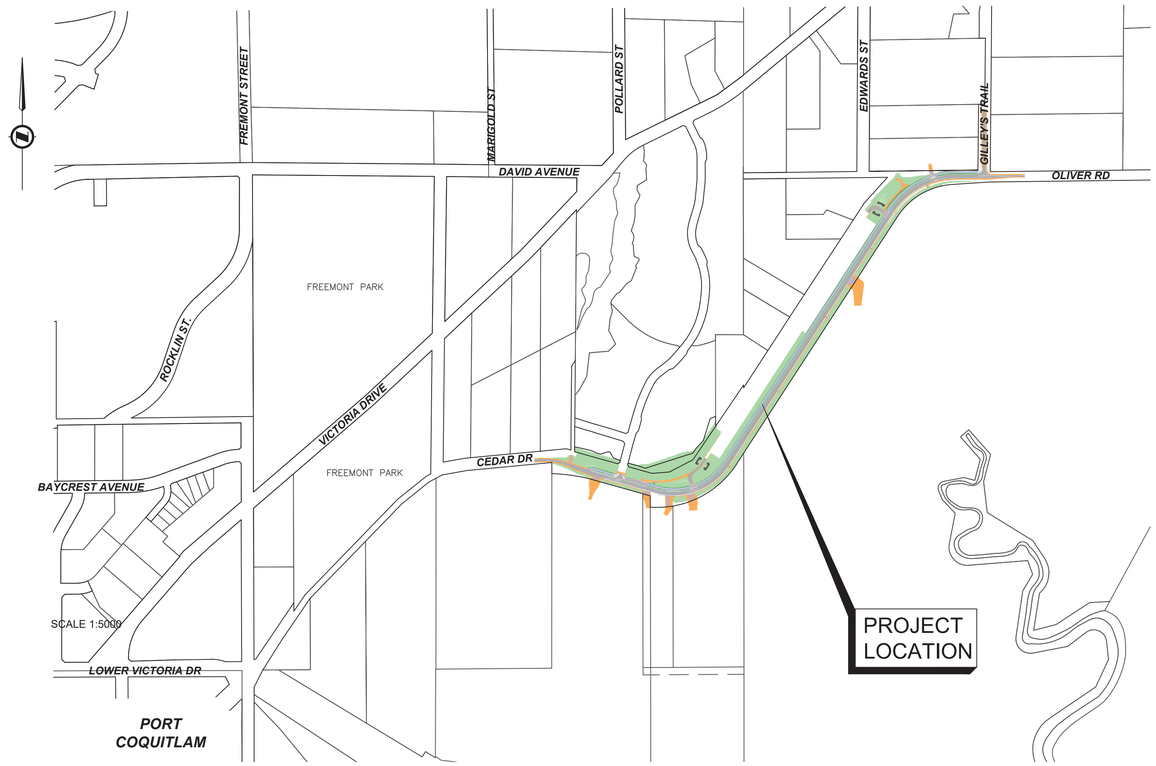

LOCATION PLAN

# CEDAR DRIVE UPGRADES - PHASE 2
# ISSUED FOR TENDER

**Permit to Practice**
*ISL Engineering and Land Services Ltd.*

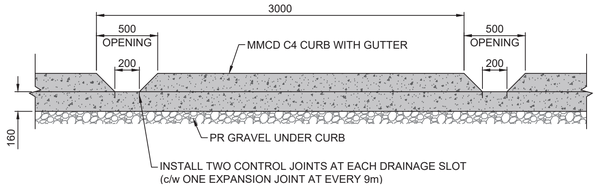
RR Signature:
RR EGBC ID: 31808
Date: 2025-04-24

**Permit Number 1000419**
Engineers & Geoscientists British Columbia

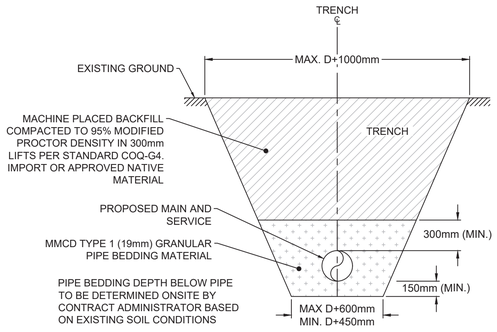



LOCATION PLAN

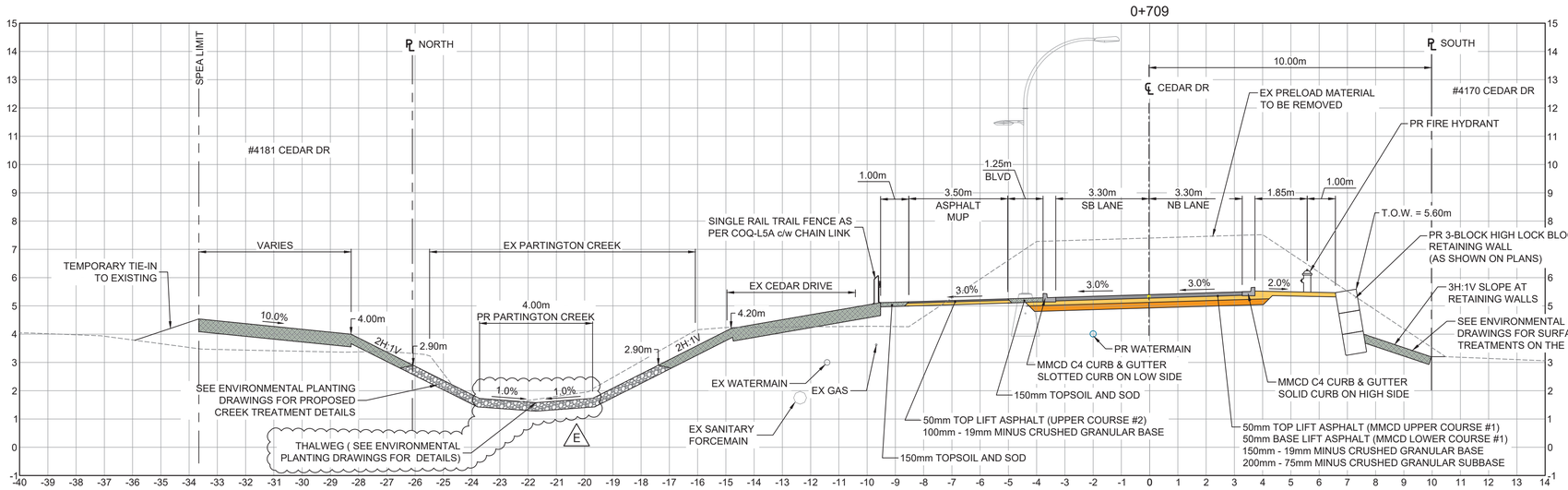
ISL Engineering and Land Services
#503, 4190 Lougheed Hwy, Burnaby, B.C. V5C 6A8
T: (604)629-2696 F: (604)629-2698



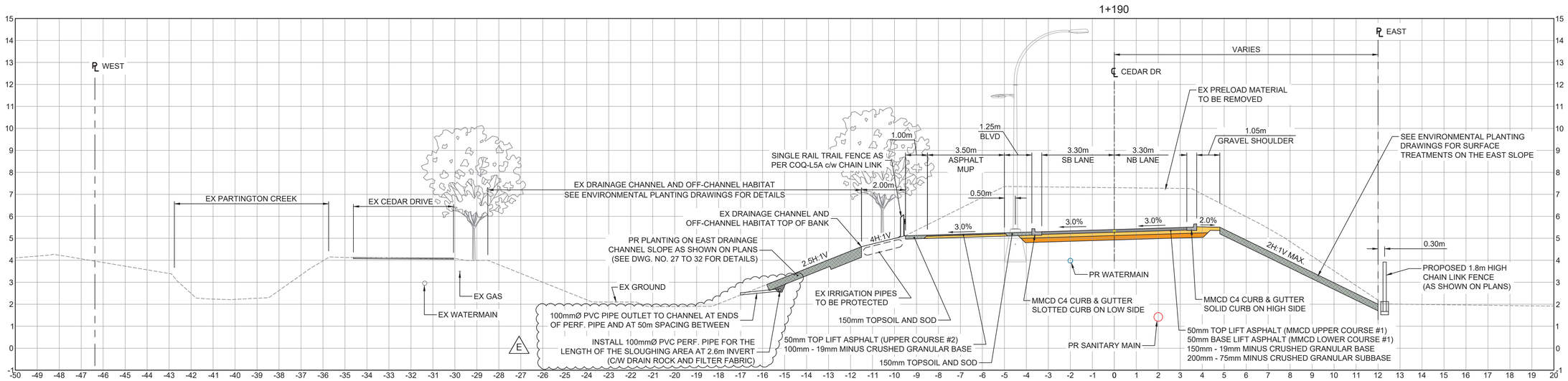

CONCRETE MMCD C4 BARRIER CURB DRAINAGE SLOTS SPACING AND DETAIL
SCALE: 1:25




TYPICAL PIPE TRENCH DETAIL
NTS




CEDAR DRIVE TYPICAL SECTION
FRONTING PROPERTY #4170
SCALE: 1:100




CEDAR DRIVE TYPICAL SECTION
FROM PROPERTY #4170 TO STA 1+405
SCALE: 1:100

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | DETAILED DESIGN | 2023/10/27 | GA | CJB |
| 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 |

Coquitlam

ROAD WORKS

# TYPICAL SECTIONS
## CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER G. DE SOUZA ATAIDE # 60049 ENGINEERING 2025-04-24

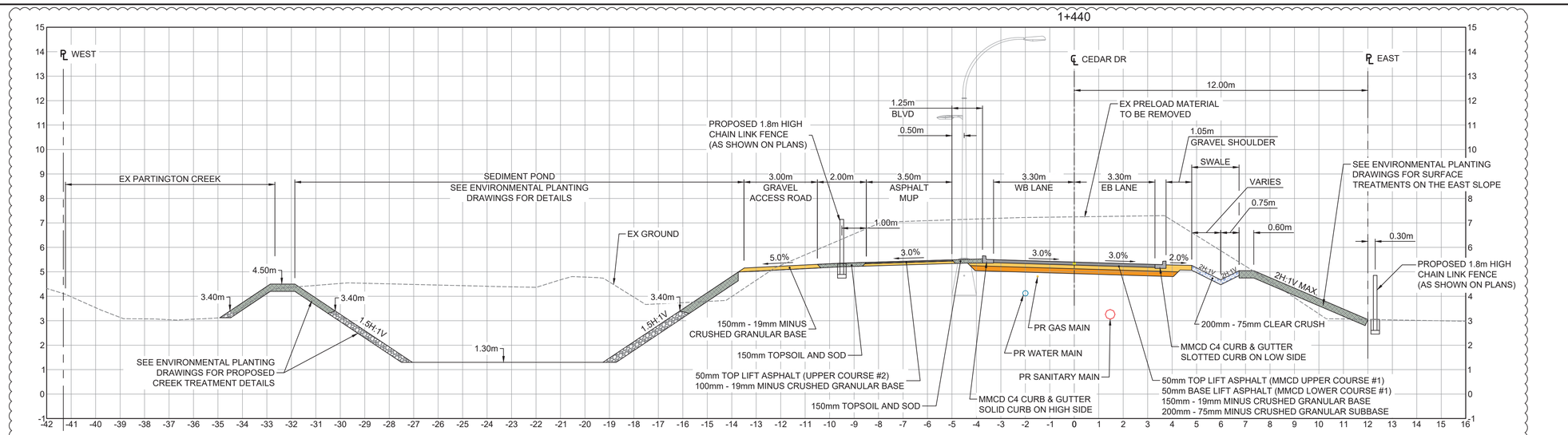
ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

ADDENDUM #2 DESIGN NO. 33527

| | | | |
|---|---|---|---|
| SCALE | AS SHOWN | CREATION DATE | OCT - 2023 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |

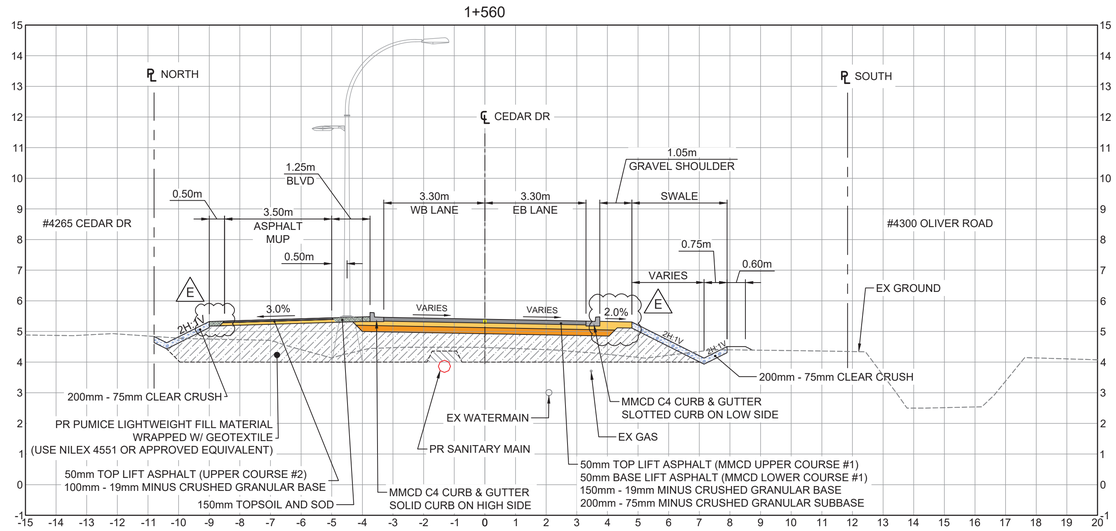
DWG. NO. 03 OF 42 REV. E

File: c:\ADSKACCDocs\ISL\330628_coq_cedardrive-phase1\roadworks\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\330628_SH_Typical_Sections_Phase_1.dwg

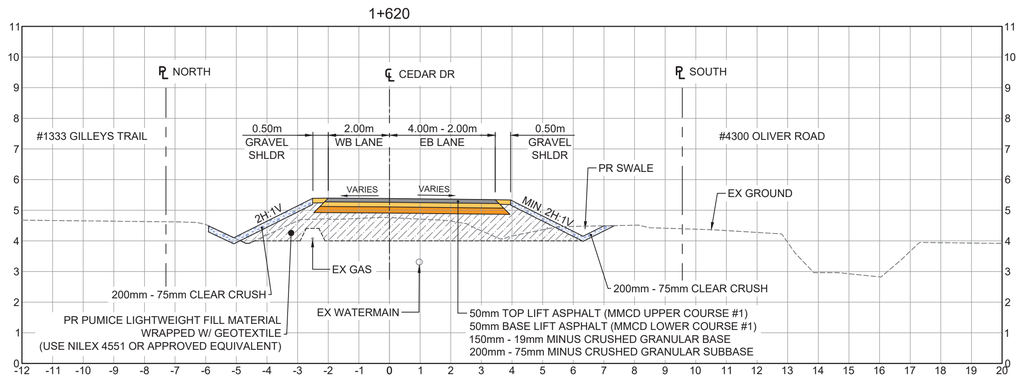



CEDAR DRIVE TYPICAL SECTION
AT UPPER SEDIMENT POND
SCALE: 1:100

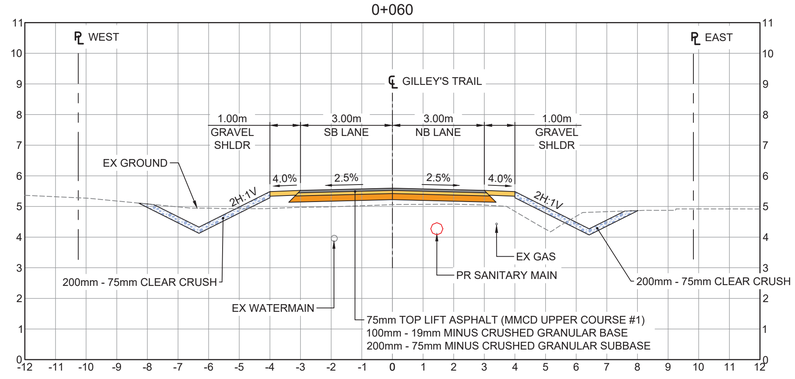
E




CEDAR DRIVE TYPICAL SECTION
FRONTING PROPERTY #4265
SCALE: 1:100




CEDAR DRIVE TYPICAL SECTION
FRONTING PROPERTY #1333
SCALE: 1:100




GILLEY'S TRAIL TYPICAL SECTION
SCALE: 1:100

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | DETAILED DESIGN | 2023/10/27 | GA | CJB |
| 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 |

Coquitlam

ROAD WORKS

# TYPICAL SECTIONS
## CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER
G. DE SOUZA ATADE
#50849
ENGINEERS AND GEOSCIENTISTS BC
2025-04-24

ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

| | | | |
|---|---|---|---|
| SCALE | AS SHOWN | CREATION DATE | OCT - 2023 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |

DWG. NO. 04 OF 42
REV. E

ADDENDUM #2 DESIGN NO. 33527

File: c:\ADSKACCDocs\ISL\32928_coq_cedardrive-yphase1\roadwork\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\32828_SH_Typical_Sections_Phase_1.dwg

PROPOSED ASPHALT DRIVEWAY FOR PROPERTY #4171.
SEE SHEET 16 FOR DETAILS.
DRIVEWAY ACCESS TO BE MAINTAINED DURING CONSTRUCTION.

RELOCATE #4171 20mm WATER SERVICE TO NEW 200Ø DI WATER MAIN. NEW CONNECTION AS PER COQ-W2b.

BC HYDRO TO INSTALL NEW GUY WIRE AND NEW GUY WIRE ANCHOR, AND TO REMOVE EXISTING ANCHOR POLE

CAP AND ABANDON EXISTING 200Ø DI WTR

TIE INTO EX. 200Ø DI WTR WITH:
1 - 200Ø DI HxH 45° BEND
1 - 200Ø DI COUPLER
1 - 200Ø PERMANENT CAP (EXISTING MAIN)
ALL RODDED TOGETHER C/W THRUST BLOCKS

SINGLE RAIL TRAIL FENCE AS PER COQ-L5A (TYP.)

CURVE DATA
Radius = 600.00m
Arc = 60.70m
Chord = 60.68m
PI DATA
Δ = 5°47'48"
Station = 0+677.91
Northing = 5461827.993
Easting = 520124.934

REMOVE EXISTING ASPHALT ROAD

SHARED PATHWAY MARKING (TYP.)

REMOVE EXISTING WATER METER AND WATER SERVICE

PR MMCD C4 CURB AND GUTTER - SLOTTED CURB (SEE DWG. NO. 03 FOR DETAIL)

SEE ELECTRICAL DRAWINGS FOR PROPOSED STREET LIGHTING DESIGN

1 - 200Hx200FLx150FL DI TEE c/w THRUST BLOCK
1 - 200mm HxFL GATE VALVE
1 - 150mm HxFL GATE VALVE

EXISTING FIRE HYDRANT TO BE REMOVED

E

PROPOSED JUNCTION BOX (TO BE PLACED IN GRASS AREA OUTSIDE OF THE MUP) TYP. SEE ELECTRICAL DRAWINGS FOR DETAILS.

#4171 #4163 #4170 #4150

PARTINGTON CREEK

EX CEDAR DRIVE

TIE INTO EXISTING PAVEMENT 0+580.00

0+580 0+600 0+620 0+640 0+660 0+680 0+700 0+720

2.2m LANE 2.2m LANE 3.3m LANE 3.3m LANE 3.5m MUP

EX 350Ø HDPE SAN
EX 350Ø HDPE SAN FM
EX 200Ø DI WTR
EX 60Ø DP GAS

MATCHLINE STA 0+720. CONTINUED ON SHEET 06

CURVE DATA
Radius = 105.00m
Arc = 45.82m
Chord = 45.45m
PI DATA
Δ = 25°00'05"
Station = 0+624.98
Northing = 5461847.564
Easting = 520074.961

PR 200mmØ DI WTR MAIN

100mm WHITE SOLID FOG LINES

CONNECT NEW 50mm MUNICIPEX PIPE WATER SERVICE TO NEW WATERMAIN AS PER COQ-W2e

PROPOSED WATER METER AS PER COQ WATER METER SPECIFICATIONS DETAILED DRAWING WM-3. CONNECT TO EXISTING WATER LINE ON PRIVATE PROPERTY SIDE OF NEW METER. (WATER METER TO BE INSTALLED BY THE CITY)

PROPERTY LINE

100mm SOLID YELLOW LINE

PR MMCD C4 CURB AND GUTTER (SOLID CURB)

PLACE ASPHALT AROUND NEW VALVE BOX UP TO BACK OF NEW CURB

HYDRANT ASSEMBLY C/W TIE RODS AND GATE VALVE

PR CONC LOCK BLOCK RETAINING WALL

PROPOSED ASPHALT DRIVEWAY FOR PROPERTY #4170. SEE SHEET 16 FOR DETAILS.

## 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

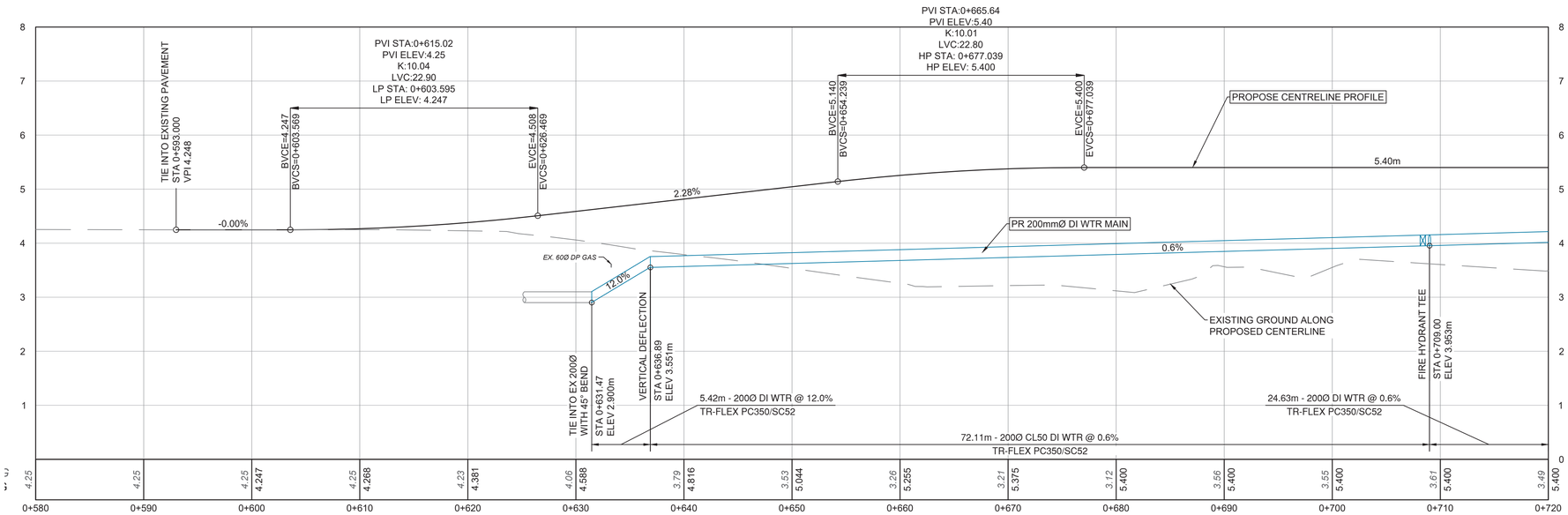
150mm TOPSOIL AND SODDING

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% |




1:250 0 5 15m

ADDENDUM #2 DESIGN NO. 33527

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | DETAILED DESIGN | 2023/10/27 | GA | CJB |
| B | UPDATED DETAILED DESIGN | 2023/11/24 | GA | CJB |
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| D | ISSUED FOR TENDER | 2025/04/07 | GA | CJB |
| E | ADDENDUM #2 | 2025/04/24 | GA | CJB |

Coquitlam

ROAD + WATER

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

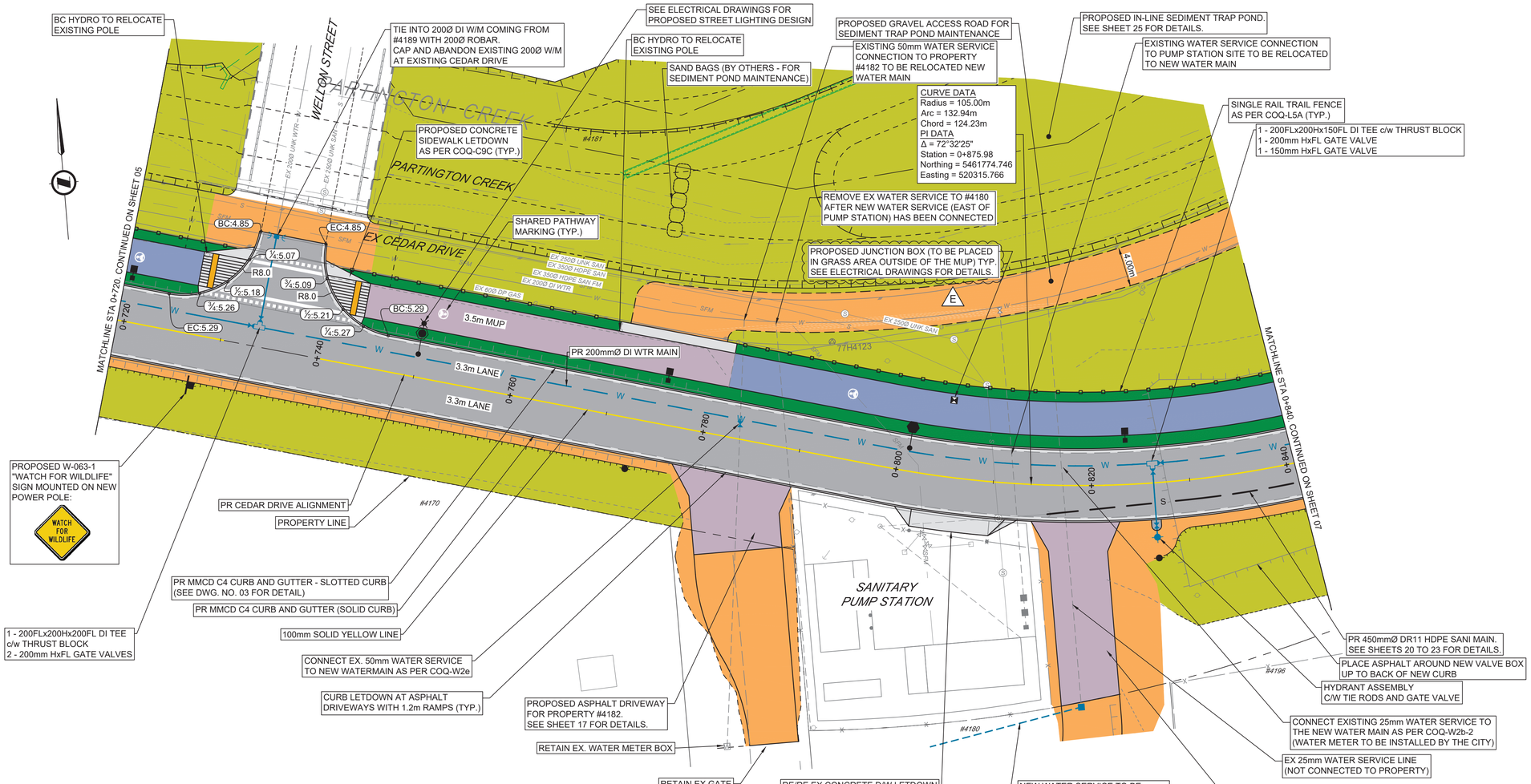
PROFESSIONAL ENGINEER G. DE SOUZA ATAIDE # 50849 CERTIFICATE OF PRACTICE NO. 1000 ENGINEER 2025-04-24

ISL
#201, 3990 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)529-2696 F: (604)529-2698

| | | | |
|---|---|---|---|
| SCALE | 1:250 | CREATION DATE | OCT - 2023 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |

DWG. NO. 05 OF 42 REV. E

File: c:\ADSK\ACCDocs\ISL\32628_coq_cedardrive-phase1roadworks\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\32628_SH_Roadworks_and_Water_Phase_1.dwg




## 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

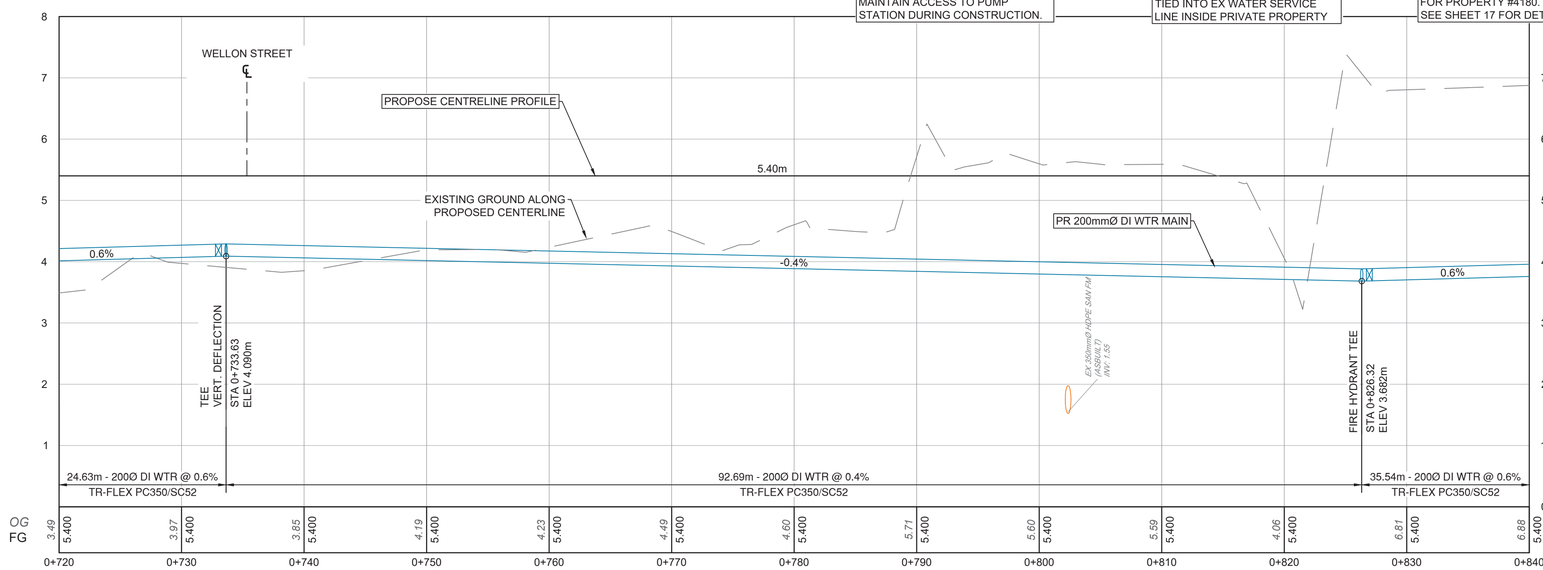
150mm TOPSOIL AND SODDING

100mm TOPSOIL AND HYDROSEED

CONCRETE

RIPARIAN PLANTING
- SEE SHEETS 27 TO 32 FOR DETAILS

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




1:250 (0, 5, 15m)

PLOT DATE: April 24, 2025

ADDENDUM #2 DESIGN NO. 33527

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
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| E | ADDENDUM #2 | 2025/04/24 | GA | CJB |

Coquitlam

ROAD + WATER

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

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G. DE SOUZA ATAIDE # 50849 ENGINEERING SERVICES LTD. 2025-04-24

ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

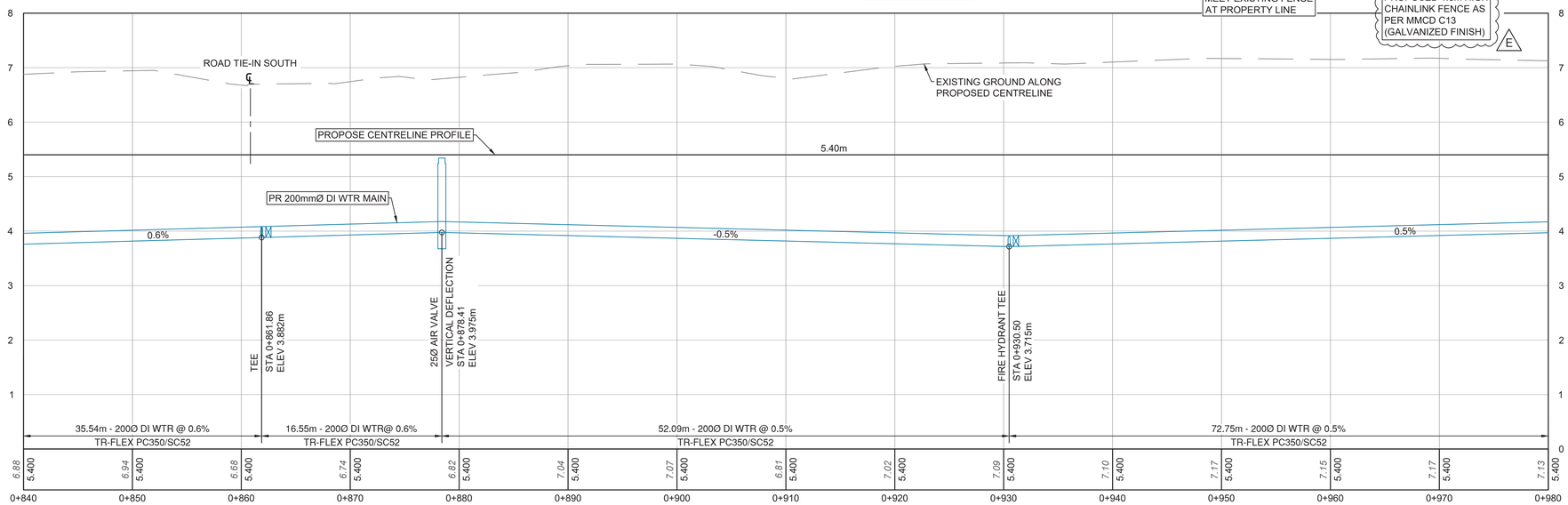
| | | | |
|---|---|---|---|
| SCALE | 1:250 | CREATION DATE | OCT - 2023 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |

DWG. NO. 06 OF 42 REV. E

File: c:\ADS\KA\CCDocs\ISL\33628_coq_cedardrive-phase1roadworks\project files\02_CAD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\32628_SH_Roadworks_and_Water_Phase_1.dwg

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

PROPOSED GRAVEL ACCESS ROAD FOR SEDIMENT TRAP POND MAINTENANCE
SEE SHEET 14 FOR PROPOSED WATER TIE IN DETAILS
PROPOSED IN-LINE SEDIMENT TRAP POND. SEE SHEET 25 FOR DETAILS.
PROPOSED DRAINAGE CONVEYANCE CHANNEL AND OFF-CHANNEL HABITAT AREA. SEE SHEETS 25 AND 26 FOR DETAILS.
SAND BAGS (BY OTHERS - FOR SEDIMENT POND MAINTENANCE)
PR POST TO SECURE GATE WHEN OPEN
PR 4.0m WIDE SWING GATE. SEE DETAIL THIS SHEET.
PR 3 - 1.2x2.1m CULVERTS (SEE SHEET 35 FOR DETAILS)
PROPOSED ROAD TIE-IN. SEE SHEET 14 FOR DETAILS.
MATCHLINE STA 0+840. CONTINUED ON SHEET 06
BC HYDRO TO INSTALL GUY WIRE AND ANCHOR TO EXISTING POWER POLE
EX. CEDAR DRIVE
1 - 200Hx200FLx200FL DI TEE c/w THRUST BLOCK
2 - 200mm HxFL GATE VALVES
SEE ELECTRICAL DRAWINGS FOR PROPOSED STREET LIGHTING DESIGN
FROM APPROX. STA 0+930 TO 1+180: REMOVE EXISTING SLOUGHED TOPSOIL FROM CHANNEL EAST BANK, REGRADE AREA, AND REINSTALL TOPSOIL TO PROPOSED GRADES. INSTALL 100mmØ PERF PIPE AS SHOWN ON DWG. NO. 03.
PROPOSED JUNCTION BOX (TO BE PLACED IN GRASS AREA OUTSIDE OF THE MUP) TYP. SEE ELECTRICAL DRAWINGS FOR DETAILS.
SINGLE RAIL TRAIL FENCE AS PER COQ-L5A (TYP.)
EX IRRIGATION SYSTEM FOR EX TREES TO BE PROTECTED DURING CONSTRUCTION
PR MMCD C4 CURB AND GUTTER - SLOTTED CURB (SEE DWG. NO. 03 FOR DETAIL)
SHARED PATHWAY MARKING (TYP.)
3.5m MUP
3.3m LANE
3.3m LANE
MATCHLINE STA 0+980. CONTINUED ON SHEET 08
PR WATER METER AS PER COQ WATER METER SPECIFICATIONS DETAILED DRAWING WM-2. CONNECT EX WATER LINE ON PRIVATE PROPERTY SIDE OF NEW METER. (WATER METER TO BE INSTALLED BY THE CITY)
PR 50mm MUNICIPEX PIPE WATER SERVICE CONNECTION TO PROPERTY #4196 AS PER COQ-W2b
REMOVE EX WATER SERVICE TO PROPERTY #4196
PROPOSED ASPHALT DRIVEWAY FOR PROPERTY #4196. SEE SHEET 18 FOR DETAILS.
CURB LETDOWN AT ASPHALT DRIVEWAYS WITH 1.2m RAMPS (TYP.)
PR CONCRETE LETDOWN AS PER COQ-C7B
PR 25Ø AIR VALVE ASSEMBLY AS PER COQ-W6
CURVE DATA
Radius = 105.00m
Arc = 132.94m
Chord = 124.23m
PI DATA
Δ = 72°32'25"
Station = 0+875.98
Northing = 5461774.746
Easting = 520315.766
PR 200mmØ DI WTR MAIN
PR CEDAR DRIVE ALIGNMENT
PROPERTY LINE
PR MMCD C4 CURB AND GUTTER (SOLID CURB)
1 - 200Hx200FLx150FL DI TEE c/w THRUST BLOCK
1 - 200mm HxFL GATE VALVE
1 - 150mm HxFL GATE VALVE
PLACE ASPHALT AROUND NEW VALVE BOX UP TO BACK OF NEW CURB
HYDRANT ASSEMBLY C/W TIE RODS AND GATE VALVE
PR CONC LOCK BLOCK RETAINING WALL
100mm SOLID YELLOW LINE
PR 450mmØ DR11 HDPE SANI MAIN. SEE SHEETS 20 TO 23 FOR DETAILS.
MEET EXISTING FENCE AT PROPERTY LINE
PROPOSED 1.8m HIGH CHAINLINK FENCE AS PER MMCD C13 (GALVANIZED FINISH)
#4189
#4215
#4196
#4300
EX 600Ø HDPE DRAIN
EX 200Ø DI WTR
EX 600 DP GAS
4.50m
6.00m
R105.0




## 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

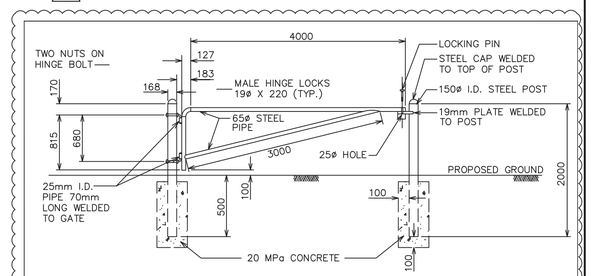
600mm OF 300mm RIPRAP

150mm TOPSOIL AND SODDING

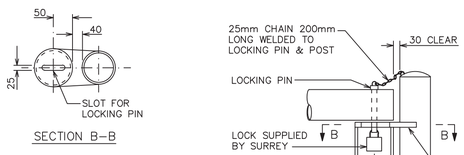
100mm TOPSOIL AND HYDROSEED

CONCRETE

RIPARIAN PLANTING
- SEE SHEETS 27 TO 32 FOR DETAILS




GATE DETAILS




GATE LOCKING PIN DETAIL

NOTES:
1. ALL GATE COMPONENTS TO HAVE PRIME COAT AND TWO COATS OF WHITE ENAMEL PAINT.
2. ALL STEEL TO BE A MINIMUM OF A36 GRADE.

## SWING GATE DETAIL
NTS

1:250 0 5 15m

ADDENDUM #2 DESIGN NO. 33527

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
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| E | ADDENDUM #2 | 2025/04/24 | GA | CJB |

Coquitlam

ROAD + WATER

STA 0+840 TO 0+980
CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER G. DE SOUZA ATAIDE # 50849 PROVINCE OF BRITISH COLUMBIA 2025-04-24

ISL
#201, 3990 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)529-2696 F: (604)529-2668

| | | | |
|---|---|---|---|
| SCALE | 1:250 | CREATION DATE | OCT - 2023 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |
| | | | REV. E |

DWG. NO. 07 OF 42

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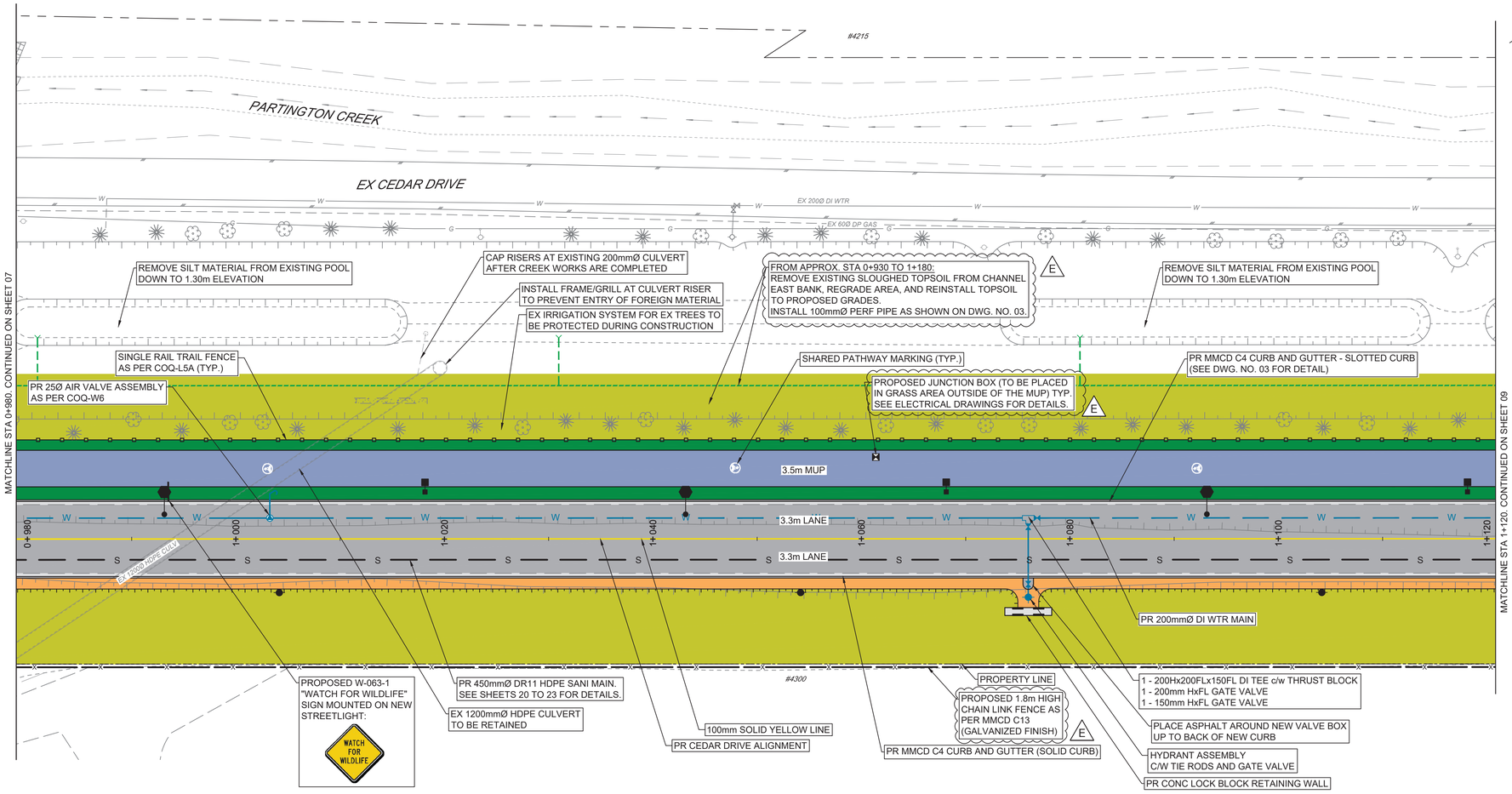


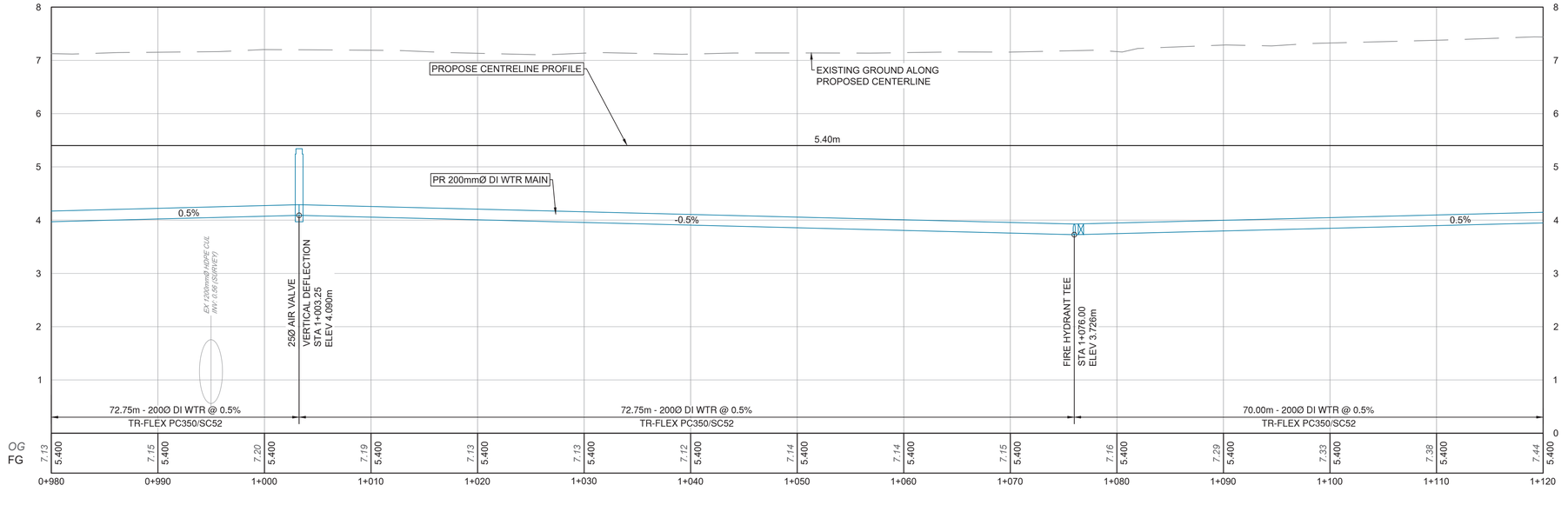


1:250 0 5 15m

## 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+670.00m | -3.00% | 3.00% |
| 1+380.00m | -3.00% | 3.00% |

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
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| E | ADDENDUM #2 | 2025/04/24 | GA | CJB |

Coquitlam

ROAD + WATER

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

ENGINEERS AND GEOSCIENTISTS BRITISH COLUMBIA
G. DE SOUZA ATAIDE
# 50849
PROFESSIONAL ENGINEER
2025-04-24

ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

| | | | |
|---|---|---|---|
| SCALE | 1:250 | CREATION DATE | OCT - 2023 |
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DWG. NO. 08 OF 42
REV. E

ADDENDUM #2 DESIGN NO. 33527

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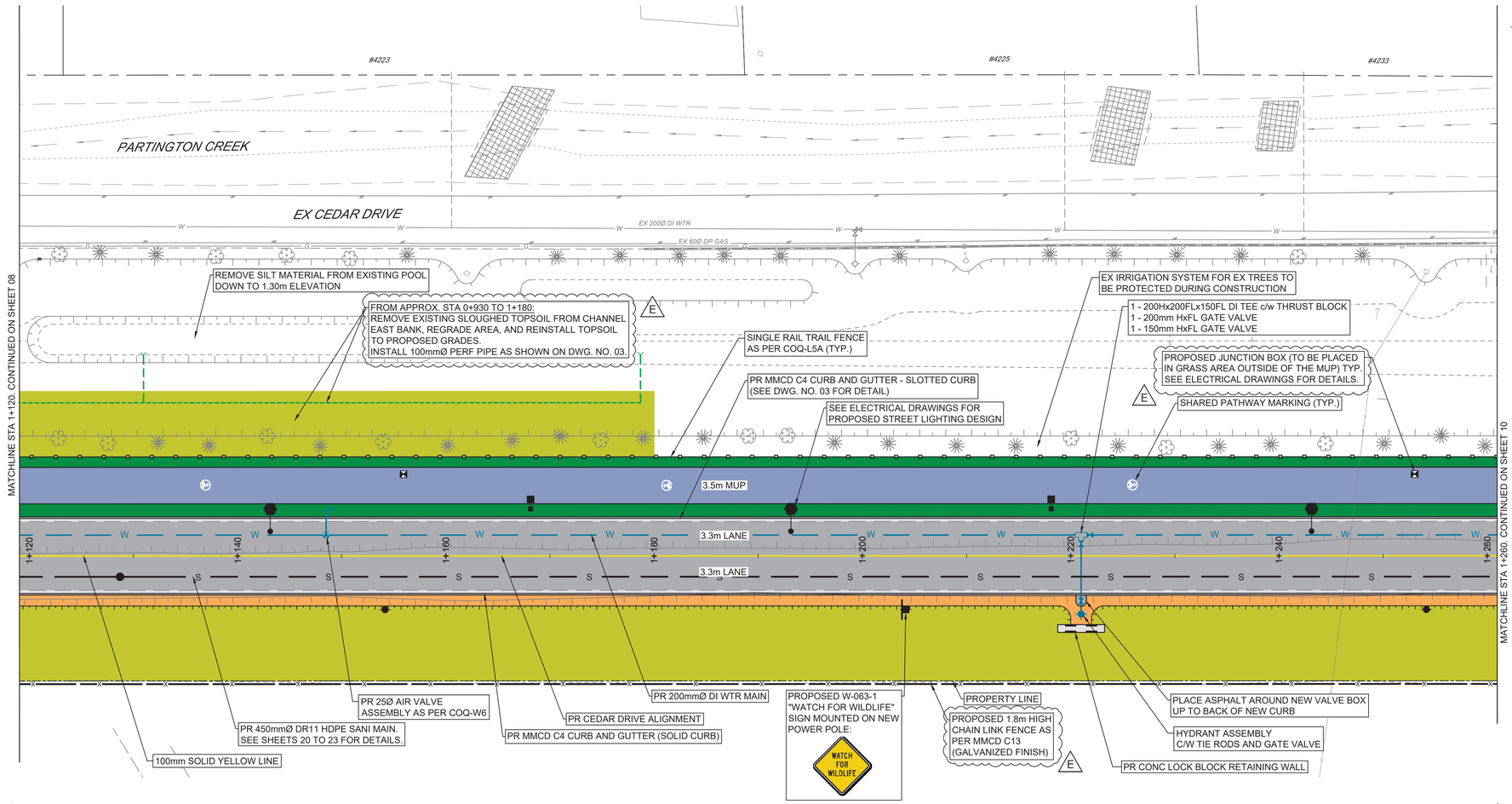


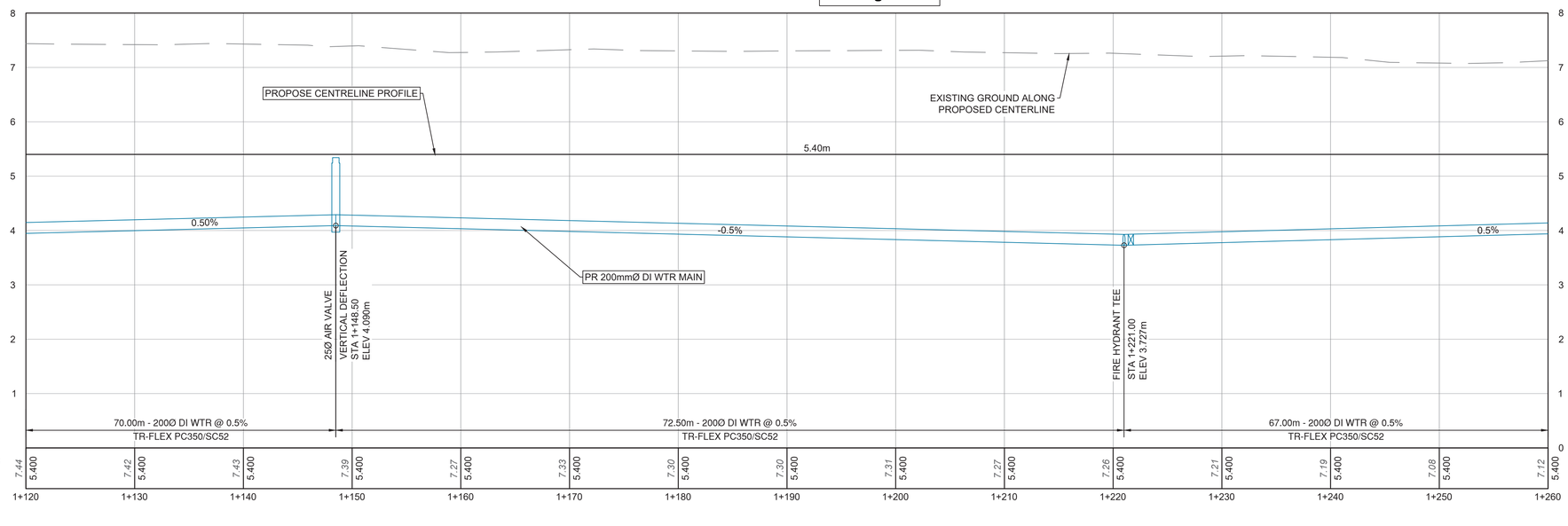


## SURFACE TREATMENT

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+670.00m | -3.00% | 3.00% |
| 1+380.00m | -3.00% | 3.00% |

1:250 (0, 5, 15m)

PLOT DATE: April 24, 2025

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| E | ADDENDUM #2 | 2025/04/24 | GA | CJB |

Coquitlam

ROAD + WATER

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

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G. DE SOUZA ATAIDE # 50849 ENGINEERING 2025-04-24

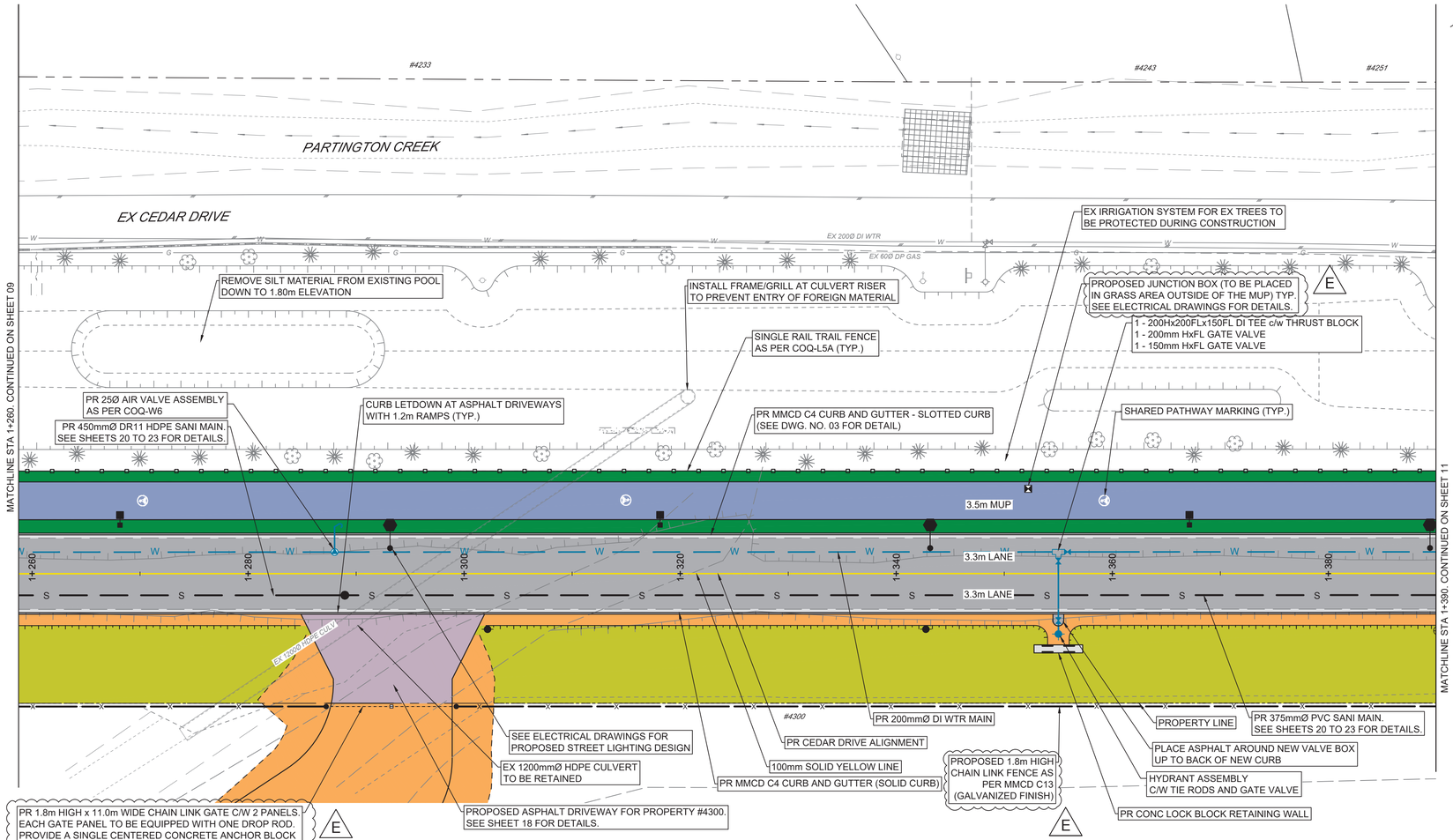
ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

ADDENDUM #2 DESIGN NO. 33527

| | | | |
|---|---|---|---|
| SCALE | 1:250 | CREATION DATE | OCT - 2023 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |

DWG. NO. 09 OF 42 REV. E

File: c:\ADSK\ACCDocs\ISL\332628_coq_cedardrive-phase1roadworks\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\332628_SH_Roadworks_and_Water_Phase_1.dwg




## 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+670.00m | -3.00% | 3.00% |
| 1+380.00m | -3.00% | 3.00% |
| 1+423.50m | 3.00% | -3.00% |

1:250 (0, 5, 15m)

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
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| D | ISSUED FOR TENDER | 2025/04/07 | GA | CJB |
| E | ADDENDUM #2 | 2025/04/24 | GA | CJB |

Coquitlam

ROAD + WATER

# STA 1+260 TO 1+390
## CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER — G. DE SOUZA ATAIDE — # 50549 — ENGINEERING — 2025-04-24

ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

ADDENDUM #2 DESIGN NO. 33527

| | | | |
|---|---|---|---|
| SCALE | 1:250 | CREATION DATE | OCT - 2023 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |
| | | | DWG. NO. 10 OF 42 REV. E |

File: c:\ADS\KACCD\ocn\ISL\33828_coq_cedardrive-phase1\roadworks\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\32828_SH_Roadworks_and_Water_Phase_1.dwg

EX IRRIGATION SYSTEM FOR EX TREES TO BE PROTECTED DURING CONSTRUCTION. LOCATION OF EXISTING METER AND VALVES IS APPROXIMATE.

TIE IN NEW 60Ø DP GAS MAIN TO EXISTING GAS MAIN (BY OTHERS)

BC HYDRO TO REMOVE EXISTING POLE

INSTALL FLAP GATE TO CREEK END OF THE CULVERT

PR 200mmØ CULVERT VERTICAL INLET

PR 200mmØ PVC CULVERT

EXISTING CULVERT TO BE REMOVED

BC HYDRO TO REMOVE EXISTING POLE

PR 200mmØ PVC CULVERT

PROPOSED CULVERTS. SEE SHEET 25 AND 26 FOR DETAILS.

TIE INTO EX 200Ø DI WTR WITH 2 - 45° DI BENDS c/w THRUST BLOCKS

SAND BAGS (BY OTHERS - FOR SEDIMENT POND MAINTENANCE)

PROPOSED GRAVEL ACCESS ROAD FOR SEDIMENT TRAP POND MAINTENANCE

REMOVE EX FIRE HYDRANT

#4251

PROPOSED SEDIMENT TRAP POND. SEE SHEET 25 FOR DETAILS.

PARTINGTON CREEK

EXISTING WATER AND GAS MAINS TO BE REMOVED

PROPOSED W-063-1 "WATCH FOR WILDLIFE" SIGN MOUNTED ON NEW STREETLIGHT:

WATCH FOR WILDLIFE

PROPOSED ROAD TIE-IN. SEE SHEET 15 FOR DETAILS.

SEE ELECTRICAL DRAWINGS FOR PROPOSED STREET LIGHTING DESIGN

PR 250mmØ PVC CULVERT

PROPOSED 1.8m HIGH CHAIN LINK FENCE AS PER MMCD C13 (GALVANIZED FINISH)

EX 200Ø PVC CULV.

EX CEDAR DRIVE

EX 200Ø DI WTR

EX 600Ø DP GAS

TIE IN NEW 60Ø DP GAS MAIN TO EXISTING GAS MAIN (BY OTHERS)

EX 450Ø PVC CULV.

PR WATER METER AS PER COQ WATER METER SPECIFICATIONS DETAILED DRAWING WM-2. CONNECT TO EXISTING WATER LINE ON PRIVATE PROPERTY SIDE OF NEW METER. (WATER METER TO BE INSTALLED BY THE CITY)

#4265

REMOVE EXISTING WATER SERVICE

CONNECT NEW 25mm MUNICIPEX PIPE WATER SERVICE TO PR WATERMAIN AS PER COQ-W2d

EXISTING TREE TO BE REMOVED

PROPOSED ASPHALT DRIVEWAY FOR PROPERTY #4265. SEE SHEET 19 FOR DETAILS.

PROPOSED JUNCTION BOX (TO BE PLACED IN GRASS AREA OUTSIDE OF THE MUP) TYP SEE ELECTRICAL DRAWINGS FOR DETAILS.

SHARED PATHWAY MARKING (TYP.)

PR. 4.25m WIDE CHAIN LINK GATE (1 GATE PANEL)

3.0m

3.5m MUP

PR MMCD C4 CURB AND GUTTER (SOLID CURB)

SINGLE RAIL TRAIL FENCE AS PER COQ-L5A (TYP.)

3.3m LANE

3.3m LANE

R125.0

SLOTTED CURB

SOLID CURB

SOLID CURB

SLOTTED CURB

MATCHLINE STA 1+390. CONTINUED ON SHEET 10

MATCHLINE STA 1+530. CONTINUED ON SHEET 12

PR 60Ø DP GAS MAIN (BY OTHERS)

#4300

PROPOSED PUSH BRACE (TYP.)

PR CEDAR DRIVE ALIGNMENT

PR SWALE

PR 200mmØ DI WTR MAIN

1 - 200Hx200FLx150FL DI TEE c/w THRUST BLOCK
1 - 200mm HxFL GATE VALVE
1 - 150mm HxFL GATE VALVE

PR 375mmØ PVC SANI MAIN. SEE SHEETS 20 TO 23 FOR DETAILS.

100mm SOLID YELLOW LINE

25Ø AIR VALVE ASSEMBLY AS PER COQ-W6

HYDRANT ASSEMBLY C/W TIE RODS AND GATE VALVE

1 - 200Hx200FLx200FL DI TEE c/w THRUST BLOCK
2 - 200mm HxFL GATE VALVES

PLACE ASPHALT AROUND NEW VALVE BOX UP TO BACK OF NEW CURB

PR CONCRETE LETDOWN AS PER COQ-C7B (TYP.)

PR 6.0m - 300mmØ SDR35 PVC CULVERT

PR MMCD C4 CURB AND GUTTER - SLOTTED CURB (SEE DWG. NO. 03 FOR DETAIL)

BC HYDRO TO REMOVE EX POWER POLE

PROPERTY LINE

END PROPOSED 1.8m HIGH CHAIN LINK FENCE AT STA 1+520.00

PROPOSED 1.8m HIGH CHAIN LINK FENCE AS PER MMCD C13 (GALVANIZED FINISH)

PROPOSED POWER POLE (TYP.)

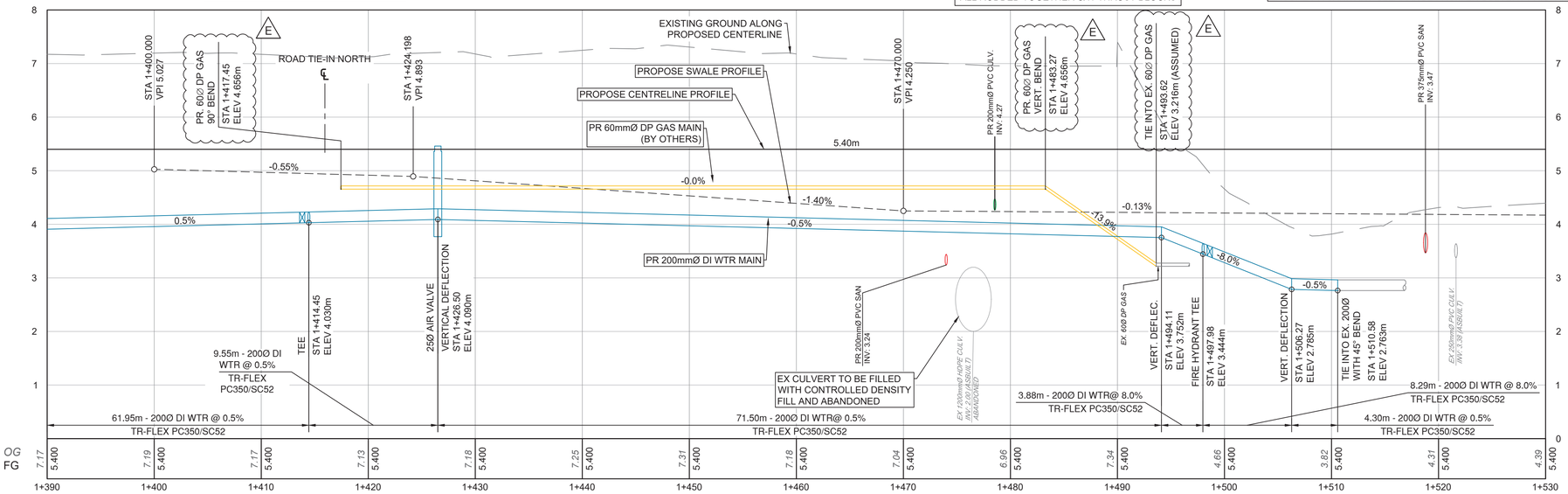
PROPOSED ANCHOR AND GUY WIRE (TYP.)

CURVE DATA
Radius = 125.00m
Arc = 122.70m
Chord = 117.83m
PI DATA
Δ = 56°14'31"
Station = 1+491.00
Northing = 5462307.983
Easting = 520662.720

TIE INTO EX. 200Ø DI WTR WITH:
1 - 200Ø DI HxH 45° BEND
1 - 200Ø DI COUPLER
ALL RODDED TOGETHER C/W THRUST BLOCKS

CONTRACTOR TO PRE-LOCTATE AND FILL EX 1200mmØ HDPE CULVERT (LENGTH = ±115m) WITH CONTROLLED DENSITY FILL. CDF COMPREHENSIVE STRENGTH AS PER MMCD SPECIFICATIONS (UP TO 1 MPa IS ALLOWED). ENSURE PR SANITARY CLEARANCE FROM EX CULVERT PRIOR TO FILLING WITH CDF.

| 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)
- 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

1:250 (0, 5, 15m)

PLOT DATE: April 24, 2025

ADDENDUM #2 DESIGN NO. 33527

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
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| E | ADDENDUM #2 | 2025/04/24 | GA | CJB |

Coquitlam

ROAD + WATER

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

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G. DE SOUZA ATAIDE # 50849 ENGINEER 2025-04-24

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DWG. NO. 11 OF 42 REV. E

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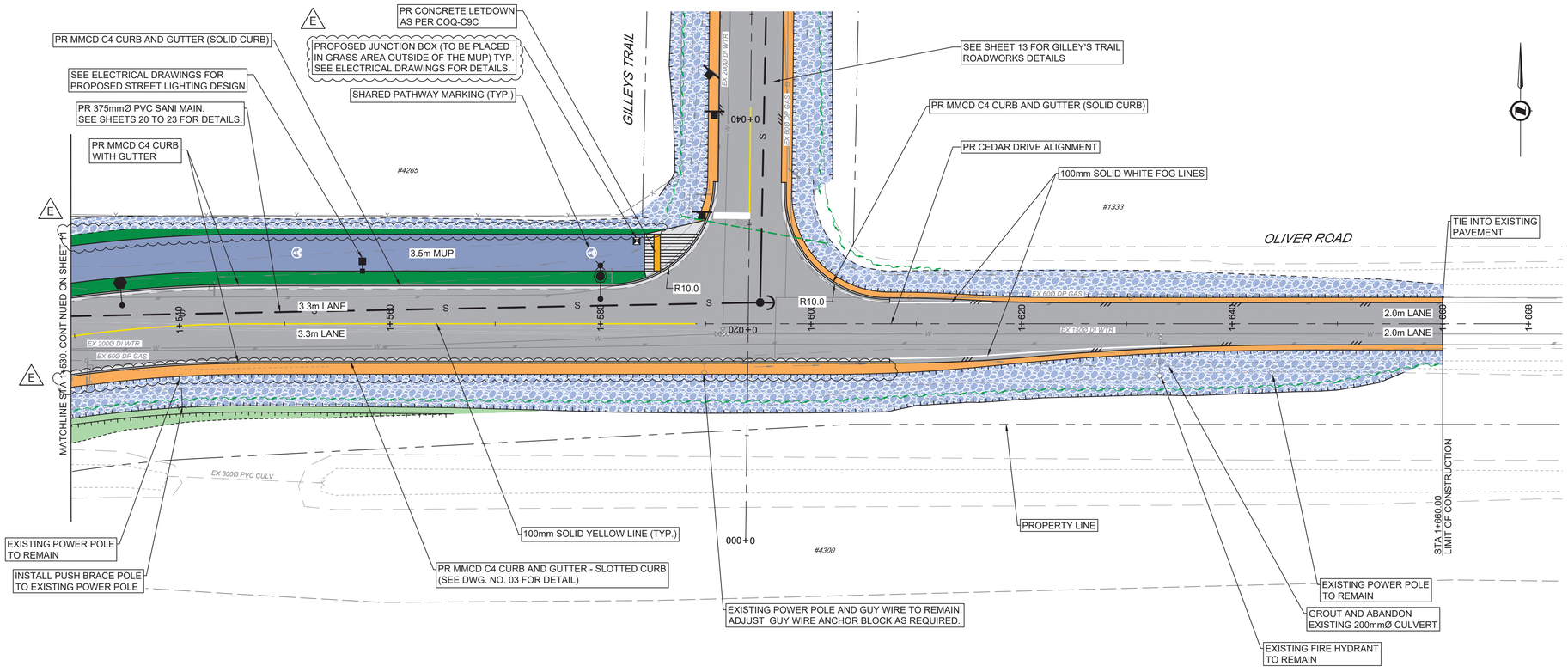



## SURFACE TREATMENT

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

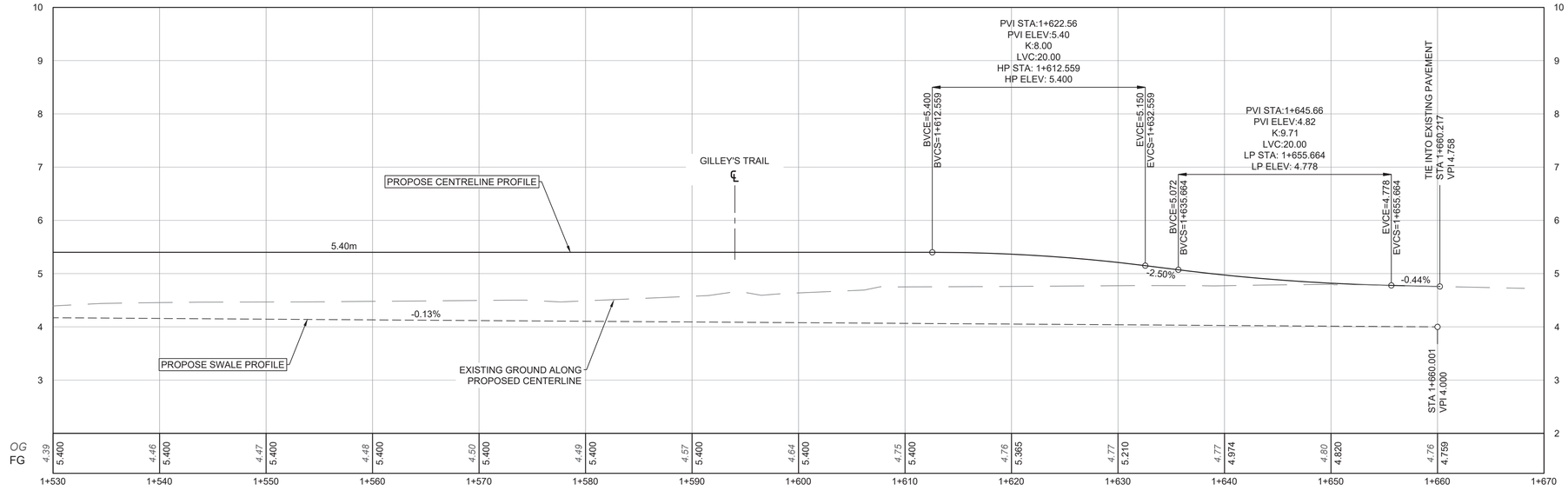
150mm TOPSOIL AND SODDING

100mm TOPSOIL AND HYDROSEED

CONCRETE

RIPARIAN PLANTING
- SEE SHEETS 27 TO 32 FOR DETAILS

| SUPERELEVATION TABLE | | |
|---|---|---|
| CEDAR DRIVE | | |
| Station | Left Lane | Right Lane |
| 1+423.50m | 3.00% | -3.00% |
| 1+546.20m | 3.00% | -3.00% |
| 1+575.00m | 0.50% | -0.50% |
| 1+610.00m | 0.50% | -0.50% |
| 1+660.00m | Meet (Approx. 1.5%) | Meet (Approx. -3.6%) |

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PLOT DATE: April 24, 2025

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Coquitlam

ROAD + WATER

# STA 1+530 TO 1+670

## CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER — G. DE SOUZA ATAIDE # 50849 — PROFESSIONAL ENGINEER — 2025-04-24

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| | | | REV. E |

DWG. NO. 12 OF 42

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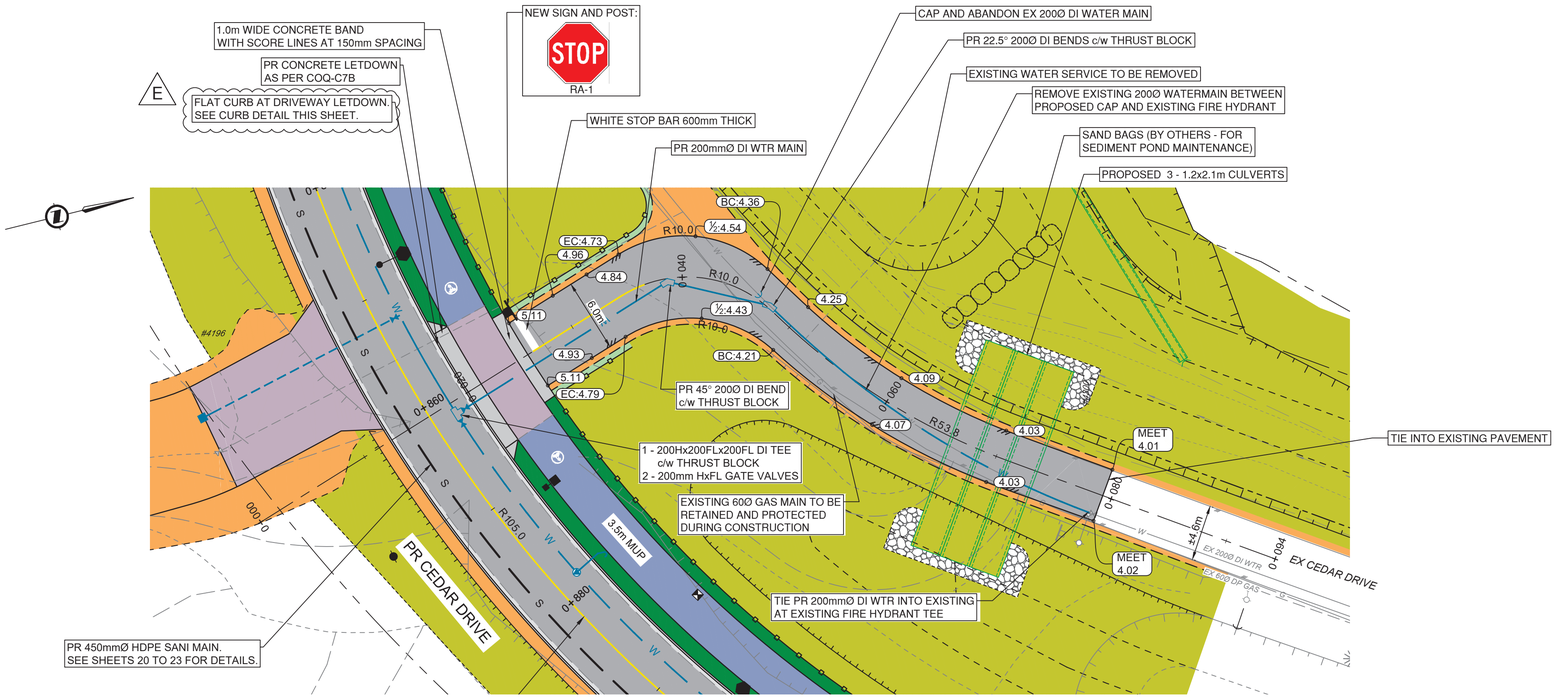



## SURFACE TREATMENT

**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**

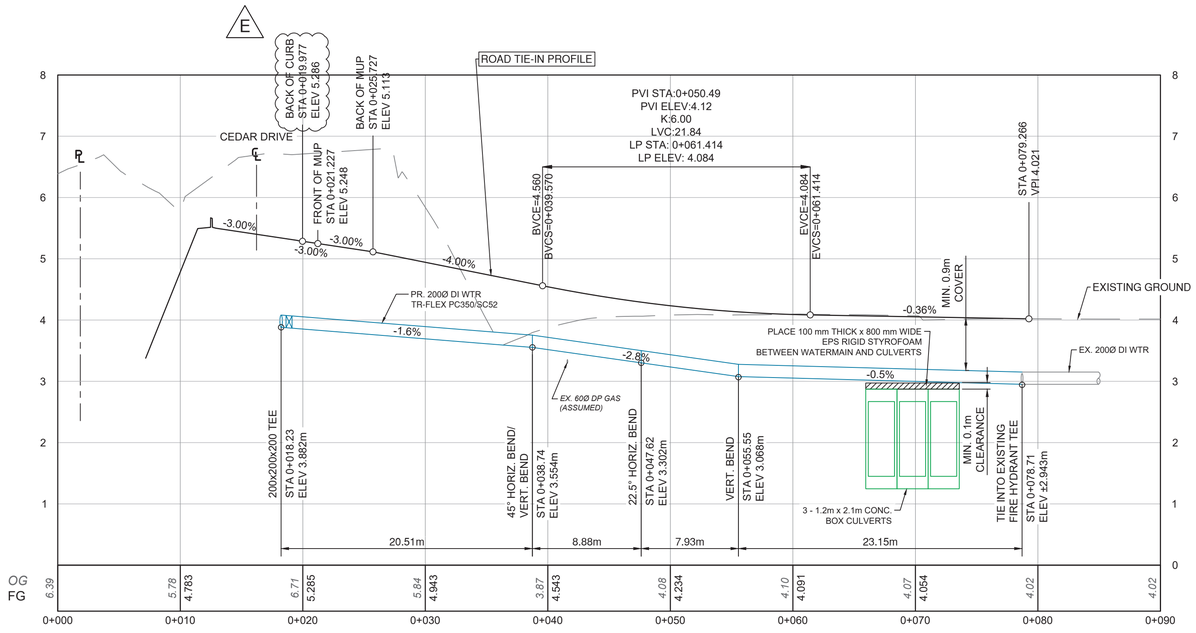
**150mm TOPSOIL AND SODDING**

**100mm TOPSOIL AND HYDROSEED**

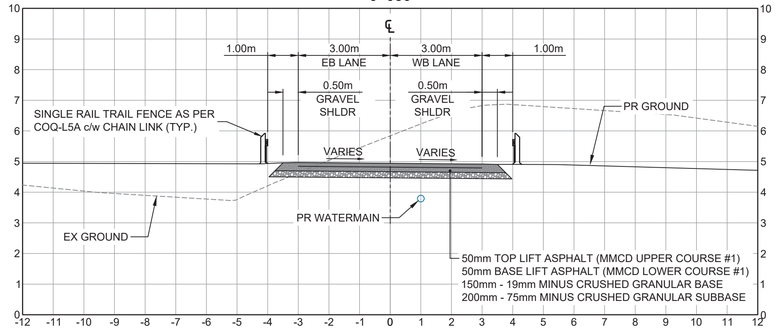
**CONCRETE**

**RIPARIAN PLANTING**
- SEE SHEETS 27 TO 32 FOR DETAILS

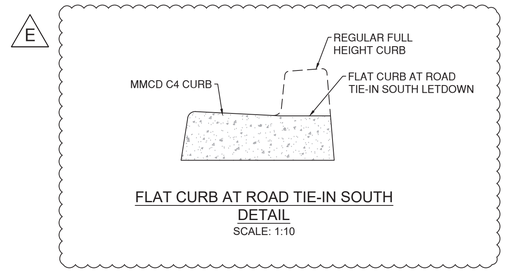
## ROAD TIE-IN SOUTH - SITE PLAN
SCALE: 1:250




## ROAD TIE-IN SOUTH - PROFILE VIEW
SCALE: 1:250H / 1:50V




## ROAD TIE-IN SOUTH - TYPICAL SECTION
SCALE: 1:100




## FLAT CURB AT ROAD TIE-IN SOUTH DETAIL
SCALE: 1:10

PLOT DATE: April 24, 2025

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Coquitlam

ROAD + WATER

# ROAD TIE-IN SOUTH
## CEDAR DRIVE UPGRADES - PHASE 2

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DWG. NO. 14 OF 42 REV. E

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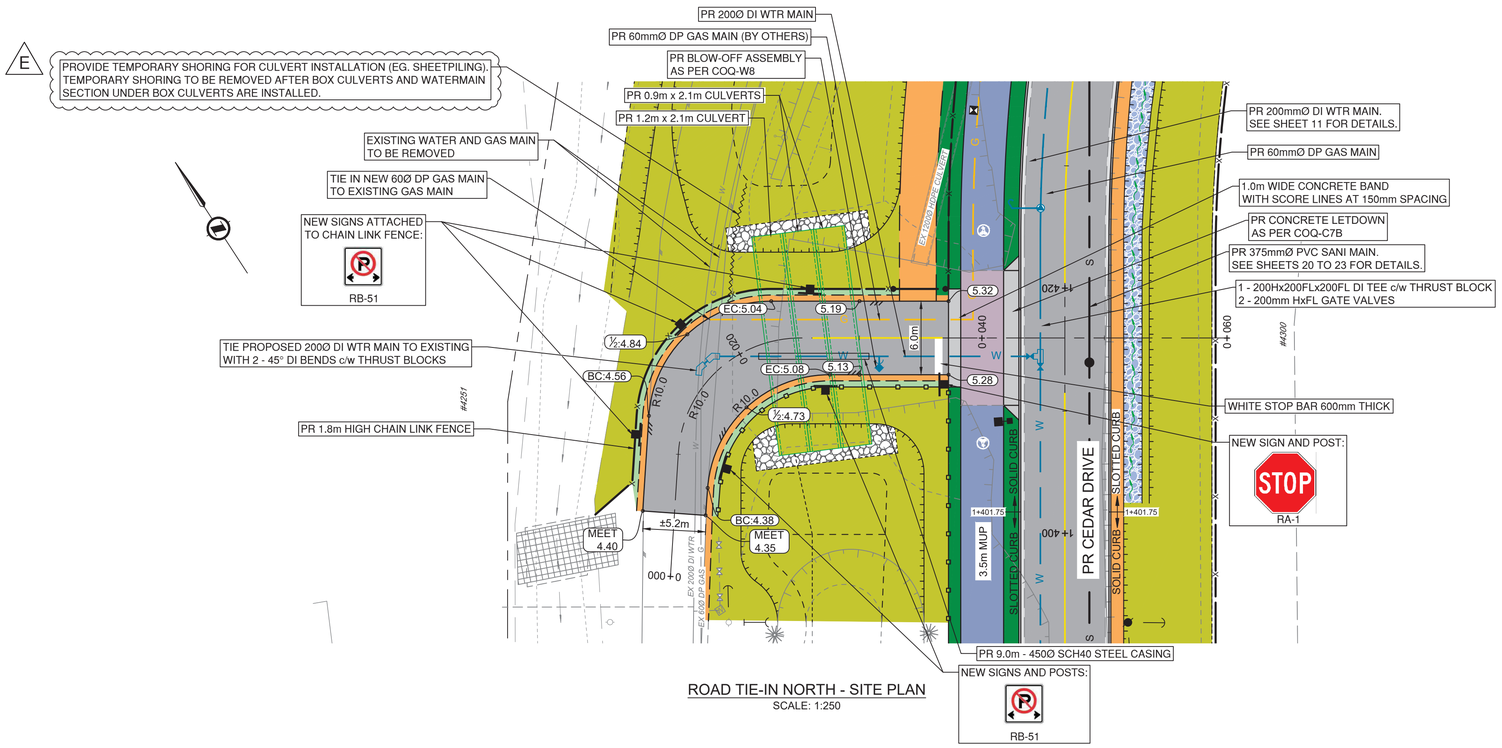


ROAD TIE-IN NORTH - SITE PLAN
SCALE: 1:250

## 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

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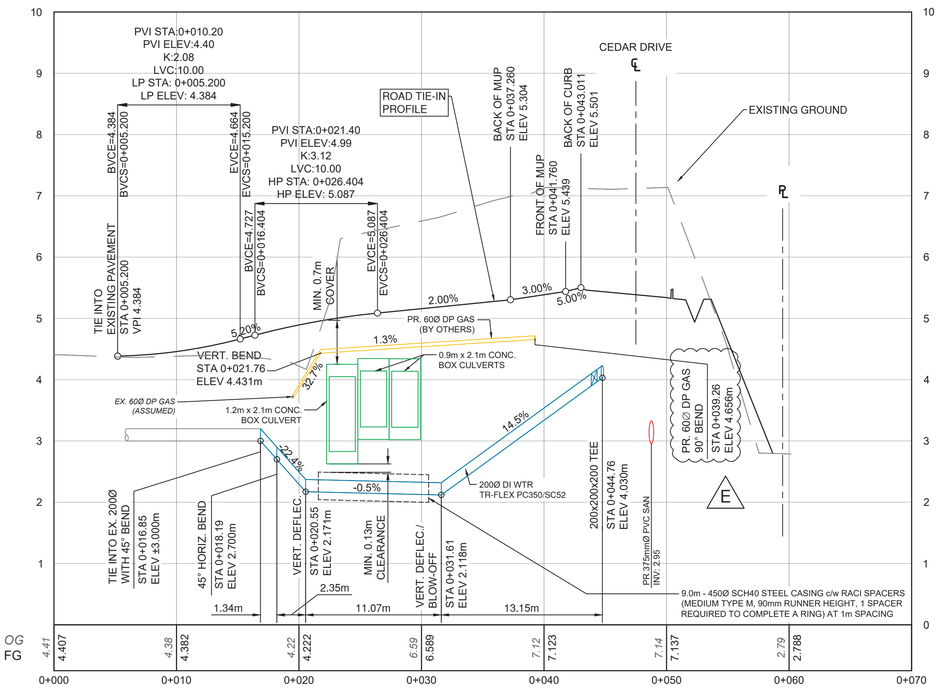
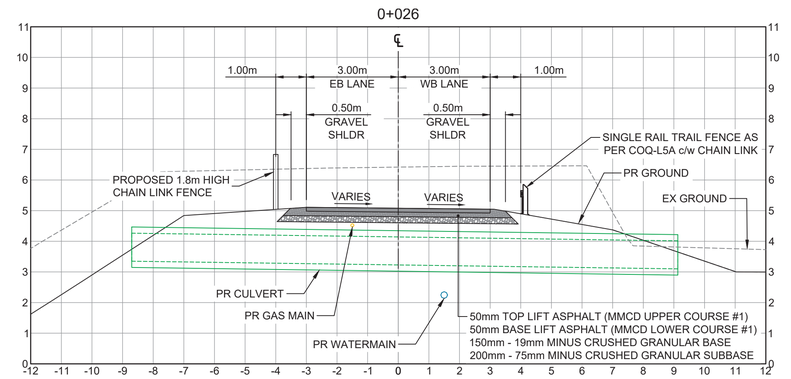
CONCRETE

RIPARIAN PLANTING
- SEE SHEETS 27 TO 32 FOR DETAILS




ROAD TIE-IN NORTH - PROFILE VIEW
SCALE: 1:250H / 1:50V




ROAD TIE-IN NORTH - TYPICAL SECTION
SCALE: 1:100

1:250 0 5 15m

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ROAD + WATER

# ROAD TIE-IN NORTH
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DWG. NO. 15 OF 42 REV. E

ADDENDUM #2 DESIGN NO. 33527

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## 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:

1. SITE PREPARATION WILL BE UNDERTAKEN ONLY UNDER THE FULL-TIME SUPERVISION OF THE EM.
2. PLANTING SITE PREPARATION MUST NOT BE UNDERTAKEN WITHOUT THE EM ONSITE.
3. PRIOR TO CONSTRUCTION THE ENVIRONMENTAL MONITOR (EM) MUST DEMARCATE 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.
4. THE FLAGGED BOUNDARY WILL BE POSTED WITH TEMPORARY SIGNAGE INDICATING THAT THERE IS TO BE NO DISTURBANCE OF ANY KIND BEYOND THE FENCED BOUNDARY.
5. THE EM WILL MONITOR THE BOUNDARY AT REGULAR INTERVALS TO CONFIRM THAT WORKERS HAVE NOT EXTENDED CONSTRUCTION BEYOND THE DEMARCATED BOUNDARY.
6. MACHINERY IS TO BE OPERATED FROM SWAMP PADS IF TERRAIN IS TOO UNSTABLE TO SUPPORT MACHINE TRACKS .
7. 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:

1. SITE PREPARATION WILL BE UNDERTAKEN ONLY UNDER THE FULL-TIME SUPERVISION OF THE EM.
2. HIMALAYAN BLACKBERRY AND REED CANARY GRASS WILL BE EXCAVATED TO ROOTING DEPTH EXPOSING UNDERLYING MINERAL SOILS THAT ARE FREE OF ROOT MATERIAL.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING THE DEPTH OF THE EXCAVATION NECESSARY TO EXPOSE ROOT FREE SOIL.
4. JAPANESE KNOTWEED HAS BEEN IDENTIFIED AT VARIOUS LOCATIONS ALONG THE EXISTING EMBANKMENT OF PARTINGTON CREEK.
5. THE EM IS RESPONSIBLE FOR FLAGGING THE PERIMETER OF THESE AREAS PRIOR TO VEGETATION OR GROUND DISTURBANCE ACTIVITIES.
6. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING A JAPANESE KNOTWEED REMOVAL AND CONTROL PROGRAM
7. THE CONTRACTOR IS CAUTIONED THAT THE DEPTH AND BREADTH OF EXCAVATION NECESSARY TO REMOVE JAPANESE KNOTWEED IS SUBSTANTIAL.
8. 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.
9. 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:

B

1. IMMEDIATELY UPON COMPLETION OF FINE GRADING, ALL PLANTING AREAS MUST BE STABILIZED PER THE FOLLOWING DESCRIPTION:
2. THE CONTRACTOR WILL APPLY A FULLY BIODEGRADABLE EROSION CONTROL BLANKET ON ALL INSTREAM BENCHES AND EARTHEN SLOPES BELOW THE NEW TOP OF BANK.
3. 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:

B

**1. WARRANTY**

1.1. THE PROJECT REQUIRES A TWO YEAR WARRANTY ON ALL SOFTSCAPE WORK.

1.2. 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.

1.3. ESTABLISHMENT MAINTENANCE OF SOFT LANDSCAPES IS TO BE PROVIDED FROM TIME OF INSTALLATION TO TWO YEARS FROM SUBSTANTIAL COMPLETION OF WORKS.

1.4. THE CONTRACTOR WILL RETAIN A QEP 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.

1.5. THE CONTRACTOR WILL CONTROL COMPETING VEGETATION (I.E. LONG GRASS, INVASIVES ETC) TWICE PER ANNUM BY SOLELY MECHANICAL MEANS.

1.6. THE CONTRACTOR WILL REPLACE, AS REQUIRED, PROTECTIVE SMALL MAMMAL GUARDS ON PLANTED TREE STOCK.

1.7. THE CONTRACTOR WILL WATER PLANTS WEEKLY FROM JUNE 15 TO SEPTEMBER 15 FOR THE FIRST TWO YEARS AFTER PLANT INSTALLATION

1.8. THE CONTRACTOR WILL REPLACE DEAD OR MISSING PLANT MATERIAL IN THE SPRING AND FALL SEASON.

1.9. 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)

**2. PERMITS**

2.1. CONTRACTOR TO PROVIDE THE FOLLOWING PERMITS:
REFER TO TENDER DOCUMENTS

**3. FIELD LAYOUT AND SURVEY COORDINATION**

3.1. SITE LAYOUT TO BE BASED ON TSS (TOTAL STATIONING SURVEY) OR APPROVED EQUAL GPS METHOD TO ENSURE ACCURACY IN LAYOUT.

3.2. SITE LAYOUT AND SURVEY FILES CAN BE PROVIDED TO THE CONTRACTOR IN AUTOCAD FORMAT AT THE TIME OF CONSTRUCTION START-UP.

**4. SITE MOBILIZATION, STAGING, AND SAFETY**

4.1. PROVIDE MOD-U-LOCK FENCE OR APPROVED EQUAL AROUND THE LIMIT OF CONSTRUCTION AND PROTECT THE SITE AT ALL TIMES FROM PUBLIC ACCESS.

4.2. 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.

4.3. PROVIDE PROOF OF A BC-ONE (BC-1) CALL AT THE TIME OF CONSTRUCTION START-UP MEETING.

4.4. 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.

4.5. ENSURE TREE PROTECTION FENCING HAS BEEN REVIEWED PRIOR TO COMMENCING WORK.

**5. SOFT LANDSCAPES**

5.1. SOFT LANDSCAPE SUPPLY, SUBMITTALS, PREPARATION AND EXECUTION TO COMPLY WITH CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA). FULL DOCUMENT APPLIES.

5.2. ENSURE CONTRACTOR INSTALLING SOFT LANDSCAPES HAS A CURRENT COPY OF THE CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA) PRESENT ON SITE.

5.3. SUBMIT REQUEST FOR REVIEW BY CONSULTANT OF SITE SOFT LANDSCAPE FINE GRADING PRIOR TO INSTALLATION OF PLANT MATERIAL.

5.4. PLANTS AND TREES:

5.4.1. 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.

5.4.2. 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.

B

5.4.3. 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.

5.4.4. SUBMIT GROWING MEDIUM REPORT FOR REVIEW PRIOR TO ORDER OR INSTALLATION.

5.4.5. ALL PLANTING TO OCCUR IN THE PERIOD OF MARCH 15 TO MAY 1 OR SEPTEMBER 1 TO NOVEMBER 1.

5.5. MULCH:

B

5.5.1. TO BE COMPOSTED BARK, BROWN (NOT RED) IN COLOUR.

5.5.2. MULCH TO BE COMPLIANT WITH MMCD 32 93 01.

5.5.3. A ONE (1) LITRE MULCH SUBMITTAL IS REQUIRED FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.

5.5.4. DEPTH OF MULCH TO BE 100mm AFTER SETTLEMENT WITH COMPLETE COVERAGE.

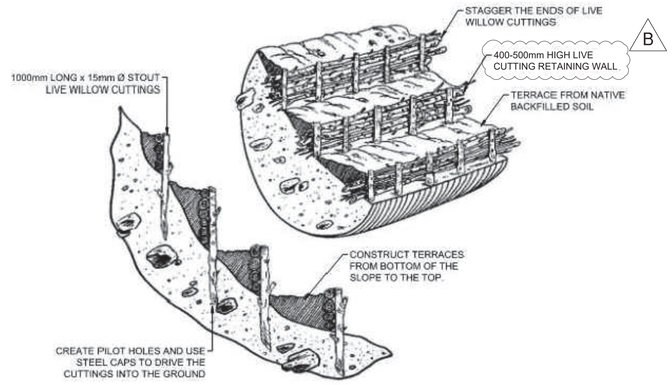
5.5.5. PROVIDE MULCH RING OF 1.2M DIAMETER AND COMPLIANT WITH BC LANDSCAPE STANDARDS FOR EACH NEW TREE.

5.6. 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.

5.7. ESTABLISHMENT MAINTENANCE AND WATERING: REFER TO SECTION 1.0 OF THESE LANDSCAPE NOTES.

**6. STREAM BED INSTALLATION**

6.1. INSTALLATION OF CHANNEL SUBSTRATE AND THALWEG TO OCCUR UNDER FULL-TIME SUPERVISION OF EM




1 / 27 TYPICAL WATTLE FENCE PLANTING
DETAIL NTS

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ISSUED FOR TENDER | 2025/04/07 | ML | AR |
| B | ADDENDUM #2 | 2025/04/24 | ML | AR |
| | | | | AR |
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| | | | | |

Coquitlam

# PARTINGTON CREEK ENHANCEMENT HABITAT
## CEDAR DRIVE UPGRADES - PHASE 2

REGISTERED PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA ANDREW B. ROBERTSON 372 MECHANICAL ENGINEER

ISL
#503, 4190 Lougheed Hwy, Burnaby, B.C. V5C 6A8
T: (604)629-2696 F: (604)629-2698

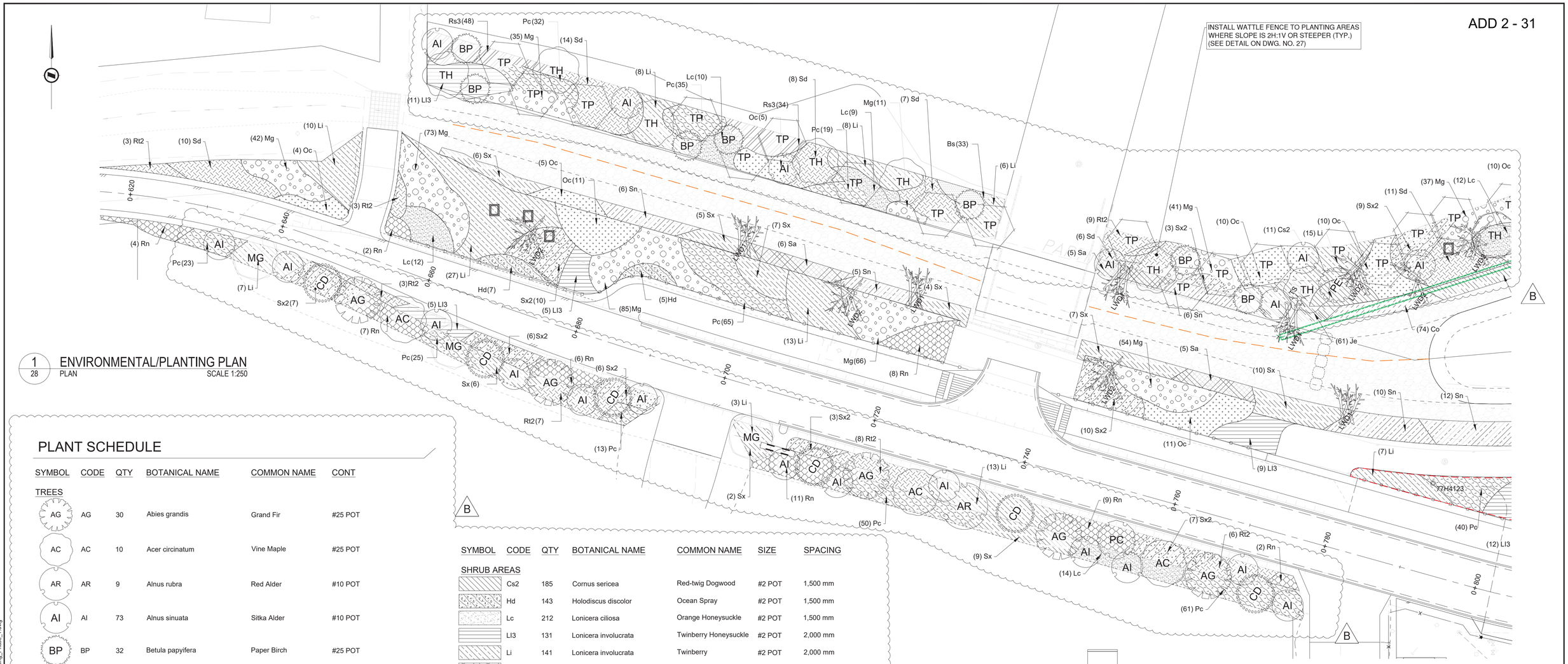
ADDENDUM #2 DESIGN NO. 33527

| | | | |
|---|---|---|---|
| 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. E

File: c:\ADSKACCDocs\ISL\32628_coq_cedardrive-phase1roadworks\project files\02_CADD\20_drafting\003_sheets\phase 1 and 2 - cedar drive upgrades\32628_SH_Environmental_Planting_Phase_1.dwg

INSTALL WATTLE FENCE TO PLANTING AREAS WHERE SLOPE IS 2H:1V OR STEEPER (TYP.) (SEE DETAIL ON DWG. NO. 27)

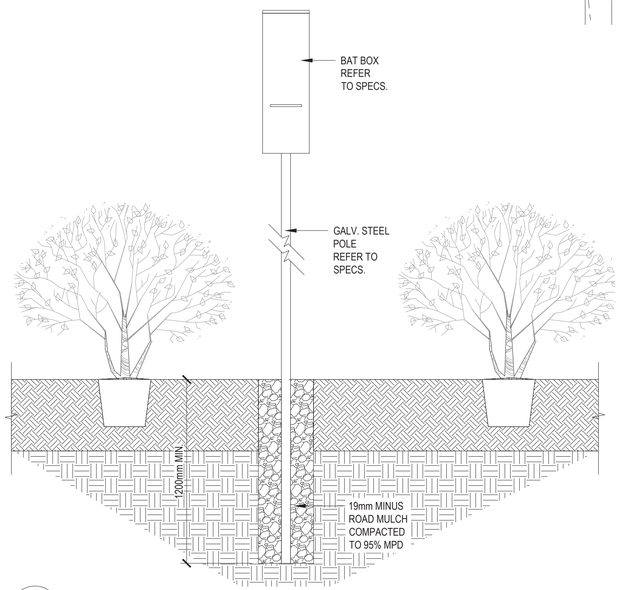



1 / 28 ENVIRONMENTAL/PLANTING PLAN
PLAN SCALE 1:250

## PLANT SCHEDULE

| SYMBOL | CODE | QTY | BOTANICAL NAME | COMMON NAME | CONT |
|---|---|---|---|---|---|
| **TREES** | | | | | |
| AG | AG | 30 | Abies grandis | Grand Fir | #25 POT |
| AC | AC | 10 | Acer circinatum | Vine Maple | #25 POT |
| AR | AR | 9 | Alnus rubra | Red Alder | #10 POT |
| AI | AI | 73 | Alnus sinuata | Sitka Alder | #10 POT |
| BP | BP | 32 | Betula papyifera | Paper Birch | #25 POT |
| CN | CN | 15 | Cornus nuttallii | Pacific Dogwood | #25 POT |
| CD | CD | 31 | Crataegus douglasii | Black Hawthorn | #10 POT |
| MG | MG | 13 | Malus fusca | Oregon Crab Apple | #25 POT |
| PG | PG | 6 | Picea glauca | White Spruce | #25 POT |
| PC | PC | 27 | Pinus contorta | Shore Pine | #25 POT |
| PE | PE | 20 | Prunus emarginata | Bitter Cherry | #25 POT |
| PD | PD | 16 | Pseudotsuga menziesii | Douglas Fir | #25 POT |
| QG | QG | 6 | Quercus garryana | Garry Oak | #25 POT |
| TP | TP | 52 | Thuja plicata | Western Red Cedar | #25 POT |
| TH | TH | 17 | Tsuga heterophylla | Western Hemlock | #25 POT |

| SYMBOL | CODE | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING |
|---|---|---|---|---|---|---|
| **SHRUB AREAS** | | | | | | |
| Cs2 | Cs2 | 185 | Cornus sericea | Red-twig Dogwood | #2 POT | 1,500 mm |
| Hd | Hd | 143 | Holodiscus discolor | Ocean Spray | #2 POT | 1,500 mm |
| Lc | Lc | 212 | Lonicera ciliosa | Orange Honeysuckle | #2 POT | 1,500 mm |
| Ll3 | Ll3 | 131 | Lonicera involucrata | Twinberry Honeysuckle | #2 POT | 2,000 mm |
| Li | Li | 141 | Lonicera involucrata | Twinberry | #2 POT | 2,000 mm |
| Mg | Mg | 1,334 | Myrica gale | Sweetgale | #2 POT | 900 mm |
| Oc | Oc | 130 | Oemleria cerasiformis | Indian Plum | #2 POT | 2,000 mm |
| Oh | Oh | 140 | Oplopanax horridus | Devil's Club | #2 POT | 2,000 mm |
| Pc | Pc | 1,264 | Physocarpus capitatus | Pacific Ninebark | #2 POT | 900 mm |
| Rs3 | Rs3 | 170 | Ribes sanguineum | Red-flowering Currant | #2 POT | 900 mm |
| Rn | Rn | 1,338 | Rosa nutkana | Nootka Rose | #2 POT | 900 mm |
| Rt2 | Rt2 | 228 | Rubus parviflorus | Thimbleberry | #2 POT | 2,000 mm |
| Rs4 | Rs4 | 134 | Rubus spectabilis | Salmonberry | #2 POT | 2,000 mm |
| Sn | Sn | 141 | Salix hookeriana | Hooker's Willow | Live Stake | 2,000 mm |
| Sx | Sx | 357 | Salix x `Scouleriana` | Scouler`s Willow | Live Stake | 2,000 mm |
| Sd | Sd | 176 | Spiraea douglasii | Hardhack | #2 POT | 2,000 mm |
| Sx2 | Sx2 | 352 | Symphoricarpos x albus | Common Snowberry | #2 POT | 2,000 mm |
| **GROUND COVERS** | | | | | | |
| Bs | Bs | 269 | Blechnum spicant | Deer Fern | #2 POT | 600 mm |
| Co | Co | 711 | Carex obnupta | Slough Sedge | #2 POT | 600 mm |
| Je | Je | 154 | Juncus effusus | Soft Rush | #2 POT | 600 mm |
| Pm | Pm | 454 | Polystichum munitum | Western Sword Fern | #2 POT | 600 mm |
| Sa | Sa | 802 | Scirpus acutus | Hardstem Bulrush | #2 POT | 600 mm |
| Sm | Sm | 691 | Scirpus microcarpus | Small-fruited Bulrush | #2 POT | 600 mm |
| Ud | Ud | 288 | Urtica dioica | Stinging Nettle | #2 POT | 600 mm |




2 / 28 BAT BOX
ELEVATION SCALE 1:20

LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | COARSE WOODY DEBRIS |
| | LARGE WOODY DEBRIS TYPE 1 |
| | LARGE WOODY DEBRIS TYPE 2 |
| | BAT BOX |
| | GRAVEL AND BOULDERS |
| | THALWEG |
| | COMPOSTED BARK MULCH |

1:250 0 5 15m

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ISSUED FOR TENDER | 2025/04/07 | ML | AR |
| B | ADDENDUM #2 | 2025/04/24 | ML | AR |
| | | | | AR |

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# PARTINGTON CREEK ENHANCEMENT HABITAT
## OFF-SETTING/PLANTING PLAN

REGISTERED PROFESSIONAL ARCHAEOLOGIST PROVINCE OF BRITISH COLUMBIA ANDREW B. ROBERTSON 372

ISL
#503, 4190 Lougheed Hwy, Burnaby, B.C. V5C 6A8
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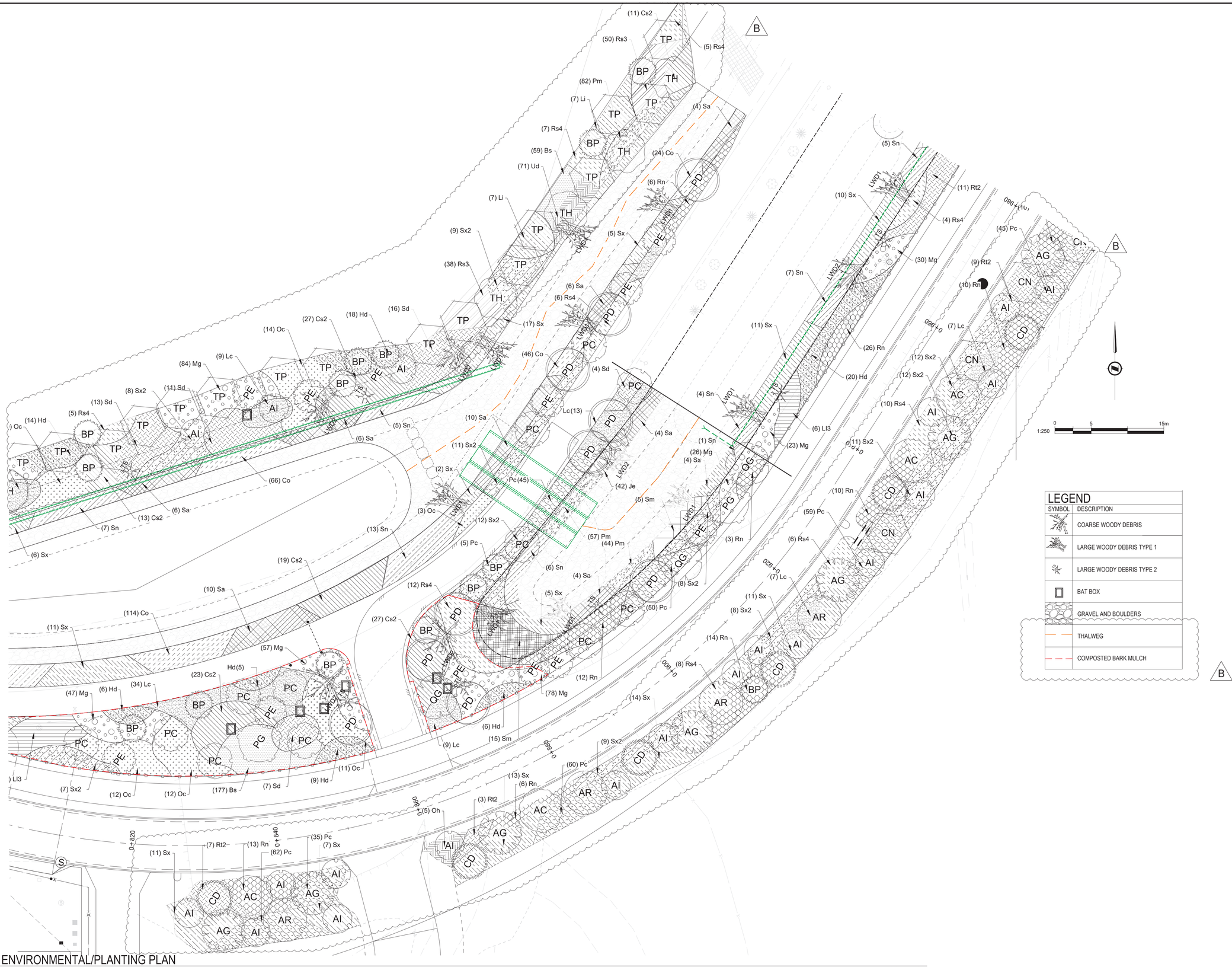
ADDENDUM #2 DESIGN NO. 33527

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

DWG. NO. 28 OF 42 REV. E

File: c:\ADSKACCDocs\ISL\32628_coq_cedardrive-phase1\roadworks\project files\02_CADD\20_drafting\003_sheets\phase 1 and 2 - cedar drive upgrades\32628_SH_Environmental_Planting_Phase_1.dwg




## LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | COARSE WOODY DEBRIS |
| | LARGE WOODY DEBRIS TYPE 1 |
| | LARGE WOODY DEBRIS TYPE 2 |
| | BAT BOX |
| | GRAVEL AND BOULDERS |
| | THALWEG |
| | COMPOSTED BARK MULCH |

1 / 29 ENVIRONMENTAL/PLANTING PLAN
PLAN

SCALE 1:250

PLOT DATE: April 24, 2025

ADDENDUM #2 DESIGN NO. 33527

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ISSUED FOR TENDER | 2025/04/07 | ML | AR |
| B | ADDENDUM #2 | 2025/04/24 | ML | AR |
| | | | | AR |

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# PARTINGTON CREEK ENHANCEMENT HABITAT

## OFF-SETTING/PLANTING PLAN

REGISTERED PROFESSIONAL BIOLOGIST PROVINCE OF BRITISH COLUMBIA ANDREW B. ROBERTSON REGISTERED BIOLOGIST 372

ISL
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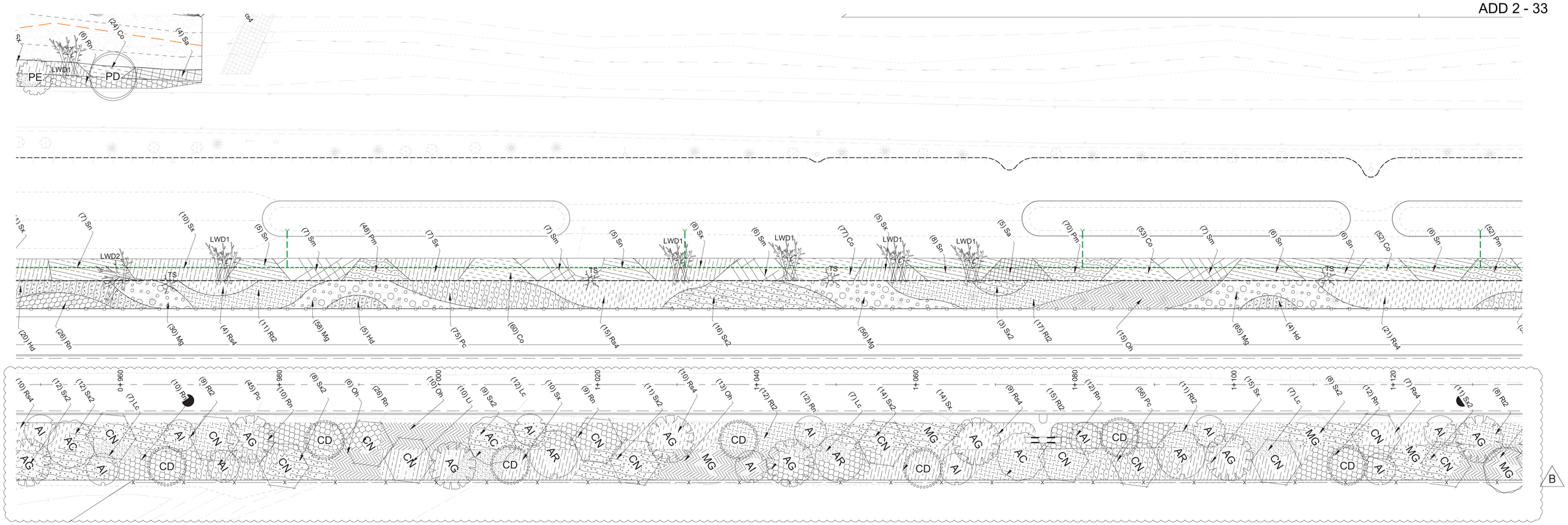
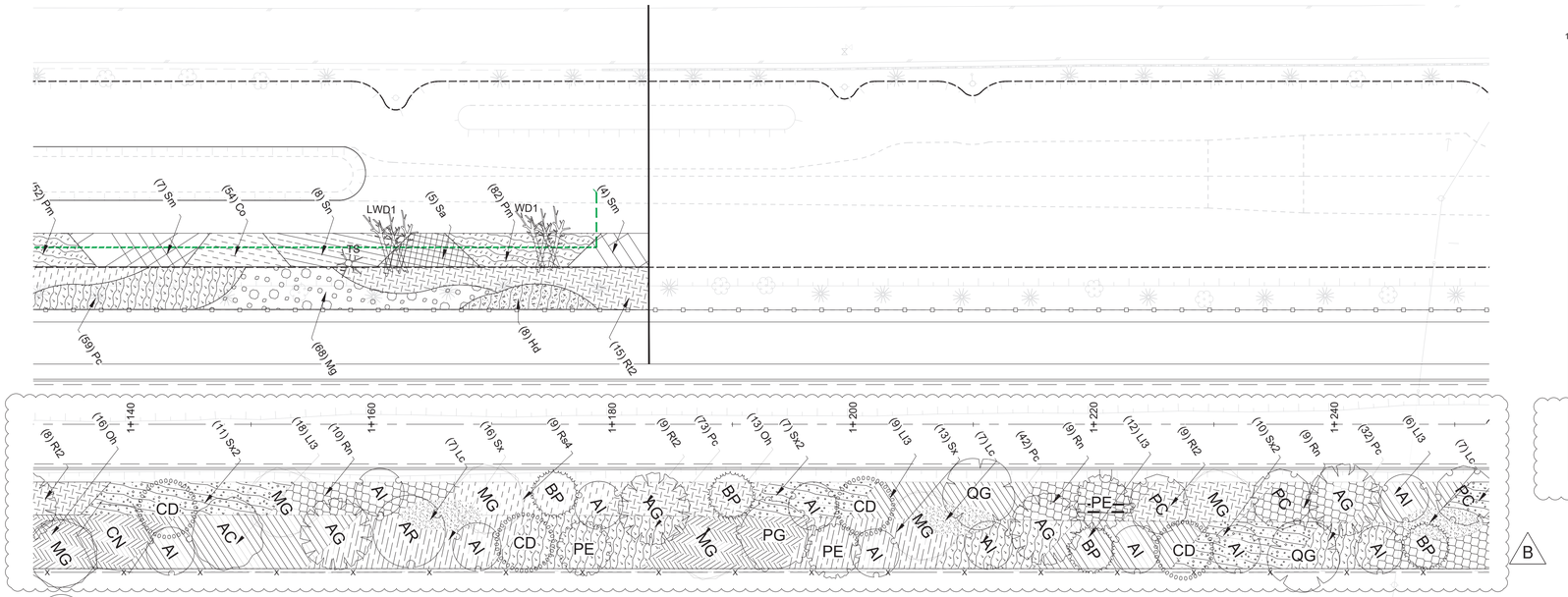
| | | | |
|---|---|---|---|
| SCALE | AS SHOWN | CREATION DATE | NOV - 2023 |
| DRAWN BY | ML | DESIGN BY | AR |
| CHECKED BY | AR | APPROVED BY | AR |
| | | | REV. E |

DWG. NO. 29 OF 42




1:250 0 5 15m

LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | COARSE WOODY DEBRIS |
| | LARGE WOODY DEBRIS TYPE 1 |
| | LARGE WOODY DEBRIS TYPE 2 |
| | BAT BOX |
| | GRAVEL AND BOULDERS |
| | THALWEG |
| | COMPOSTED BARK MULCH |

1 / 30 ENVIRONMENTAL/PLANTING PLAN
PLAN

SCALE 1:250

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ISSUED FOR TENDER | 2025/04/07 | ML | AR |
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# PARTINGTON CREEK ENHANCEMENT HABITAT

## OFF-SETTING/PLANTING PLAN

#503, 4190 Lougheed Hwy, Burnaby, B.C. V5C 6A8
T: (604)629-2696 F: (604)629-2698

ADDENDUM #2 DESIGN NO. 33527

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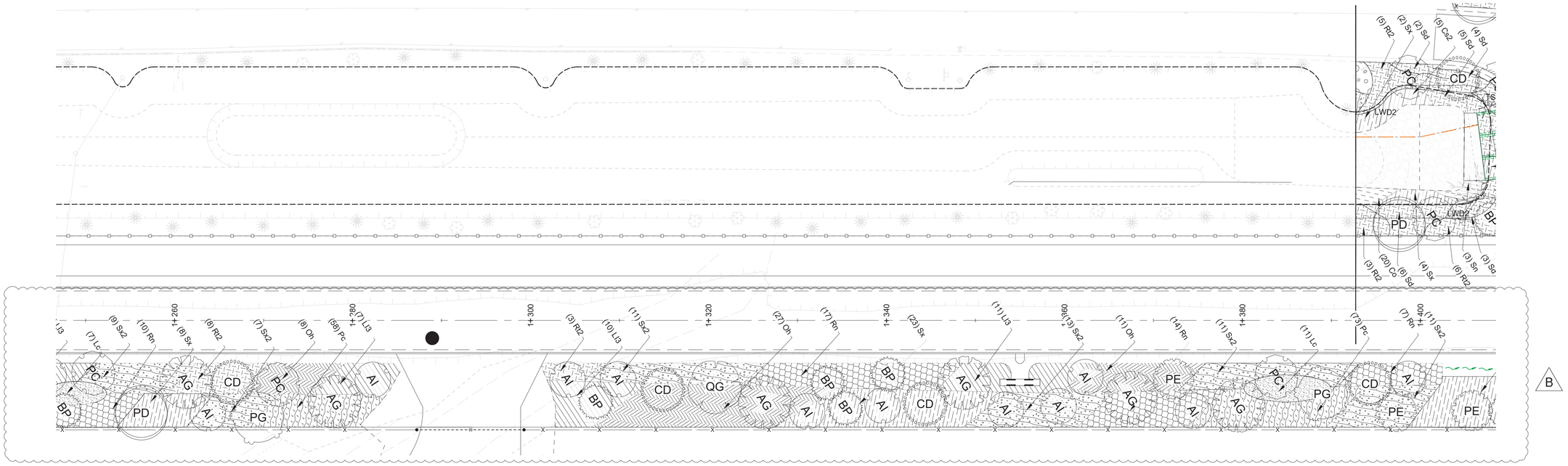
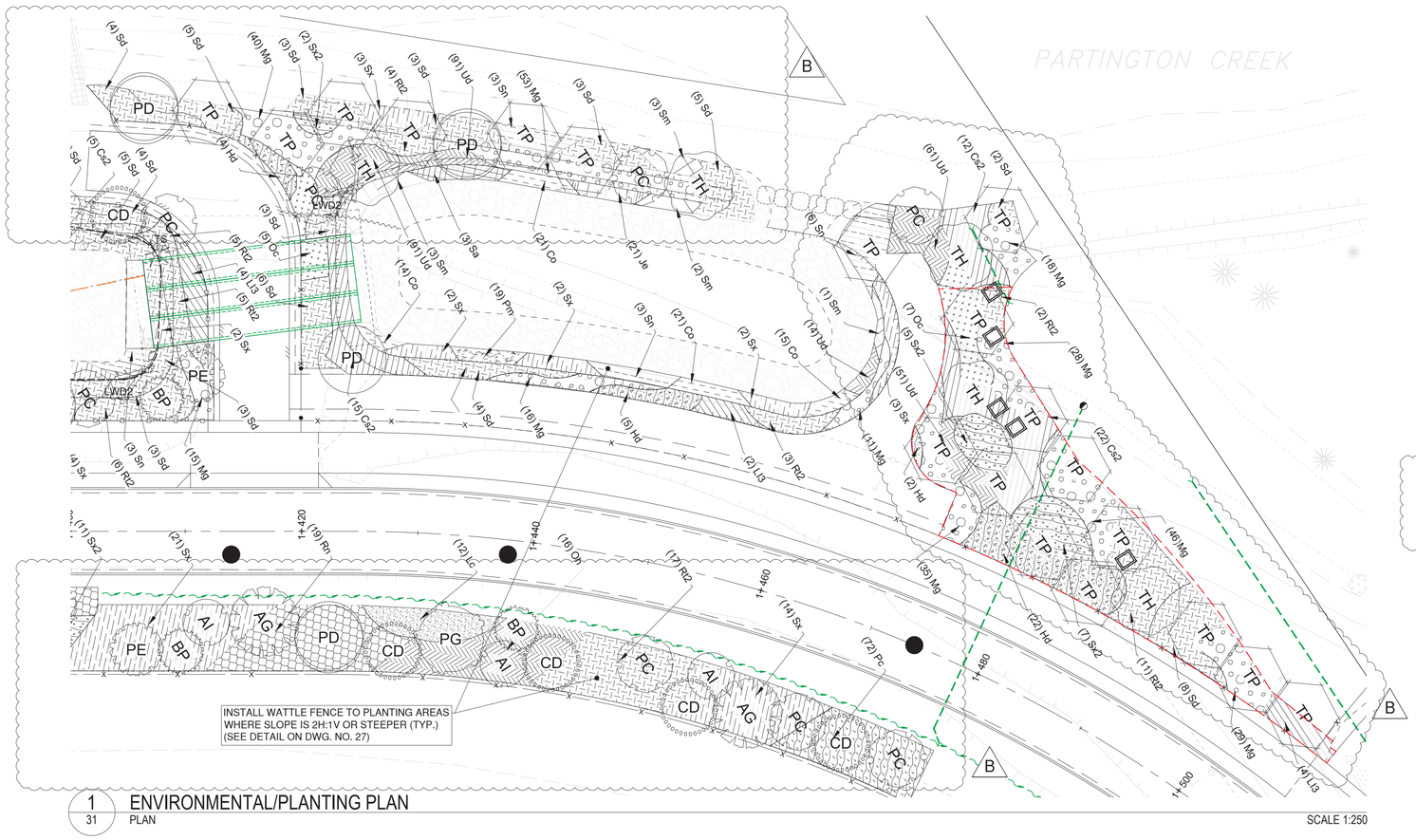
| SCALE | AS SHOWN | CREATION DATE | NOV - 2023 |
| DRAWN BY | ML | DESIGN BY | AR |
| CHECKED BY | AR | APPROVED BY | AR |

DWG. NO. 30 OF 42 REV. E




1:250 0 5 15m

LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | COARSE WOODY DEBRIS |
| | LARGE WOODY DEBRIS TYPE 1 |
| | LARGE WOODY DEBRIS TYPE 2 |
| | BAT BOX |
| | GRAVEL AND BOULDERS |
| | THALWEG |
| | COMPOSTED BARK MULCH |

1 / 31 ENVIRONMENTAL/PLANTING PLAN
PLAN

SCALE 1:250

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ISSUED FOR TENDER | 2025/04/07 | ML | AR |
| B | ADDENDUM #2 | 2025/04/24 | ML | AR |
| | | | | AR |

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# PARTINGTON CREEK ENHANCEMENT HABITAT

## ENVIRONMENTAL/PLANTING PLAN

REGISTERED MEMBER ANDREW B. ROBERTSON 372 LANDSCAPE ARCHITECT

ISL
#503, 4190 Lougheed Hwy, Burnaby, B.C. V5C 6A8
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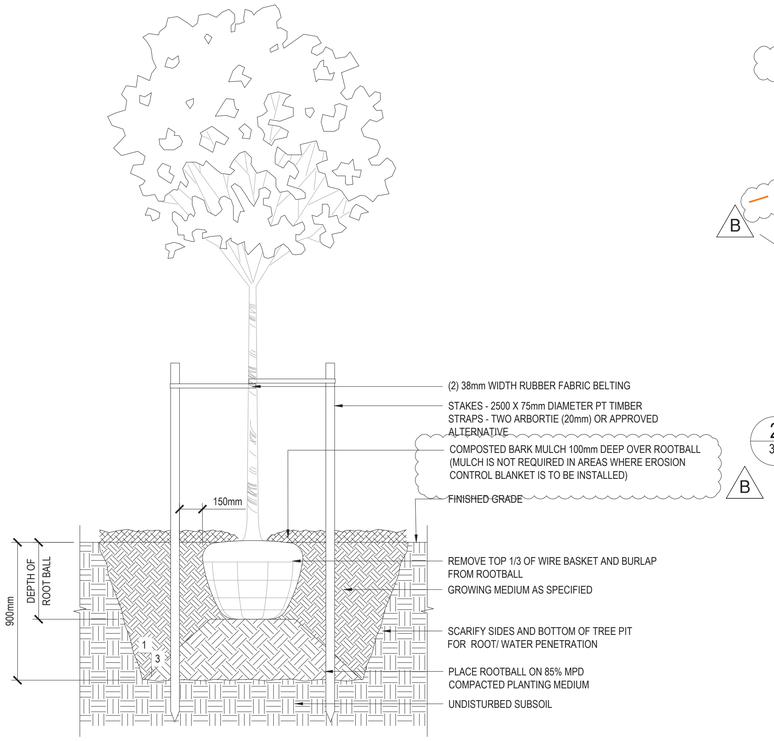
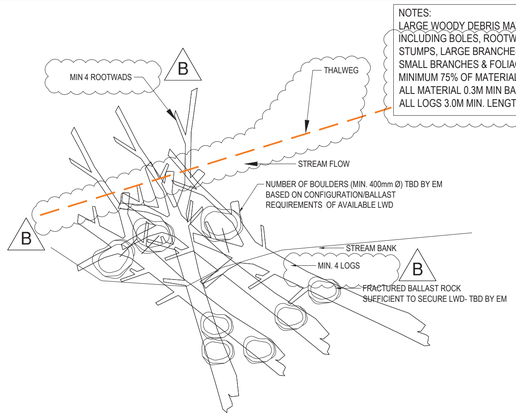
ADDENDUM #2 DESIGN NO. 33527

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

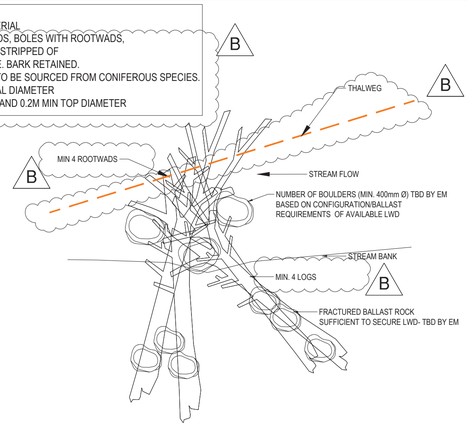
DWG. NO. 31 OF 42
REV. E



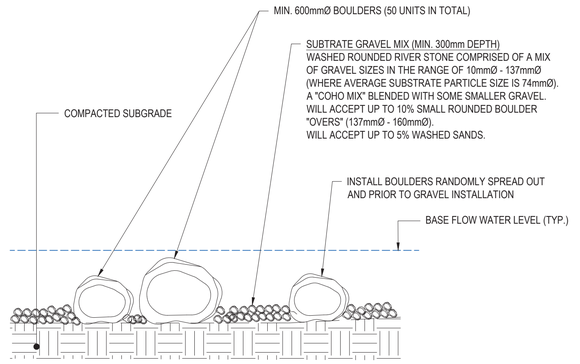

1 / 32 TREE PLANTING DETAIL
ELEVATION SCALE 1:20



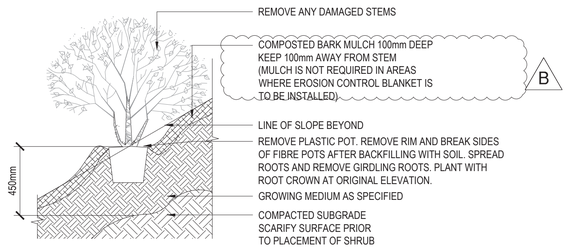

2 / 32 LARGE WOODY DEBRIS TYPE 1 (PARALLEL)
PLAN SCALE 1:40



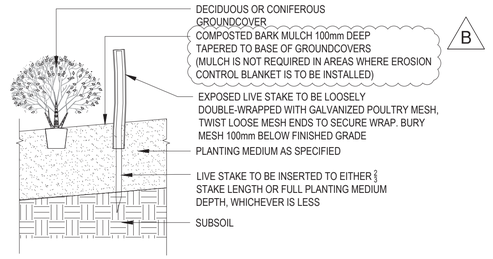

3 / 32 LARGE WOODY DEBRIS TYPE 1 (TRIANGULAR)
PLAN SCALE 1:40



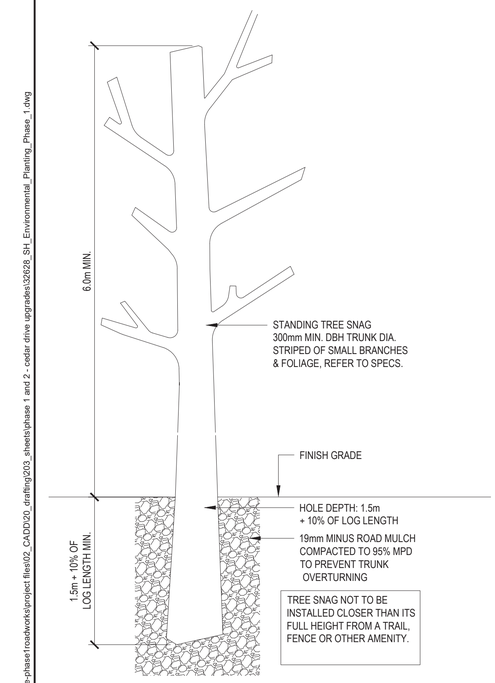

4 / 32 CHANNEL SUBSTRATE
SECTION SCALE 1:20



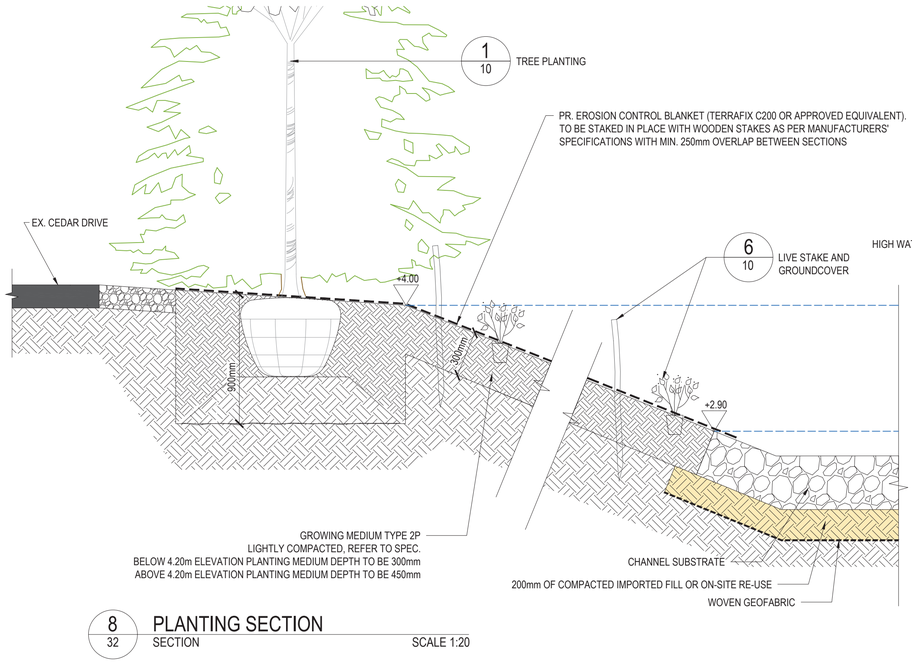

5 / 32 SHRUB PLANTING DETAIL
ELEVATION SCALE 1:20



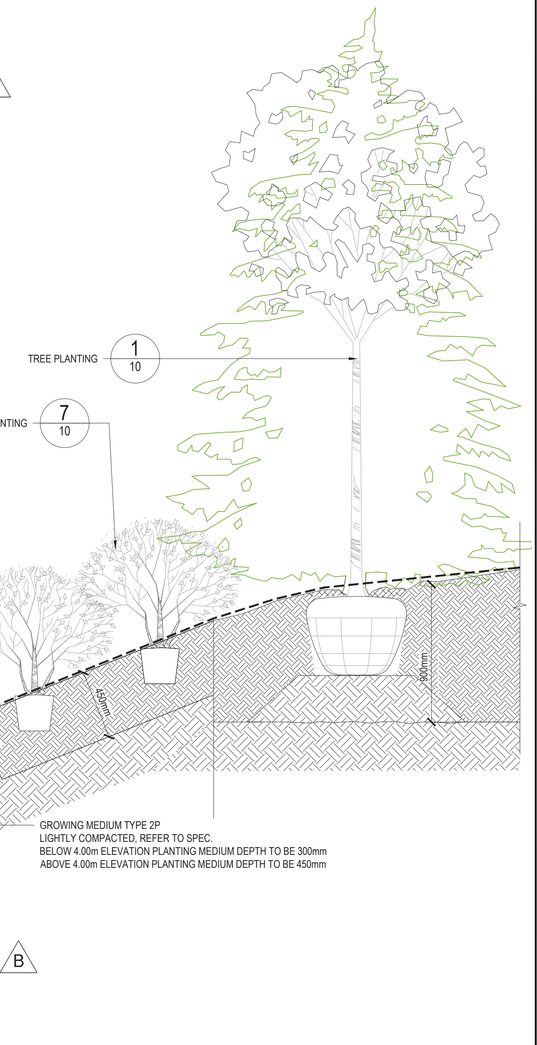

6 / 32 GROUNDCOVER AND LIVE STAKE
ELEVATION SCALE 1:20




7 / 32 TREE SNAG
ELEVATION SCALE 1:20




8 / 32 PLANTING SECTION
SECTION SCALE 1:20




PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ISSUED FOR TENDER | 2025/04/07 | ML | AR |
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| | | | | AR |
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Coquitlam

# PARTINGTON CREEK ENHANCEMENT HABITAT
## ENVIRONMENTAL/PLANTING PLAN

REGISTERED PROFESSIONAL BIOLOGIST PROVINCE OF BRITISH COLUMBIA ANDREW B. ROBERTSON REGISTERED BIOLOGIST 372

ISL
#503, 4190 Lougheed Hwy, Burnaby, B.C. V5C 6A8
T: (604)629-2696 F: (604)629-2698

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

DWG. NO. 32 OF 42 REV. E

ADDENDUM #2 DESIGN NO. 33527

EROSION & SEDIMENT CONTROL GENERAL NOTES

1.ALL WORKS SHALL BE UNDERTAKEN AND COMPLETED IN A MANNER AS TO PREVENT THE RELEASE OF SEDIMENT, SILT OR SEDIMENT LADEN WATER, OR ANY OTHER DELETERIOUS SUBSTANCE INTO ANY DRAINAGE SYSTEM OR WATERCOURSE AS PER THE CITY OF COQUITLAM " STREAM AND DRAINAGE SYSTEM PROTECTION BYLAW NO. 4403, 2013" AND BC WATER QUALITY GUIDELINES.

2. PRIOR TO COMMENCING WORKS WITHIN 30 M OF A WATERCOURSE, ALL ENVIRONMENTAL APPROVALS, PERMITS, NOTIFICATIONS AND AUTHORIZATIONS MUST BE SECURED.

3. IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO ENSURE NO PERSON SHALL DISCHARGE, DIRECTLY OR INDIRECTLY, WATER WITH A TURBIDITY GREATER THAN 25 NTU INTO THE CITY OF COQUITLAM'S DRAINAGE SYSTEM. WATER TURBIDITY LEVELS UP TO 100 NTU WILL BE ACCEPTED AFTER A RAINFALL EVENT GREATER THAN 25MM/24HR PER THE BURKE MOUNTAIN RAIN GAUGE.

4. THE WORKS SHOWN SHALL BE A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL MODIFY AND/OR PROVIDE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO ACCOMMODATE CONSTRUCTION ACTIVITIES AND ACHIEVE THE DISCHARGE REQUIREMENTS OF THE BYLAW.

5. THE BURKE MOUNTAIN RAIN GAUGE WILL BE REFERENCED FOR RAINFALL DETERMINATION AND INSPECTION FREQUENCY DETERMINATION.

6. AN EROSION AND SEDIMENT CONTROL SUPERVISOR (ESCS) WILL BE RETAINED BY THE DEVELOPER TO INSPECT SITE ACTIVITIES TO ENSURE CONFORMANCE WITH THIS PLAN AND COMPLIANCE WITH THE ESC BYLAW. THE ESCS MUST SUBMIT ESC REPORTS WILL BE SUBMITTED TO ESCReports@coquitlam.ca.

7. THE ESC INSPECTIONS WILL BE UNDERTAKEN WEEKLY WITH BI-WEEKLY REPORTING DURING THE WET SEASON. IN THE DRY SEASON THE ESC INSPECTION WILL BE CARRIED OUT BIWEEKLY WITH MONTHLY MONITORING REPORT, OR AS DETERMINED BY THE CITY.

8. SRE INSPECTIONS WILL BE COMPLETED 48 HOURS PRIOR TO FORECASTED SIGNIFICANT RAINFALL EVENT (SRE) OR DURING AND WITHIN 24 HOURS OF AN SRE.

9. THE CONTRACTOR SHALL OBTAIN SUFFICIENT QUANTITIES OF SILT FENCING, STRAW, CLEAN GRANULAR MATERIAL, POLYETHYLENE SHEETING, ETC PRIOR TO COMMENCING GROUND DISTURBANCE ACTIVITIES.

10. EXPOSED SOIL STOCK PILES ARE TO BE COVERED WITH ONE LAYER OF 6MIL POLY AND WEIGHTED OR STAPLED INTO PLACE.

11. THE CONTRACTOR SHALL INSTALL EFFECTIVE ESC FACILITIES TO PREVENT ENTRY OF SEDIMENT INTO WATERCOURSES AND DRAINAGE SYSTEM.

12. THE CONTRACTOR SHALL MAINTAIN ALL ESC MEASURES AND FACILITIES ON AN AS-NEEDED BASIS. MAINTENANCE MAY INCLUDE BUT IS NOT NECESSARILY LIMITED TO REPLACING SILT FENCING, RE-STAKING FALLEN SILT FENCING, DISPOSAL OFFSITE OF DEBRIS AND SEDIMENT, REPLACING FOULED GRAVEL EGRESS PADS AND CLEANING OUT ANY SEDIMENT CONTROL SWALES.

13. THE CONTRACTOR IS TO AVOID EARTH DISTURBING ACTIVITIES DURING SIGNIFICANT RAIN EVENTS LEADING TO GROUND SATURATION. SIGNIFICANT RAIN EVENTS AND GROUND SATURATION WILL BE DETERMINED BY THE ESCS BASED UPON ON-THE-GROUND INVESTIGATION.

14. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OR DAMAGE, DIRECTLY RESULTING FROM HIS OPERATIONS AND FOR THE REMOVAL OF DIRT OR DEBRIS FROM EXISTING SYSTEMS, WHICH MAY BE CAUSED BY OR WHICH MAY RESULT FROM WATER BACKING UP OR OVERFLOWING THROUGH, FROM, OR ALONG ANY PART OF THE WORK OR ADJACENT PROPERTIES. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH THESE REPAIRS UNTIL WORKS IS COMPLETE AND ACCEPTED BY THE OWNER(S).

15. MINIMIZE EXPOSURE OF MINERAL SOILS DURING THIS PHASE OF WORKS BY APPLICATION OF STRAW. APPLY STRAW TO 3cm OR WHEN UNDERLYING SOILS ARE NOT VISIBLE. RE-APPLY STRAW, AS IT DEGRADES. THE USE OF HAY SHALL BE AVOIDED AS IT MAY CONTAIN SEEDS OF INVASIVE PLANTS.

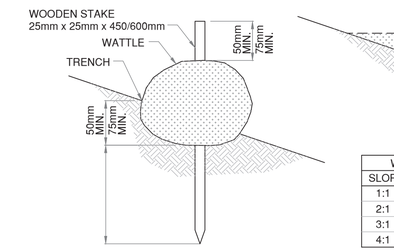
16. PRIOR TO WORKS A PRE-CONSTRUCTION SITE MEETING WILL BE ARRANGED AMONGST THE MANAGING ENGINEER, CONTRACTOR'S SITE SUPERVISOR AND ESCS.

17. TRUCK EGRESS PADS SHALL BE CONSTRUCTED AS PER DETAIL AT THE ENTRANCE/EXIT OF THE SITE.

18. WHEN THE EGRESS PAD BECOMES FOULED, IT WILL BE SCARIFIED TO REMOVE OCCLUDING SEDIMENTS, AND ADDITIONAL CLEAN MATERIAL WILL BE ADDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

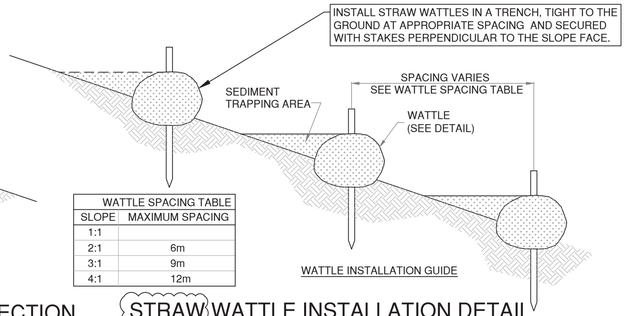
19. ANY SEDIMENT TRANSPORTED ONTO CITY STREETS IS TO BE IMMEDIATELY SWEPT.

20. IF THE ROCK ACCESS PAD AND ROAD SWEEPING IS INEFFECTIVE AT CONTROLLING TRACKING OF SEDIMENT FROM THE SITE, A WHEEL WASH WILL HAVE TO BE INSTALLED AT THE CONTRACTOR'S EXPENSE.




TYPICAL STRAW WATTLE SECTION

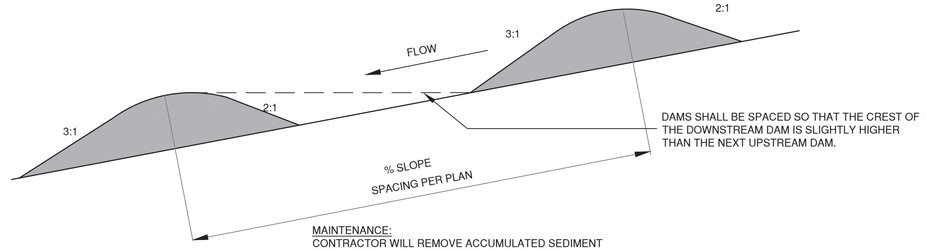
SCALE: NTS




| WATTLE SPACING TABLE | |
|---|---|
| SLOPE | MAXIMUM SPACING |
| 1:1 | |
| 2:1 | 6m |
| 3:1 | 9m |
| 4:1 | 12m |

STRAW WATTLE INSTALLATION DETAIL

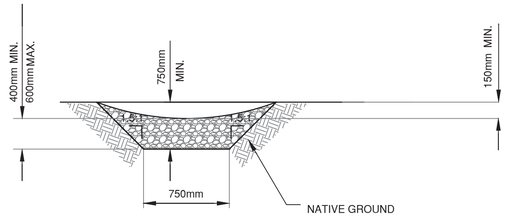
SCALE: NTS

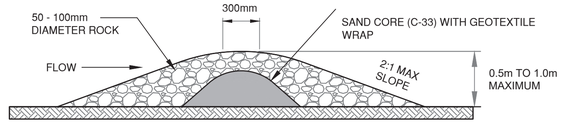



MAINTENANCE:
CONTRACTOR WILL REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 OF CHECK DAM HEIGHT.

SEDIMENT CONTROL CHECK DAM - ELEVATION

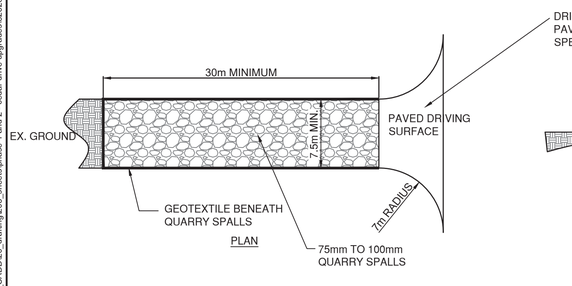
SCALE: NTS



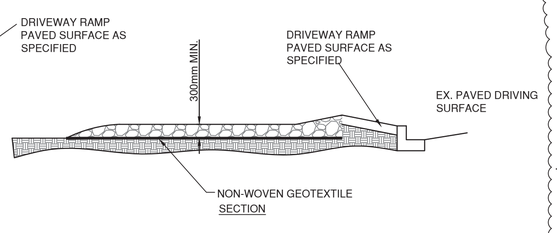




SEDIMENT CONTROL CHECK DAM - SECTION

SCALE: NTS




PLAN



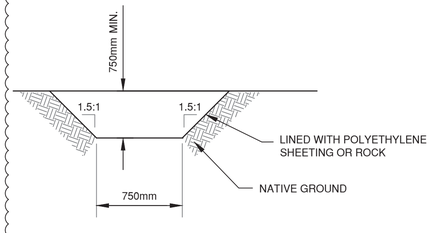

SECTION

TRUCK PAD DETAIL NOTES:

1. PAD SHALL BE SCARIFIED (LOFTED), ON AS NEEDED BASIS, TO RELEASE FOILING SEDIMENT AND REPLACED WHEN SOIL IS EVIDENT ON THE SURFACE OF THE PAD OR AS DIRECTED BY THE ENGINEER/ESC SUPERVISOR.
2. ADDITIONAL CLEAN MATERIAL MUST BE ADDED IF SOIL CONDITIONS DICTATE OR PER THE DIRECTION OF THE ENGINEER/ESC SUPERVISOR.
3. MINIMUM DIMENSIONS MAY BE MODIFIED AS REQUIRED BY SITE CONDITIONS UPON APPROVAL OF THE ENGINEER/ESC SUPERVISOR.

TEMPORARY TRUCK ACCESS PAD DETAIL

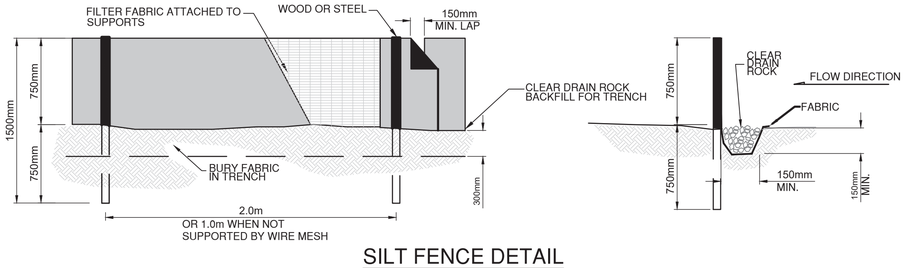
SCALE: NTS




TYP. CONSTRUCTION

SEDIMENT SWALE SECTION

SCALE: NTS




SILT FENCE DETAIL

SCALE: NTS

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ISSUED FOR TENDER | 2025/04/07 | GA | CJB |
| B | ADDENDUM #2 | 2024/04/24 | GA | CJB |
| | | | | |
| | | | | |
| | | | | |

Coquitlam

# ESC NOTES AND DETAILS

CEDER DR UPGRADES - PHASE 1

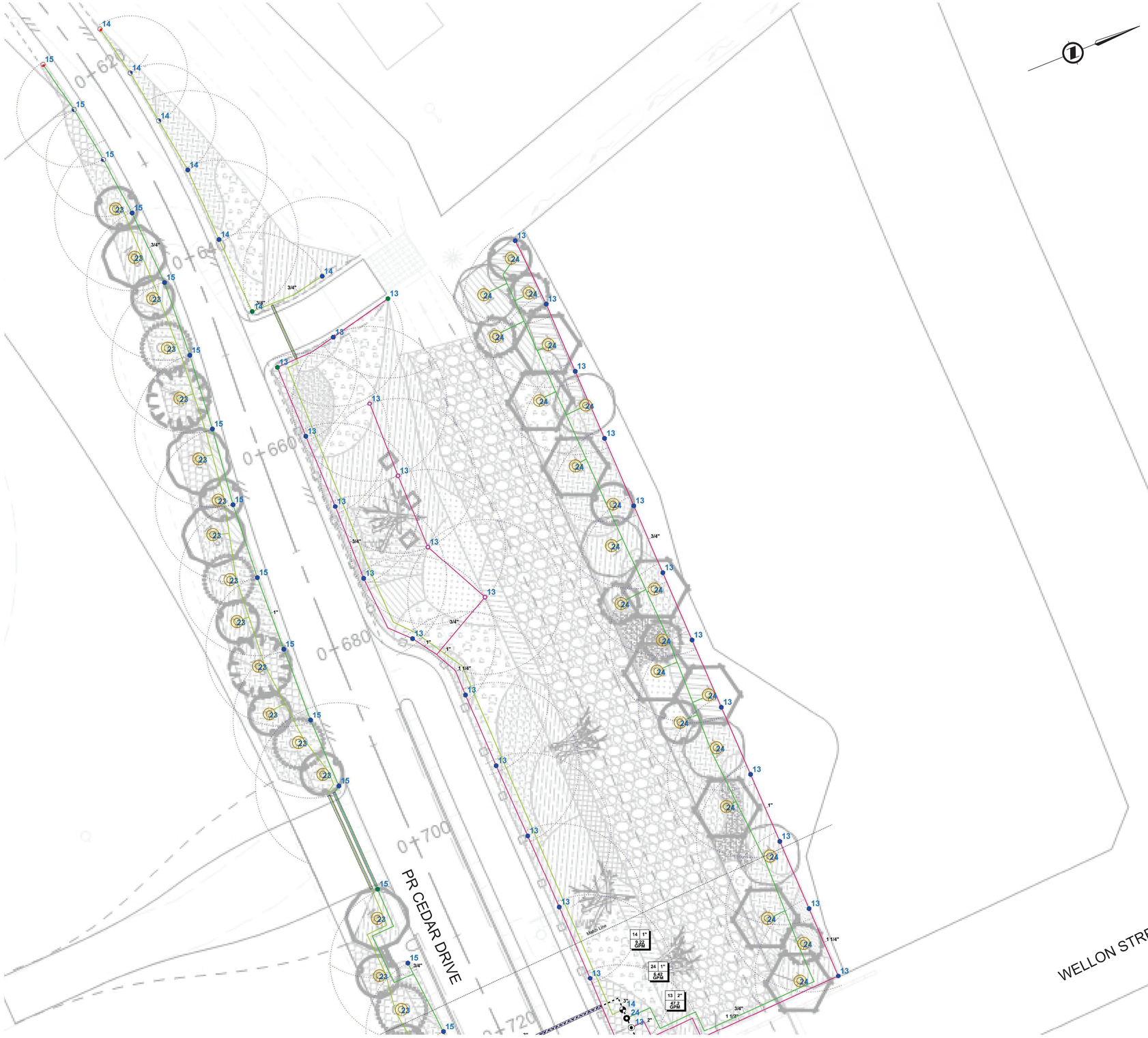
ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2699 F: (604)629-2698

ADDENDUM #2 DESIGN NO. 33527

| | | | |
|---|---|---|---|
| SCALE | AS SHOWN | CREATION DATE | MAR - 2025 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |

DWG. NO. 33 OF 42

REV. E




**Irrigation**

| Symbol | Description | Pressure | Flow | Radius |
|---|---|---|---|---|
| **Sprinklers** | | | | |
| | Rain Bird 15FST - 1806-SAM-PRS | 30 psi | 0.61 gpm | 15 x 4 ft |
| | Rain Bird 15SST - 1806-SAM-PRS | 30 psi | 1.21 gpm | 30 x 4 ft |
| | Rain Bird 3500 Series 0.75 - 3504-PC-SAM | 45 psi | 0.77 gpm | 17 ft |
| | Rain Bird 3500 Series 1.5 - 3504-PC-SAM | 45 psi | 1.48 gpm | 24 ft |
| | Rain Bird 5000 Series 1.0 LA - 5004-PL-PC-SAM | 35 psi | 0.87 gpm | 28 ft |
| | Rain Bird 5000 Series 1.5 - 5000-S-PL-PC-SAM | 35 psi | 1.35 gpm | 34 ft |
| | Rain Bird 5000 Series 1.5 - 5004-PL-PC-SAM | 45 psi | 1.54 gpm | 35 ft |
| | Rain Bird 5000 Series 2.0 - 5000-S-PL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.0 - 5004-PL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.5 - 5000-S-PL-PC-SAM | 45 psi | 2.61 gpm | 37 ft |
| | Rain Bird 5000 Series 3.0 - 6000 S PL PC SAM | 45 psi | 3.00 gpm | 40 ft |
| | Rain Bird 5000-MPR 25-F - 5000-S-PL-PC-SAM | 45 psi | 3.82 gpm | 25 ft |
| | Rain Bird 5000-MPR 30-F - 5000-S-PL-PC-SAM | 45 psi | 5.78 gpm | 30 ft |
| | Rain Bird HE-VAN-08 180 - 1806-SAM-PRS | 30 psi | 0.59 gpm | 8 ft |
| | Rain Bird HE-VAN-10 180 - 1806-SAM-PRS | 30 psi | 0.89 gpm | 10 ft |
| | Rain Bird HE-VAN-12 180 - 1806-SAM-PRS | 30 psi | 1.18 gpm | 12 ft |
| | Rain Bird HE-VAN-15 180 - 1806-SAM-PRS | 30 psi | 1.85 gpm | 15 ft |
| **Control Valves** | | | | |
| | Rain Bird 100-PEB | | | |
| | Rain Bird 150-PEB | | | |
| | Rain Bird 200-PEB | | | |
| | Rain Bird XCZ-100-PRB-COM | | | |
| **Irrigation Accessories** | | | | |
| | Toro Etc-TWCIE-EXP board | | | |
| **Lateral Line Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Mainline Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Sleeving** | | | | |
| | Schedule 40 3" | | | |
| | Schedule 40 4" | | | |
| **Drip Tubing** | | | | |
| | Rain Bird XFD-09-12 | | | |

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ADDENDUM #2 | 2023/07/06 | KE | CJB |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Coquitlam

# IRRIGATION

## CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — G. DE SOUZA ATAIDE # 50849 — SCIENCE ENGINEERING — 2025-04-24

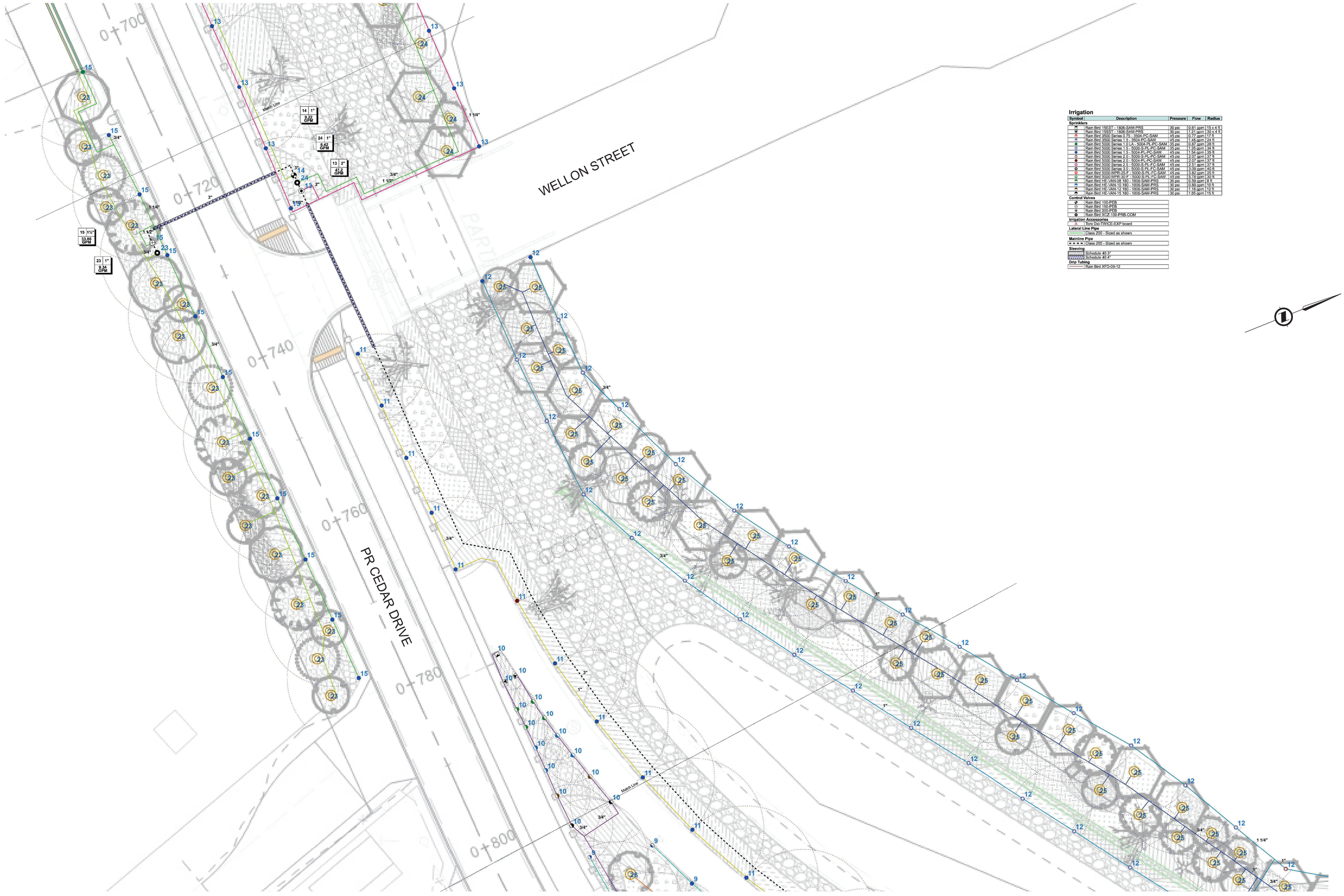
KORS ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

| | | | |
|---|---|---|---|
| SCALE | 1:200 | CREATION DATE | 2023/07/06 |
| DRAWN BY | KE | DESIGN BY | KE |
| CHECKED BY | CJB | APPROVED BY | CJB |

ADDENDUM #2 DESIGN NO. 33527

DWG. NO. 35 OF 42 REV. A

File: c:\ADSKACCDocs\ISL\33628_coq_cedardrive-phase1roadworks\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\32628_SH_Phase_2_Irrigation.dwg




**Irrigation**

| Symbol | Description | Pressure | Flow | Radius |
|---|---|---|---|---|
| **Sprinklers** | | | | |
| | Rain Bird 15EST - 180E-SAM-PRS | 30 psi | 0.61 gpm | 15 x 4 ft |
| | Rain Bird 15EBT - 180E-SAM-PRS | 30 psi | 1.21 gpm | 30 x 4 ft |
| | Rain Bird 3500 Series 0.75 - 3504-PC-SAM | 45 psi | 0.77 gpm | 17 ft |
| | Rain Bird 3500 Series 1.0 - 3505-PC-SAM | 45 psi | 1.48 gpm | 24 ft |
| | Rain Bird 5000 Series 1.0 LA - 5004-PLUS-PC-SAM | 35 psi | 0.97 gpm | 28 ft |
| | Rain Bird 5000 Series 1.5 - 5005-PLUS-PC-SAM | 35 psi | 1.35 gpm | 34 ft |
| | Rain Bird 5000 Series 1.5 - 5005-PLUS-PC-SAM | 45 psi | 1.56 gpm | 35 ft |
| | Rain Bird 5000 Series 2.0 - 5005-PLUS-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.0 - 5005-PLUS-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.5 - 5005-PLUS-PC-SAM | 45 psi | 2.51 gpm | 37 ft |
| | Rain Bird 5000 Series 3.0 - 5005-PLUS-PC-SAM | 45 psi | 3.09 gpm | 42 ft |
| | Rain Bird 5000-MPR-CV-F - 5000-PLUS-PC-SAM | 45 psi | 3.82 gpm | 35 ft |
| | Rain Bird 5000-MPR-CV-F - 5000-PLUS-PC-SAM | 45 psi | 5.16 gpm | 42 ft |
| | Rain Bird HE-VAN-08 180 - 180E-SAM-PRS | 30 psi | 0.69 gpm | 9 ft |
| | Rain Bird HE-VAN-10 180 - 180E-SAM-PRS | 30 psi | 0.89 gpm | 10 ft |
| | Rain Bird HE-VAN-12 180 - 180E-SAM-PRS | 30 psi | 1.16 gpm | 12 ft |
| | Rain Bird HE-VAN-15 180 - 180E-SAM-PRS | 30 psi | 1.85 gpm | 15 ft |
| **Control Valves** | | | | |
| | Rain Bird 100-PEB | | | |
| | Rain Bird 150-PEB | | | |
| | Rain Bird 200-PEB | | | |
| | Rain Bird XCZ-100-PRB-COM | | | |
| **Irrigation Accessories** | | | | |
| | Toro Dot-TWICE-EXP board | | | |
| **Lateral Line Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Mainline Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Sleeving** | | | | |
| | Schedule 40 3" | | | |
| | Schedule 40 4" | | | |
| **Drip Tubing** | | | | |
| | Rain Bird XFD-09-12 | | | |

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ADDENDUM #2 | 2023/07/06 | KE | CJB |

Coquitlam

# IRRIGATION

## CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER — G. DE SOUZA ATADE # 50849 — BRITISH COLUMBIA — ENGINEER — 2025-04-24

KORS ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

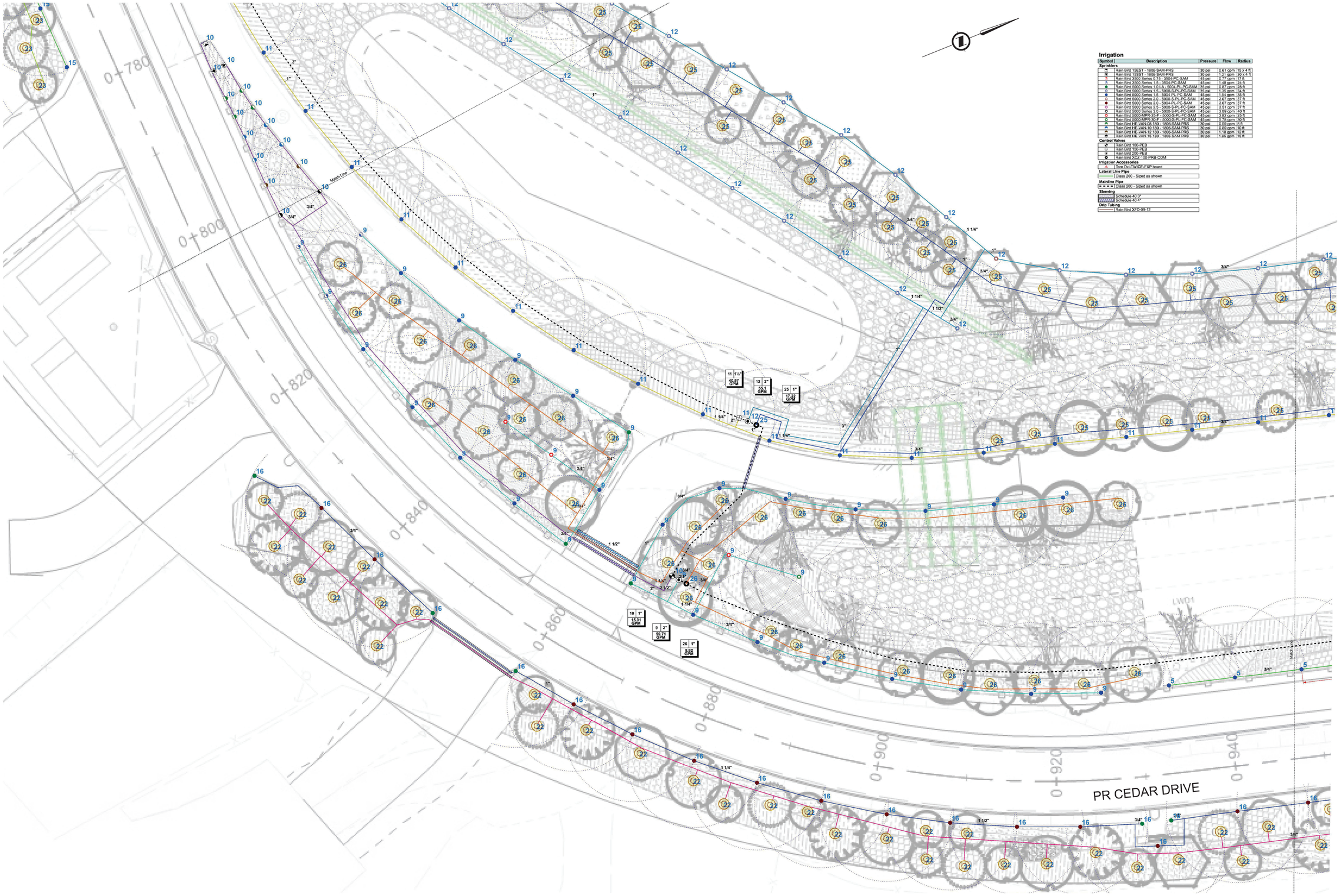
ADDENDUM #2 DESIGN NO. 33527

| | | | |
|---|---|---|---|
| SCALE | 1:200 | CREATION DATE | APR - 2025 |
| DRAWN BY | KE | DESIGN BY | KE |
| CHECKED BY | CJB | APPROVED BY | CJB |

DWG. NO. 36 OF 42

REV. A

File: c:\ADSKACCDocs\ISL\32628_coq_cedardrive-phase1roadwork\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\32628_SH_Phase_2_Irrigation.dwg




## Irrigation

| Symbol | Description | Pressure | Flow | Radius |
|---|---|---|---|---|
| **Sprinklers** | | | | |
| | Rain Bird 1SEST - 1806-SAM-PRS | 30 psi | 0.61 gpm | 15 x 4 ft |
| | Rain Bird 1SSST - 1806-SAM-PRS | 30 psi | 1.21 gpm | 30 x 4 ft |
| | Rain Bird 3500 Series 0.75 - 3504-PC-SAM | 45 psi | 0.77 gpm | 17 ft |
| | Rain Bird 3500 Series 1.5 - 3504-PC-SAM | 45 psi | 1.48 gpm | 24 ft |
| | Rain Bird 5000 Series 1.0 LA - 5004-PL-PC-SAM | 35 psi | 0.87 gpm | 28 ft |
| | Rain Bird 5000 Series 1.5 - 5000-S-PL-PC-SAM | 35 psi | 1.35 gpm | 34 ft |
| | Rain Bird 5000 Series 1.5 - 5004-PL-PC-SAM | 45 psi | 1.54 gpm | 35 ft |
| | Rain Bird 5000 Series 2.0 - 5000-S-PL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.0 - 5004-PL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.5 - 5000-S-PL-FC-SAM | 45 psi | 2.51 gpm | 37 ft |
| | Rain Bird 5000 Series 3.0 - 5000-S-PL-FC-SAM | 45 psi | 3.09 gpm | 40 ft |
| | Rain Bird 5000-MPR-25-F - 5000-S-PL-FC-SAM | 45 psi | 3.82 gpm | 25 ft |
| | Rain Bird 5000-MPR-30-F - 5000-S-PL-FC-SAM | 45 psi | 5.78 gpm | 30 ft |
| | Rain Bird HE-VAN-08 TBO - 1806-SAM-PRS | 30 psi | 0.59 gpm | 8 ft |
| | Rain Bird HE-VAN-10 TBO - 1806-SAM-PRS | 30 psi | 0.89 gpm | 10 ft |
| | Rain Bird HE-VAN-12 TBO - 1806-SAM-PRS | 30 psi | 1.18 gpm | 12 ft |
| | Rain Bird HE-VAN-15 TBO - 1806-SAM-PRS | 30 psi | 1.85 gpm | 15 ft |
| **Control Valves** | | | | |
| | Rain Bird 100-PEB | | | |
| | Rain Bird 150-PEB | | | |
| | Rain Bird 200-PEB | | | |
| | Rain Bird XCZ-100-PRB-COM | | | |
| **Irrigation Accessories** | | | | |
| | Toro Dxi-TWICE-EXP board | | | |
| **Lateral Line Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Mainline Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Sleeving** | | | | |
| | Schedule 40 3" | | | |
| | Schedule 40 4" | | | |
| **Drip Tubing** | | | | |
| | Rain Bird XFD-09-12 | | | |

PLOT DATE: April 24, 2025

ADDENDUM #2 DESIGN NO. 33527

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ADDENDUM #2 | 2023/07/06 | KE | CJB |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Coquitlam

# IRRIGATION

## CEDAR DRIVE UPGRADES - PHASE 2

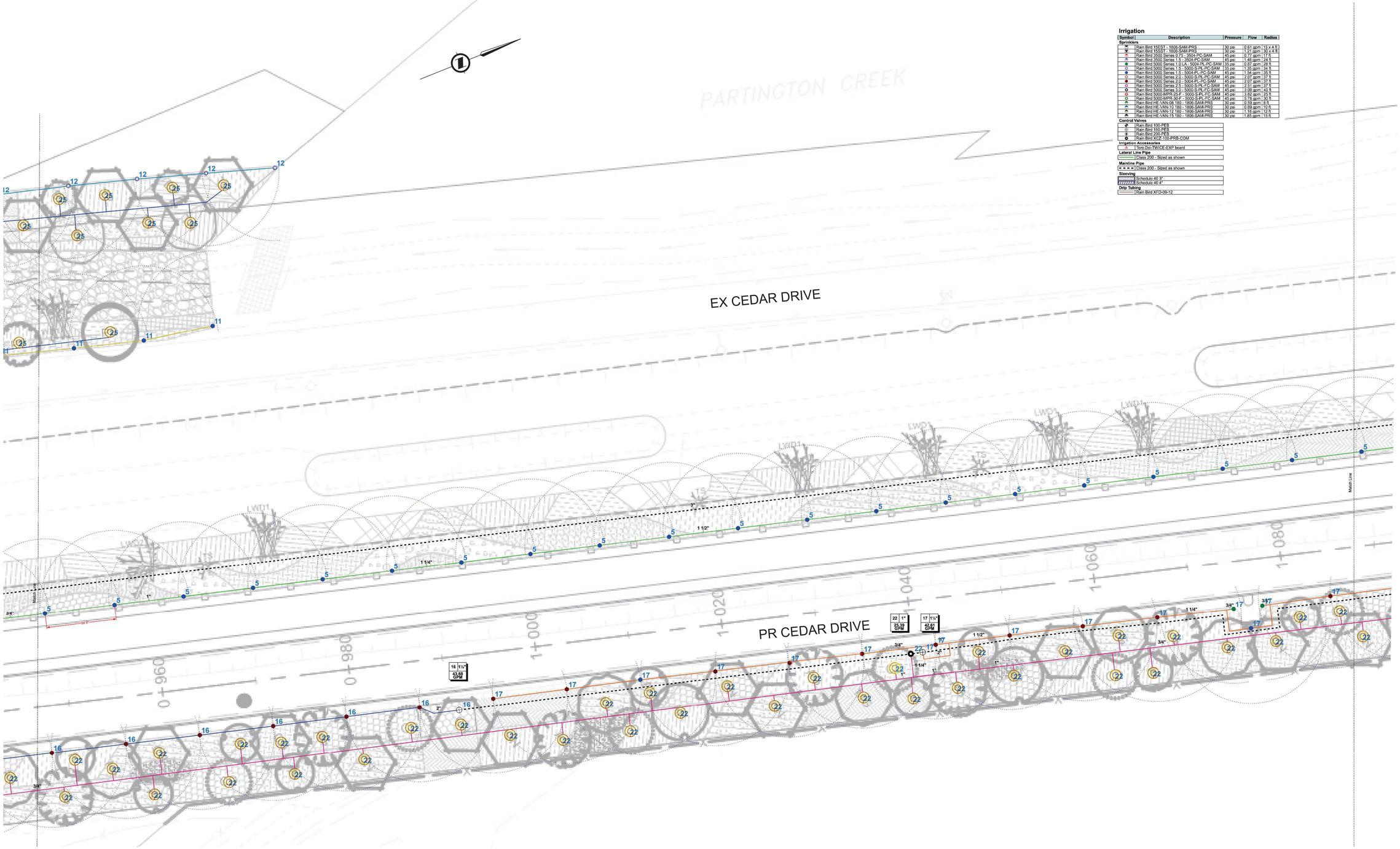
PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — G. DE SOUZA ATAIDE # 60849 — ENGINEERING — 2025-04-24

KORS ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

| | | | |
|---|---|---|---|
| SCALE | 1:200 | CREATION DATE | 2023/07/06 |
| DRAWN BY | KE | DESIGN BY | KE |
| CHECKED BY | CJB | APPROVED BY | CJB |
| | | | |

DWG. NO. 37 OF 42 REV. A

File: c:\ADSKACCDocs\ISL\32628_coq_cedardrive-phase1roadworks\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\32628_SH_Phase_2_Irrigation.dwg




**Irrigation**

| Symbol | Description | Pressure | Flow | Radius |
|---|---|---|---|---|
| **Sprinklers** | | | | |
| | Rain Bird 15EST - 1806-SAM-PRS | 30 psi | 0.61 gpm | 15 x 4 ft |
| | Rain Bird 15SST - 1806-SAM-PRS | 30 psi | 1.21 gpm | 30 x 4 ft |
| | Rain Bird 3500 Series 0.75 - 3504-PC-SAM | 45 psi | 0.77 gpm | 17 ft |
| | Rain Bird 3500 Series 1.5 - 3504-PC-SAM | 45 psi | 1.48 gpm | 24 ft |
| | Rain Bird 5000 Series 1.0 LA - 5004-PL-PC-SAM | 35 psi | 0.87 gpm | 28 ft |
| | Rain Bird 5000 Series 1.5 - 5000-S-PL-PC-SAM | 35 psi | 1.35 gpm | 34 ft |
| | Rain Bird 5000 Series 1.5 - 5004-PL-PC-SAM | 45 psi | 1.54 gpm | 35 ft |
| | Rain Bird 5000 Series 2.0 - 5000-S-PL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.0 - 5004-PL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.5 - 5000-S-PL-FC-SAM | 45 psi | 2.51 gpm | 37 ft |
| | Rain Bird 5000 Series 3.0 - 5000-S-PL-FC-SAM | 45 psi | 3.09 gpm | 40 ft |
| | Rain Bird 5000-MPR-25-F - 5000-S-PL-FC-SAM | 45 psi | 3.82 gpm | 25 ft |
| | Rain Bird 5000-MPR-30-F - 5000-S-PL-FC-SAM | 45 psi | 5.78 gpm | 30 ft |
| | Rain Bird HE-VAN-08 180 - 1806-SAM-PRS | 30 psi | 0.99 gpm | 8 ft |
| | Rain Bird HE-VAN-10 180 - 1806-SAM-PRS | 30 psi | 0.89 gpm | 10 ft |
| | Rain Bird HE-VAN-12 180 - 1806-SAM-PRS | 30 psi | 1.19 gpm | 12 ft |
| | Rain Bird HE-VAN-15 180 - 1806-SAM-PRS | 30 psi | 1.85 gpm | 15 ft |
| **Control Valves** | | | | |
| | Rain Bird 100-PEB | | | |
| | Rain Bird 150-PEB | | | |
| | Rain Bird 200-PEB | | | |
| | Rain Bird XCZ-100-PRB-COM | | | |
| **Irrigation Accessories** | | | | |
| | 1pcs Dic-TWICE-EXP board | | | |
| **Lateral Line Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Mainline Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Sleeving** | | | | |
| | Schedule 40 3" | | | |
| | Schedule 40 4" | | | |
| **Drip Tubing** | | | | |
| | Rain Bird XFD-09-12 | | | |

PLOT DATE: April 24, 2025

ADDENDUM #2 DESIGN NO. 33527

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ADDENDUM #2 | 2023/07/06 | KE | CJB |

Coquitlam

# IRRIGATION

## CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER G. DE SOUZA ATAIDE # 50849 PROVINCE OF BRITISH COLUMBIA 2025-04-24

#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

| | | | |
|---|---|---|---|
| SCALE | 1:200 | CREATION DATE | 2023/07/06 |
| DRAWN BY | KE | DESIGN BY | KE |
| CHECKED BY | CJB | APPROVED BY | CJB |

DWG. NO. 38 OF 42 REV. A

EX CEDAR DRIVE

PR CEDAR DRIVE

Match Line

Match Line

Install new decoder wire along existing main

increase main pipe to 3" after existing control valve

5 | 1½" | 48.32 GPM

Control valve & first 3 heads installed in Ph 1

1+100 1+120 1+140 1+160 1+180 1+200 1+220

## Irrigation

| Symbol | Description | Pressure | Flow | Radius |
|---|---|---|---|---|
| **Sprinklers** | | | | |
| | Rain Bird 1806-SAM-PRS | 30 psi | 0.61 gpm | 15 x 4 ft |
| | Rain Bird 1806-SAM-PRS | 30 psi | 1.21 gpm | 30 x 4 ft |
| | Rain Bird 3500 Series 0.75 - 3504-PC-SAM | 45 psi | 0.77 gpm | 17 ft |
| | Rain Bird 5000 Series 1.0 - 5004-PC-SAM | 45 psi | 1.46 gpm | 24 ft |
| | Rain Bird 5000 Series 1.0 LA - 5004-PL-PC-SAM | 35 psi | 0.82 gpm | 28 ft |
| | Rain Bird 5000 Series 1.5 - 5000-S-PL-PC-SAM | 35 psi | 1.30 gpm | 34 ft |
| | Rain Bird 5000 Series 1.5 - 5004-PL-PC-SAM | 45 psi | 1.54 gpm | 35 ft |
| | Rain Bird 5000 Series 2.0 - 5000-S-PL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.0 - 5004-PL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.5 - 5000-S-PL-PC-SAM | 45 psi | 2.51 gpm | 37 ft |
| | Rain Bird 5000 Series 3.0 - 5000-S-PL-PC-SAM | 45 psi | 3.09 gpm | 40 ft |
| | Rain Bird 5000-MPR-29-7 - 5000-S-PL-PC-SAM | 45 psi | 3.82 gpm | 29 ft |
| | Rain Bird 5000-MPR-30-7 - 5000-S-PL-PC-SAM | 45 psi | 5.78 gpm | 30 ft |
| | Rain Bird HE-VAN-08 180 - 1806-SAM-PRS | 30 psi | 0.59 gpm | 8 ft |
| | Rain Bird HE-VAN-10 180 - 1806-SAM-PRS | 30 psi | 0.89 gpm | 10 ft |
| | Rain Bird HE-VAN-12 180 - 1806-SAM-PRS | 30 psi | 1.19 gpm | 12 ft |
| | Rain Bird HE-VAN-15 180 - 1806-SAM-PRS | 30 psi | 1.85 gpm | 15 ft |
| **Control Valves** | | | | |
| | Rain Bird 100-PEB | | | |
| | Rain Bird 150-PEB | | | |
| | Rain Bird 200-PEB | | | |
| | Rain Bird XCZ-100-PRB-COM | | | |
| **Irrigation Accessories** | | | | |
| | Toro Dot TWCK EXP board | | | |
| **Lateral Line Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Mainline Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Sleeving** | | | | |
| | Schedule 40 2" | | | |
| | Schedule 40 4" | | | |
| **Drip Tubing** | | | | |
| | Rain Bird XFD-09-12 | | | |

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ADDENDUM #2 | 2023/07/06 | KE | CJB |

Coquitlam

# IRRIGATION

## CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER G. DE SOUZA ATAIDE # 50849 CANADA 2025-04-24

#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

ADDENDUM #2 DESIGN NO. 33527

| | | | |
|---|---|---|---|
| SCALE | 1:200 | CREATION DATE | 2023/07/06 |
| DRAWN BY | KE | DESIGN BY | KE |
| CHECKED BY | CJB | APPROVED BY | CJB |

DWG. NO. 39 OF 42

REV. A

File: c:\ADS\KA\CCDocs\ISL\132628_coq_cedardrive-phase1roadworks\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\132628_SH_Phase_2_Irrigation.dwg

EX CEDAR DRIVE

PR CEDAR DRIVE

Install new decoder wire along exising main

Match Line

1+240 1+260 1+280 1+300 1+320 1+340 1+360

21 | 1" | 25.1 GPM

18 | 1½" | 44.49 GPM

**Irrigation**

| Symbol | Description | Pressure | Flow | Radius |
|---|---|---|---|---|
| **Sprinklers** | | | | |
| | Rain Bird 15ESST - 1806-SAM-PRS | 30 psi | 0.61 gpm | 15 x 4 ft |
| | Rain Bird 10SST - 1806-SAM-PRS | 30 psi | 1.21 gpm | 30 x 4 ft |
| | Rain Bird 3500 Series 0.75 - 3504-PC-SAM | 45 psi | 0.77 gpm | 17 ft |
| | Rain Bird 3500 Series 1.0 - 3504-PC-SAM | 45 psi | 1.48 gpm | 24 ft |
| | Rain Bird 5000 Series 1.0 LA - 5004 PL-PC-SAM | 95 psi | 0.97 gpm | 28 ft |
| | Rain Bird 5000 Series 1.5 - 5000-S-PL-PC-SAM | 95 psi | 1.35 gpm | 34 ft |
| | Rain Bird 5000 Series 1.5 - 5004-S-PL-PC-SAM | 45 psi | 1.54 gpm | 35 ft |
| | Rain Bird 5000 Series 2.0 - 5000-S-PL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.0 - 5004-S-PL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.5 - 5000-S-PL-PC-SAM | 45 psi | 2.53 gpm | 37 ft |
| | Rain Bird 5000 Series 3.0 - 5000-S-PL-PC-SAM | 45 psi | 3.09 gpm | 40 ft |
| | Rain Bird 5000-MPR-25-F - 5000-S-PL-PC-SAM | 45 psi | 3.82 gpm | 25 ft |
| | Rain Bird 5000-MPR-30-F - 5000-S-PL-PC-SAM | 45 psi | 5.78 gpm | 30 ft |
| | Rain Bird HE-VAN-08 180 - 1806-SAM-PRS | 30 psi | 0.59 gpm | 8 ft |
| | Rain Bird HE-VAN-10 180 - 1806-SAM-PRS | 30 psi | 0.89 gpm | 10 ft |
| | Rain Bird HE VAN 12 180 - 1806 SAM PRS | 30 psi | 1.18 gpm | 12 ft |
| | Rain Bird HE-VAN-15 180 - 1806-SAM-PRS | 30 psi | 1.85 gpm | 15 ft |
| **Control Valves** | | | | |
| | Rain Bird 100-PEB | | | |
| | Rain Bird 150-PEB | | | |
| | Rain Bird 200-PEB | | | |
| | Rain Bird XCZ-100-PRB-COM | | | |
| **Irrigation Accessories** | | | | |
| | Toro Dial-TWICE-EXP board | | | |
| **Lateral Line Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Mainline Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Sleeving** | | | | |
| | Schedule 40 3" | | | |
| | Schedule 40 4" | | | |
| **Drip Tubing** | | | | |
| | Rain Bird XFD-09-12 | | | |

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ADDENDUM #2 | 2023/07/06 | KE | CJB |

Coquitlam

# IRRIGATION

## CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G. DE SOUZA ATAIDE # 50849 CHRISTOPHER JOHN ATAIDE ENGINEER 2025-04-24

KORS ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

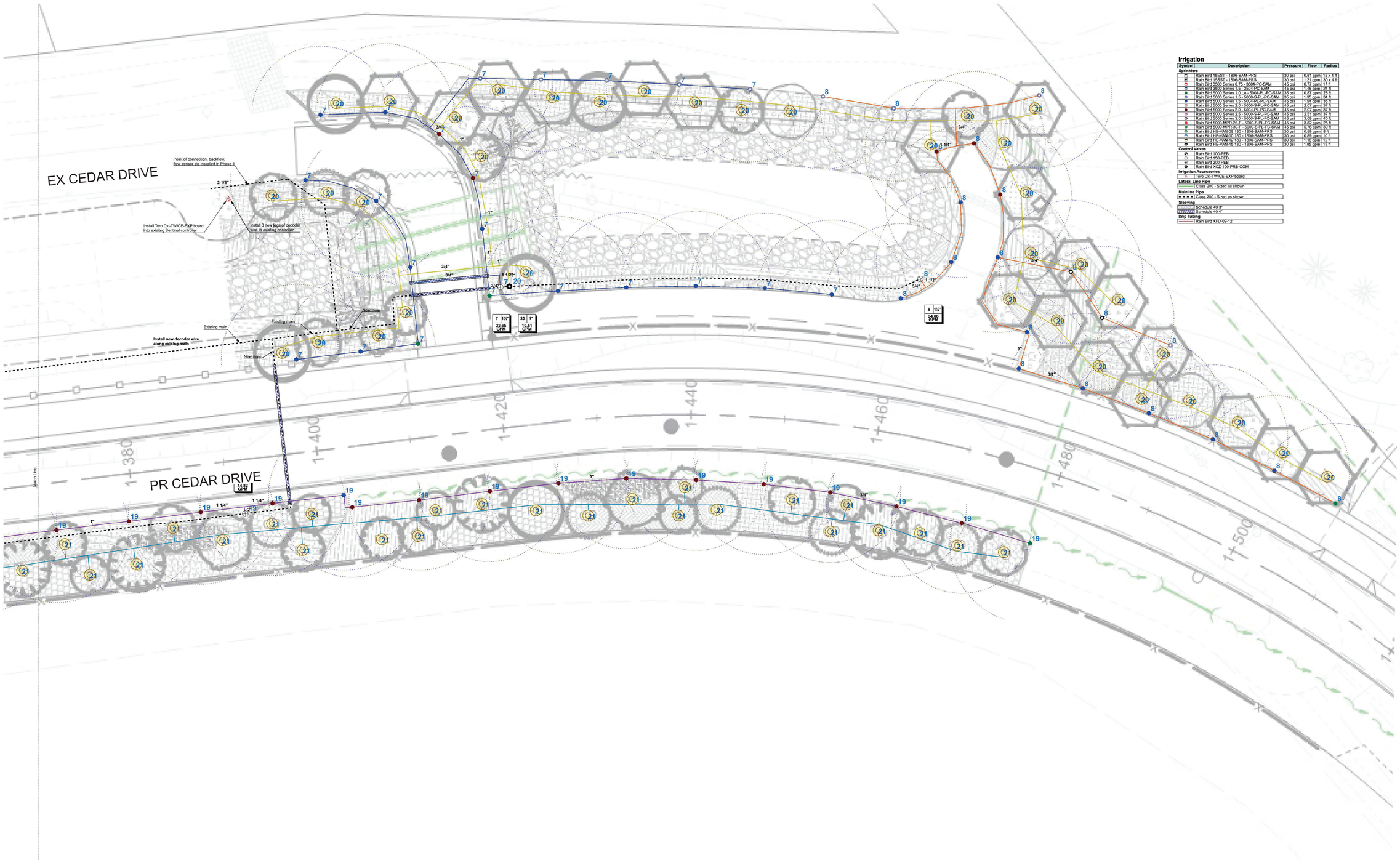
| | | | |
|---|---|---|---|
| SCALE | 1:200 | CREATION DATE | 2023/07/06 |
| DRAWN BY | KE | DESIGN BY | KE |
| CHECKED BY | CJB | APPROVED BY | CJB |

ADDENDUM #2 DESIGN NO. 33527

DWG. NO. 40 OF 42

REV. A

File: c:\ADSK\ACCDocs\ISL\32828_coq_cedardrive-phase1roadwork\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\32828_SH_Phase_2_Irrigation.dwg




## Irrigation

| Symbol | Description | Pressure | Flow | Radius |
|---|---|---|---|---|
| **Sprinklers** | | | | |
| | Rain Bird 15ESTT - 1806-SAM-PRS | 30 psi | 0.61 gpm | 15 x 4 ft |
| | Rain Bird 15SSTT - 1806-SAM-PRS | 30 psi | 1.21 gpm | 30 x 4 ft |
| | Rain Bird 3500 Series 0.5 - 3504-PC-SAM | 45 psi | 0.77 gpm | 17 ft |
| | Rain Bird 3500 Series 1.5 - 3504-PC-SAM | 45 psi | 1.48 gpm | 24 ft |
| | Rain Bird 5000 Series 1.0 LA - 5000-SPL-PC-SAM | 35 psi | 0.97 gpm | 29 ft |
| | Rain Bird 5000 Series 1.5 - 5000-SPL-PC-SAM | 35 psi | 1.35 gpm | 34 ft |
| | Rain Bird 5000 Series 1.5 - 5000-SPL-PC-SAM | 45 psi | 1.54 gpm | 35 ft |
| | Rain Bird 5000 Series 2.0 - 5000-SPL-PC-SAM | 45 psi | 2.07 gpm | 37 ft |
| | Rain Bird 5000 Series 2.5 - 5000-SPL-PC-SAM | 45 psi | 2.57 gpm | 37 ft |
| | Rain Bird 5000 Series 3.0 - 5000-SPL-PC-SAM | 45 psi | 2.93 gpm | 40 ft |
| | Rain Bird 5000 Series 4.0 - 5000-SPL-PC-SAM | 45 psi | 3.56 gpm | 42 ft |
| | Rain Bird 5000-MPR-360 - 5000-SPL-PC-SAM | 45 psi | 3.82 gpm | 45 ft |
| | Rain Bird HE-VAN 06 180 - 1806-SAM-PRS | 30 psi | 0.70 gpm | 10 ft |
| | Rain Bird HE-VAN 08 180 - 1806-SAM-PRS | 30 psi | 0.59 gpm | 8 ft |
| | Rain Bird HE-VAN 10 180 - 1806-SAM-PRS | 30 psi | 0.89 gpm | 10 ft |
| | Rain Bird HE-VAN 12 180 - 1806-SAM-PRS | 30 psi | 1.18 gpm | 12 ft |
| | Rain Bird HE-VAN 15 180 - 1806-SAM-PRS | 30 psi | 1.86 gpm | 15 ft |
| **Control Valves** | | | | |
| | Rain Bird 100-PEB | | | |
| | Rain Bird 150-PEB | | | |
| | Rain Bird 200-PEB | | | |
| | Rain Bird XCZ-100-PRB-COM | | | |
| **Irrigation Accessories** | | | | |
| | Toro Dxi-TWICE-EXP board | | | |
| **Lateral Line Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Mainline Pipe** | | | | |
| | Class 200 - Sized as shown | | | |
| **Sleeving** | | | | |
| | Schedule 40 3" | | | |
| | Schedule 40 4" | | | |
| **Drip Tubing** | | | | |
| | Rain Bird XFD-09-12 | | | |

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ADDENDUM #2 | 2023/07/06 | KE | CJB |

Coquitlam

# IRRIGATION

## CEDAR DRIVE UPGRADES - PHASE 2

PROFESSIONAL ENGINEER G. DE SOUZA ATAIDE # 50649 Province of British Columbia 2025-04-24

#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

ADDENDUM #2 DESIGN NO. 33527

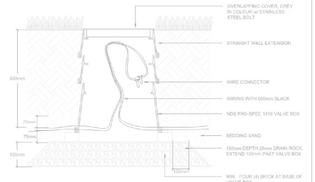
| | | | |
|---|---|---|---|
| SCALE | 1:200 | CREATION DATE | 2023/07/06 |
| DRAWN BY | KE | DESIGN BY | KE |
| CHECKED BY | CJB | APPROVED BY | CJB |

DWG. NO. 41 OF 42

REV. A

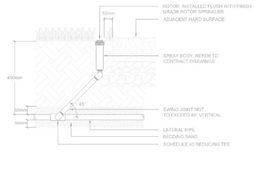
File: c:\ADSKACCDocs\ISL\32628_coq_cedardrive-phase1\roadworks\project files\02_CADD\20_drafting\003_sheets\phase 1 and 2 - cedar drive upgrades\32628_SH_Phase 2_Irrigation.dwg

Coquitlam PARK DEVELOPMENT STANDARD DETAIL



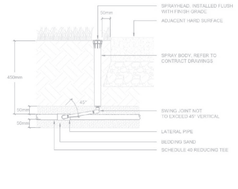

| WIRE SPLICE | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI03 |
| | SCALE: 1:10 | |

Coquitlam PARK DEVELOPMENT STANDARD DETAIL



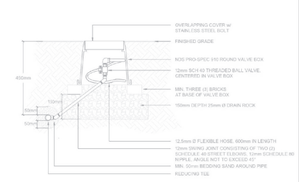

| ROTOR | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI16 |
| | SCALE: 1:10 | |

Coquitlam PARK DEVELOPMENT STANDARD DETAIL



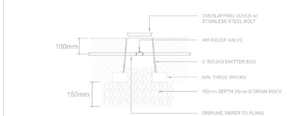

| 300mm SPRAYHEAD SPRINKLER | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI15 |
| | SCALE: 1:10 | |

Coquitlam PARK DEVELOPMENT STANDARD DETAIL



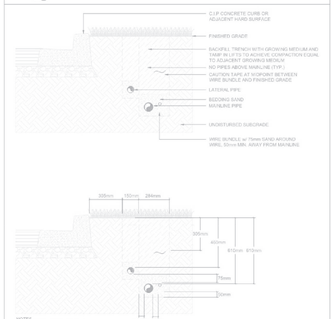

| FLUSH VALVE ASSEMBLY | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI20 |
| | SCALE: 1:10 | |

Coquitlam PARK DEVELOPMENT STANDARD DETAIL



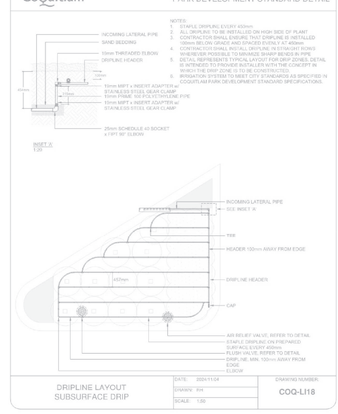

| AIR RELIEF VALVE | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI21 |
| | SCALE: 1:10 | |

Coquitlam PARK DEVELOPMENT STANDARD DETAIL



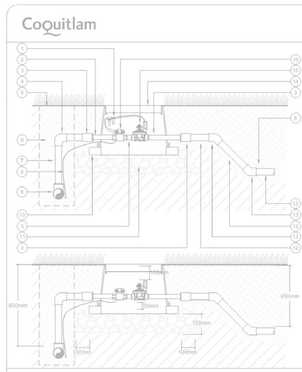

| TRENCH SECTION | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI22 |
| | SCALE: 1:15 | |

Coquitlam PARK DEVELOPMENT STANDARD DETAIL



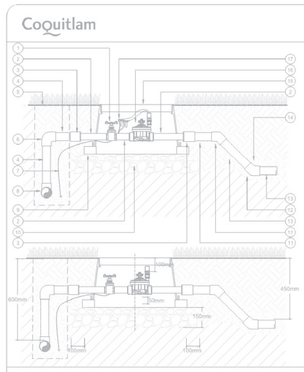

| DRIPLINE LAYOUT SUBSURFACE DRIP | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI18 |
| | SCALE: 1:50 | |

Coquitlam PARK DEVELOPMENT STANDARD DETAIL



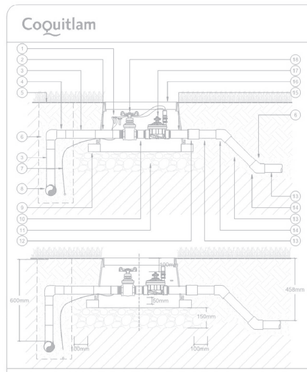

| ELECTRIC CONTROL VALVE 25mm | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI10 |
| | SCALE: 1:15 | |

Coquitlam PARK DEVELOPMENT STANDARD DETAIL



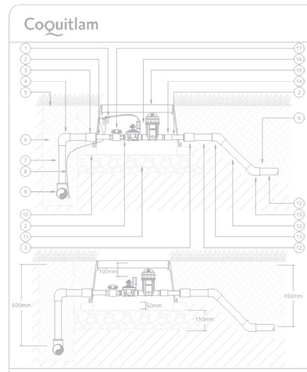

| ELECTRIC CONTROL VALVE 38mm | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI11 |
| | SCALE: 1:15 | |

Coquitlam PARK DEVELOPMENT STANDARD DETAIL




| ELECTRIC CONTROL VALVE 50mm | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI12 |
| | SCALE: 1:15 | |

Coquitlam PARK DEVELOPMENT STANDARD DETAIL




| DRIP ZONE KIT 25mm | DATE: 2024/11/04 | DRAWING NUMBER: |
|---|---|---|
| | DRAWN: RH | COQ-LI13 |
| | SCALE: 1:15 | |

PLOT DATE: April 24, 2025

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---|---|---|---|---|
| A | ADDENDUM #2 | 2025/04/24 | KE | CJB |

Coquitlam

# IRRIGATION DETAILS

## CEDER DR UPGRADES - PHASE 2

ADDENDUM #2 DESIGN NO.

33527

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G. DE SOUZA ATAIDE # 50849 APR 24/2025 ENGINEER 2025-04-24

KORS ISL

#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

| SCALE | AS SHOWN | CREATION DATE | 2023/07/06 | DWG. NO. |
|---|---|---|---|---|
| DRAWN BY | KE | DESIGN BY | KE | 42 OF 42 |
| CHECKED BY | CJB | APPROVED BY | CJB | REV. A |

File: c:\ADSKACCDocs\ISL\32628_coq_cedardrive-phase1roadworks\project files\02_CADD\20_drafting\203_sheets\phase 1 and 2 - cedar drive upgrades\32628_SH_Phase_2_Irrigation.dwg