

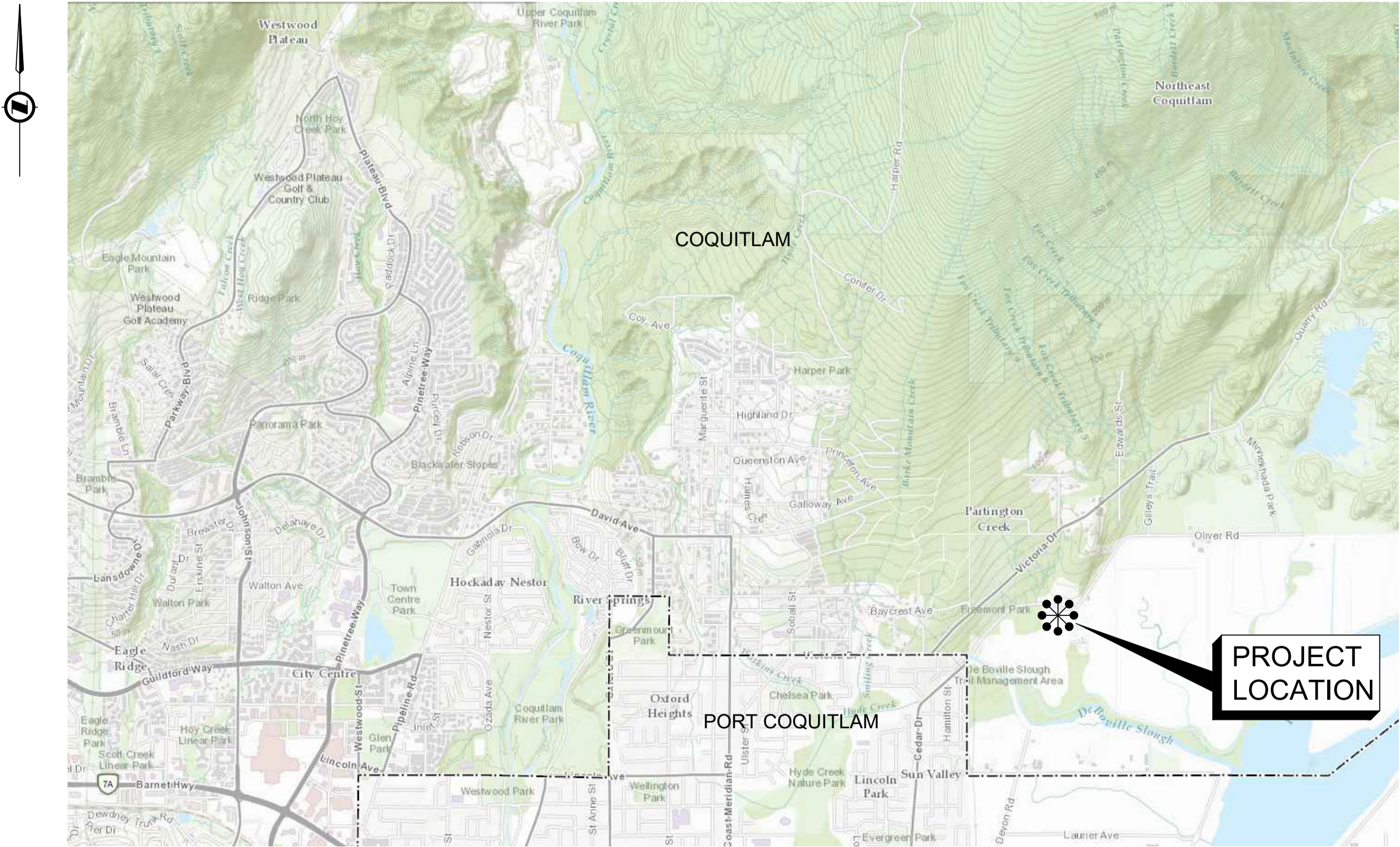
| DRAWING SCHEDULE | | | |
|------------------------|----------|--------------------------------|----------|
| CATEGORY | DWG. NO. | SHEET TITLE | REV. NO. |
| GENERAL | 00 | COVER | |
| | 01 | GENERAL NOTES | A |
| | 02 | KEY PLAN | A |
| | 03 | TYPICAL SECTIONS | A |
| DRAINAGE CHANNEL | 04 | DRAINAGE CHANNEL | A |
| | 05 | DRAINAGE CHANNEL | A |
| ENVIRONMENTAL PLANTING | 06 | ENVIRONMENTAL PLANTING 1 | A |
| | 07 | ENVIRONMENTAL PLANTING 2 | A |
| | 08 | ENVIRONMENTAL PLANTING 3 | A |
| | 09 | ENVIRONMENTAL PLANTING 4 | A |
| | 10 | ENVIRONMENTAL PLANTING DETAILS | A |
| ESC | 11 | ESC NOTES AND DETAILS | A |
| | 12 | ESC PLAN | A |
| IRRIGATION | 13 | IRRIGATION PLAN 1 | A |
| | 14 | IRRIGATION PLAN 2 | A |
| | 15 | IRRIGATION PLAN 3 | A |



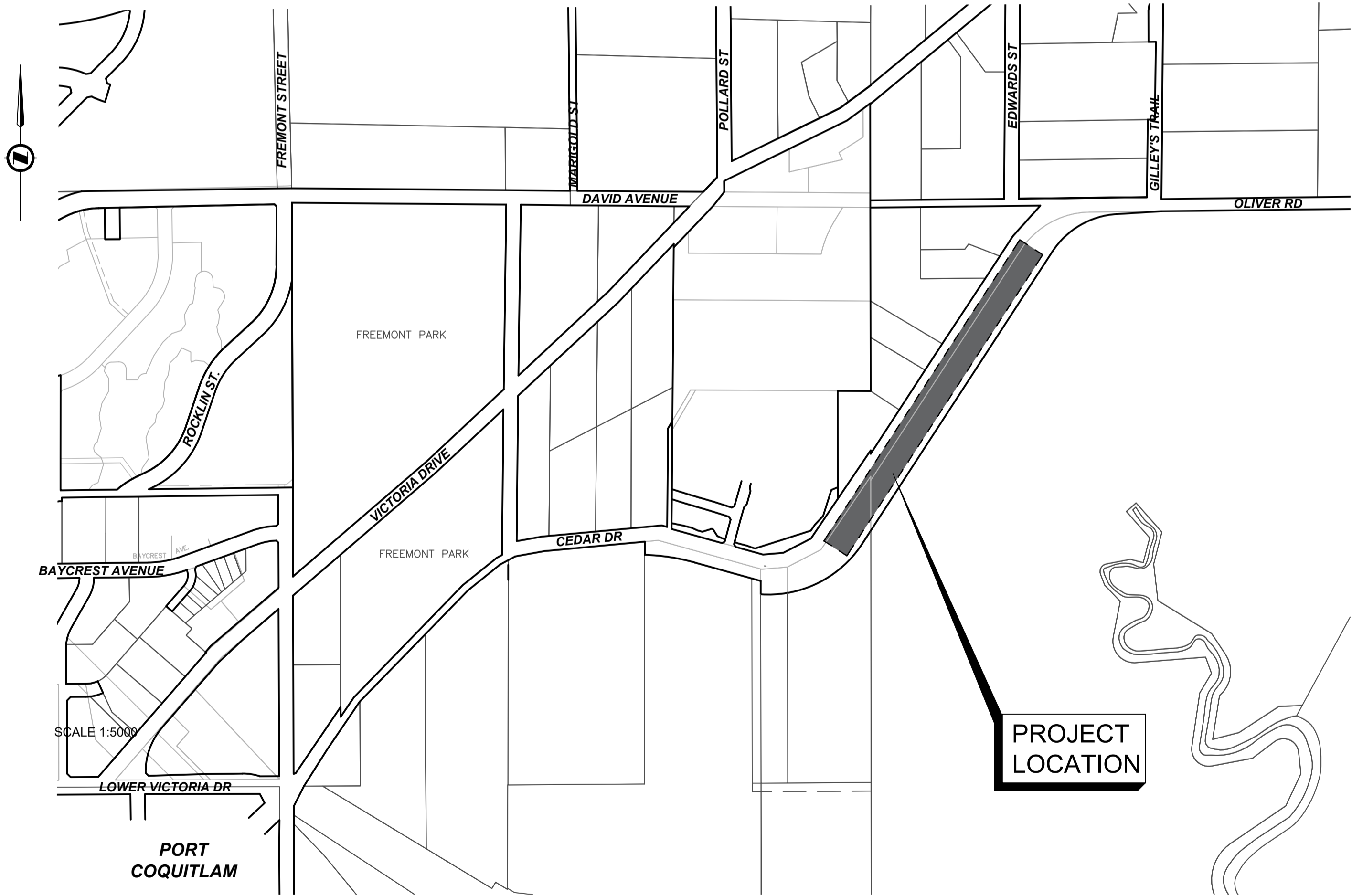
CEDAR DRIVE UPGRADES - PHASE 1

2024 CONSTRUCTION WORKS

ISSUED FOR TENDER



LOCATION PLAN
NTS



LOCATION PLAN

3. ELEVATIONS ARE RELATIVE TO CVD28GVRD. HORIZONTAL COORDINATES ARE IN LOCAL PROJECT GROUND COORDINATES. REFER TO SURVEY CONTROL TABLE ON THIS SHEET.
2. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE PLATINUM EDITION (2009) OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND MMCD SUPPLEMENTARY UPDATES TO DATE AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS UNLESS OTHERWISE NOTED.
3. RESIDENTS DIRECTLY AFFECTED BY CONSTRUCTION SHALL BE GIVEN AT LEAST 5 DAYS NOTICE PRIOR TO THE START OF CONSTRUCTION. IF CONSTRUCTION ENTERS ONTO PRIVATE PROPERTY, THE CONTRACTOR WILL REQUIRE WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER PRIOR TO UNDERTAKING ANY WORK.
4. THE LOCATION OF EXISTING UTILITIES IS COMPILED FROM OWNER AND UTILITY SUPPLIED RECORD DRAWINGS AND ARE CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION AND EXTENT OF UTILITIES SHOULD BE DETERMINED BY CONSULTING THE LOCAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND INVERT ELEVATION BY HAND OR HYDROVAC EXCAVATION BEFORE CONSTRUCTION OF UTILITY CROSSINGS AND SHALL BE RESPONSIBLE FOR RESTORATION OF ANY DAMAGE TO EXISTING UTILITIES. ANY COSTS ASSOCIATED WITH UTILITY CONFLICTS THAT WERE NOT PRELOCATED WILL BE THE CONTRACTORS RESPONSIBILITY.
5. THE CONTRACTOR IS TO NOTIFY THE CITY OF COQUITLAM 48 HOURS IN ADVANCE OF ANY CONSTRUCTION OR UTILITY RELOCATION/CONFLICTS.
6. REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR A MIN 72 HOURS PRIOR TO CONSTRUCTION.
7. ALL SURVEY MONUMENTS WITHIN THE PROJECT BOUNDARIES SHALL BE PROTECTED DURING THE COURSE OF THE WORK. SHOULD ANY SURVEY MONUMENT REQUIRE RAISING OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEERING AND OPERATIONS DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF SCHEDULING WORK. ALL DISTURBED MONUMENTS WILL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
8. SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
9. ALL PUBLIC ROADWAYS AFFECTED BY THE WORKS SHALL BE KEPT IN A CLEAN STATE AT ALL TIMES. DUST CONTROL MEASURES SHALL ALSO BE EMPLOYED DURING THE COURSE OF THE WORK.
10. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING THE VARIOUS PARTS OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THERE IS NO DISRUPTION TO SERVICE, AND IF DISRUPTION IS ANTICIPATED, TO NOTIFY THE CONTRACT ADMINISTRATOR A MINIMUM OF 72 HOURS PRIOR, AND OBTAIN APPROVAL FOR THE DISRUPTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCAVATED MATERIAL UNSUITABLE FOR REUSE AT A SUITABLE OFF-SITE DISPOSAL AREA, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
12. THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITY POLE SUPPORTS NECESSARY TO COMPLETE THE WORKS AS AN INCIDENTAL ITEM TO GENERAL CONTRACT REQUIREMENTS WHERE AND AS REQUIRED.
13. CONTRACTOR TO MAINTAIN AN UP TO DATE SET OF AS-CONSTRUCTED DRAWINGS AT ALL TIMES. AS-CONSTRUCTED DRAWINGS TO BE DELIVERED TO THE CONTRACT ADMINISTRATOR AT SUBSTANTIAL PERFORMANCE FOR PREPARATION OF FINAL RECORD DRAWINGS. THE CONTRACT ADMINISTRATOR SHALL BE PROVIDED ACCESS TO REVIEW THE AS-CONSTRUCTED DRAWINGS AT ALL TIMES TO CONFIRM THEY ARE UP TO DATE.
14. THE CONTRACTOR SHALL MAINTAIN AND MONITOR THE PROVISIONS FOR EROSION CONTROL AND SEDIMENT AS PER THE CITY BYLAW 4403, 2013 AND AS PER THE CONTRACT DOCUMENTS.

1. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SIGNAGE, BARRIERS, FLASHING INDICATORS, ETC. AT ALL TIMES TO ENSURE THE SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL COMPLY WITH ALL TRAFFIC REQUIREMENTS AS SPECIFIED WITHIN THE CONTRACT DOCUMENTS. NO ROAD SHALL BE CLOSED WITHOUT THE WRITTEN CONSENT OF THE DIRECTOR OF ENGINEERING AND OPERATIONS.
2. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORKS HAVE BEEN OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO COMMENCING THE WORK.
3. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE PERSONNEL AT LEAST 72 HOURS PRIOR TO THE WORK. SCHEDULING AND OTHER CONSTRUCTION CONSTRAINTS IMPOSED BY THESE WORKS SHALL BE TAKEN INTO ACCOUNT.
4. A TRAFFIC AND PEDESTRIAN SAFETY CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE PRE-CONSTRUCTION MEETING.
5. APPROVALS FOR REQUIRED TREE CUTTING OR TRIMMING NOT INDICATED IN CONTRACT DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR FROM THE CITY PRIOR TO WORK BEING PERFORMED.
6. CONTRACTOR TO OBTAIN APPROVED LANE CLOSURE REQUEST FORM FOR ALL WORKS. APPROVED REQUESTS ARE CIRCULATED TO ALL EMERGENCY SERVICES.
7. CONTRACTOR TO SUBMIT A TRAFFIC MANAGEMENT PLAN WITH LANE CLOSURE REQUEST FOR ALL MAJOR ROADS AND ANY LOCAL ROADS WHICH REQUIRE ANY DETOURS.
8. ALL TRAFFIC CONTROL TO CONFORM TO THE LATEST EDITION OF THE BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
9. APPROVAL OF NOISE VARIANCE FOR ALL WORK OUTSIDE OF NORMAL APPROVED WORK HOURS REQUIRED BY THE CITY.
10. NOTICE OF CONSTRUCTION SIGNS TO BE INSTALLED AT ALL PROJECT LIMITS AND PREFERRED DETOUR ROUTE. NOTIFY CONTRACT ADMINISTRATOR WITH CONSTRUCTION SCHEDULE AND LOCATIONS. SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETION OF ALL TAPED TEMPORARY AND PERMANENT PAINT AND THERMOPLASTIC PAVEMENT MARKINGS IN THE PLACE OF THE WORK. PERMANENT LANE MARKINGS ARE TO BE PLACED WITHIN SEVENTY-TWO (72) HOURS OF FINAL PAVING AND PERMANENT THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE PLACED WITHIN FIVE (5) DAYS OF FINAL PAVING. ALL TEMPORARY MARKINGS TO BE REMOVED IMMEDIATELY FOLLOWING PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
12. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE TRAFFIC MANAGEMENT DETAILED SPECIFICATIONS IN THE CONTRACT DOCUMENTS.

NO CHANGES TO BE MADE TO PIPES, MANHOLES, OR ALIGNMENT WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.

2. THE CONTRACTOR IS TO EXPOSE EXISTING WATERMAINS, STORM AND SANITARY SEWERS AT TIE-IN LOCATION AND ALL EXISTING UTILITIES BETWEEN UTILITY DEPTHS AND LOCATIONS ARE TO BE RECORDED AND FORWARDED TO THE CONTRACT ADMINISTRATOR FOR REVIEW.

3. ASSURANCE OF PROTECTION OF THE WATERMAIN AS PER FRASER HEALTH AUTHORITY, JULY 14, 2006:
PARALLEL LINES: WATERMAINS SHOULD BE LAID AT LEAST 3m HORIZONTALLY FROM ANY SANITARY OR STORM SEWER. WHERE THIS HORIZONTAL SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATERMAIN SHOULD BE AT LEAST 45cm ABOVE THE TOP OF THE SEWER AND SUFFICIENTLY TO ONE SIDE OF THE SEWER TO ALL FOR SEWER REPAIRS WITHOUT DISTURBING THE WATERMAIN. IF THIS VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER SHOULD BE OF THE SAME SERVICE CAPABILITY AS THE WATERMAIN, WITH PRESSURE CLASS JOINTS DESIGNED TO REMAIN WATERTIGHT IF THE GROUNDWATER TABLE PERIODICALLY RISES ABOVE THE SEWER, AND ARE PRESSURE TESTED BEFORE BACKFILLING. OTHER PRECAUTIONS, SUCH AS A WATERMAIN WITH IMPROVED JOINTS AND HIGHER STRENGTH MAY BE NEEDED.

4. CROSSINGS: WHERE A WATERMAIN CROSSES A SANITARY OR STORM SEWER, THE LINES SHOULD BE LAID WITH THE WATERMAIN CROSSING OVER THE SEWER AND WITH THE MIDDLE OF PIPE LENGTHS LOCATED AT THE CROSSING POINT, TO MAXIMIZE THE SEPARATION BETWEEN JOINTS. WHERE A MINIMUM 3m JOINT SEPARATION AND/OR A MINIMUM 45cm CLEAR VERTICAL SEPARATION IS NOT POSSIBLE AT THE CROSSING, PRECAUTIONS TO IMPROVE WATER TIGHTNESS OF THE SEWER JOINTS AND STRUCTURAL IMPROVEMENTS SUCH AS HIGHER STRENGTH WATERMAIN AND/OR SEWER AT THE CROSSING AREA MAY BE NEEDED. SLEEVING, PIPE BRIDGING OR OTHER SUITABLE MEASURES MAY BE CONSIDERED. ALL JOINTS WITHIN 3m OF THE CROSSING SHOULD BE:

- WRAPPED WITH HEAT SHRINK PLASTIC OR
- PACKED WITH INERT PETROLATUM COMPOUND AND WRAPPED IN TAPE IN ACCORDANCE WITH ANSI/AWWA STANDARDS C209 AND C217-90.

FOR SERVICE CONNECTIONS, WHEREVER POSSIBLE, THE ABOVE CONSTRUCTION PRACTICES SHOULD ALSO BE APPLIED.

5. FIGURED DIMENSION SHALL GOVERN OVER SCALED DIMENSIONS.

6. REFER TO COQ STD. DWG. COQ-G4 FOR UTILITY TRENCH DETAIL.

7. STORM SEWER MATERIALS ARE TO CONFORM TO THE MMCD SPECIFICATIONS.

8. ALL PIPE SIZES INDICATED REFER TO MINIMUM INSIDE DIAMETER DIMENSIONS.

9. ALL CATCH BASINS SHALL BE AS PER COQ STD. DWG. COQ-S11A.

10. CATCH BASIN AND LAWN DRAIN LEADS TO BE 150mm DIAMETER PVC 28 PIPE FOR SINGLE CATCH BASINS AND LAWN DRAINS THAT TIE INTO THE MAIN DIRECTLY. LEADS ARE TO BE 200mm DIAMETER PVC 35 PIPE FROM THE STORM MAIN TO THE WYE FOR CATCH BASIN/LAWN DRAIN COMBINATIONS AS PER THE CONNECTION DETAIL ON SHEET 4.

3. ALL NEW 300mm WATERMAINS SHALL BE CLASS 50 DUCTILE IRON AND INSTALLED WITH 1.0m MINIMUM COVER UNLESS OTHERWISE NOTED. ALL NEW 400mm WATERMAINS SHALL BE PRESSURE CLASS 350 DUCTILE IRON AND INSTALLED WITH 1.2m MINIMUM COVER UNLESS OTHERWISE NOTED.
5. NO CHANGES TO BE MADE TO PIPE, FITTINGS, OR ALIGNMENT WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR
6. ALL TIE-INS TO EXISTING WATERMAINS AND WATER SERVICE TRANSFERS WILL BE PERFORMED BY THE CONTRACTOR.
7. THE CONTRACTOR IS TO EXPOSE EXISTING WATERMAINS AND WATER SERVICES AT TIE-IN LOCATION AND ALL EXISTING UTILITIES BETWEEN. UTILITY DEPTHS ARE TO BE RECORDED AND FORWARDED TO THE CONTRACT ADMINISTRATOR FOR REVIEW.
8. ASSURANCE OF PROTECTION OF THE WATERMAIN AS PER FRASER HEALTH AUTHORITY, JULY 14, 2006
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 - WRAPPED WITH HEAT SHRINK PLASTIC OR;
 - PACKED WITH INERT PETROLATUM COMPOUND AND WRAPPED IN TAPE IN ACCORDANCE WITH ANSI/AWWA STANDARDS C209 AND C217-90.
8. THRUST BLOCKS: THRUST BLOCKS TO BE PROVIDED AT ALL FITTINGS & CHANGES IN DIRECTION AS PER MMCD DETAIL DRAWING W1. WHERE CONDITIONS DO NOT PERMIT USE OF THRUST BLOCKS, THE CONTRACTOR SHALL USE JOINT RESTRAINTS AS SPECIFIED IN THE OWNER'S SUPPLEMENTAL SPECIFICATIONS.

9. ALL NEW FIRE HYDRANTS TO BE AS PER CITY OF COQUITLAM STANDARDS. HYDRANT ASSEMBLIES INCLUDE THE

10. MAXIMUM JOINT DEFLECTION SHOULD NOT EXCEED ONE-HALF OF THE MANUFACTURER'S RECOMMENDED SPECIFICATION.
11. ALL VERTICAL BENDS TO BE MINIMUM 2-LUG AND TIE-RODDED TOGETHER AND USE FIELD LOK 350 GASKETS FOR 3 PIPE LENGTHS BACK OF VERTICAL FITTINGS.
12. FIGURED DIMENSION SHALL GOVERN OVER SCALED DIMENSIONS.
13. ALL VALVES GREATER THAN 1.5m DEEP FROM THE NUT REQUIRE AN EXTENSION
14. ALL PIPE ZONE BACKFILL TO HAVE LESS THAN 50ppm CHLORIDE IONS, AND LESS THAN 50ppm SULFATE IONS. CONTRACTOR TO PROVIDE SOURCE TESTING RESULTS PRIOR TO DELIVERY TO SITE.

Diagram illustrating the vertical alignment of a road cross-section, showing the relationship between the road surface, the stream/creek/ditch, and the surrounding banks. The diagram includes labels for the following features:

- BOTTOM OF BANK
- TOP OF BANK
- STREAM / CREEK / DITCH
- EDGE OF PAVEMENT
- EDGE OF GRAVEL/DIRT
- EDGE OF GRAVEL/DIRT

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|--------------------|---|-------------------------|---|---------------------|---|----------------------------|
|  | WATER VALVE AIR |  | STORM CATCHBASIN DOUBLE |  | WATER VALVE AIR |  | STORM CATCHBASIN DOUBLE |
|  | WATER BEND 90° |  | STORM CATCHBASIN |  | WATER BEND 90° |  | STORM CATCHBASIN TOP INLET |
|  | WATER BEND 45° |  | STORM CULVERT |  | WATER BEND 45° |  | STORM CULVERT |
|  | WATER BEND 22.5° |  | STORM SWALE |  | WATER BEND 22.5° |  | STORM LAWN DRAIN |
|  | WATER BEND 11.25° |  | STORM LAWN DRAIN |  | WATER BEND 11.25° |  | STORM MANHOLE |
|  | WATER BLOWOFF |  | STORM MANHOLE |  | WATER BLOWOFF |  | STORM DITCH |
|  | WATER CAP |  | STORM SERVICE |  | WATER CROSS |  | SANITARY MANHOLE |
|  | WATER CROSS |  | SANITARY MANHOLE |  | WATER HYDRANT |  | GUY WIRE |
|  | WATER HYDRANT |  | STORM SERVICE |  | WATER REDUCER |  | UTILITY TEL JUNCTION BOX |
|  | WATER REDUCER |  | SIGN |  | WATER ROBAR/ADAPTER |  | POLE |
|  | WATER ROBAR |  | STREETLIGHT |  | WATER SERVICE |  | MISC SIGN |
|  | WATER SERVICE |  | WALKWAY LIGHT |  | WATER TEE |  | TREE |
|  | WATER TEE | | |  | WATER THRUST BLOCK | | |
|  | WATER THRUST BLOCK |  | JUNCTION BOX |  | WATER VALVE | | |
|  | WATER VALVE |  | ELECTRICAL BOX |  | CAP | | |

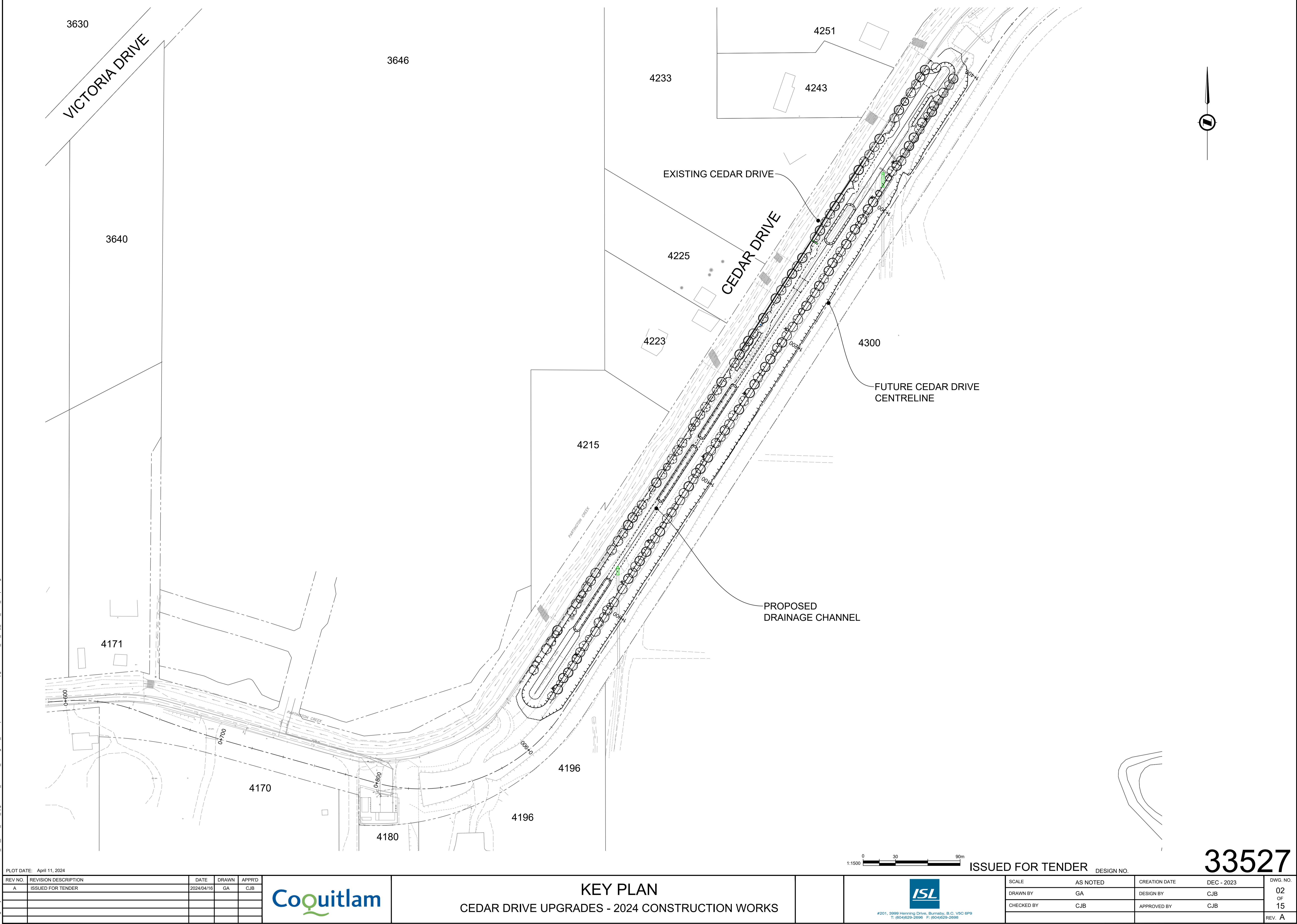
| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
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| A | ISSUED FOR TENDER | 2024/04/16 | GA | CJB |
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| SCALE | AS NOTED | CREATION DATE | DEC - 2023 | DWG. NO. 01 OF 15 |
| DRAWN BY | GA | DESIGN BY | CJB | |
| CHECKED BY | CJB | APPROVED BY | CJB | |
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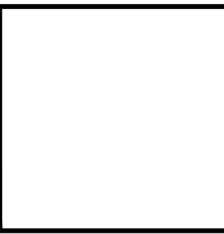
PLOT DATE: April 11, 2024

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
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| A | ISSUED FOR TENDER | 2024/04/16 | GA | CJB |
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KEY PLAN

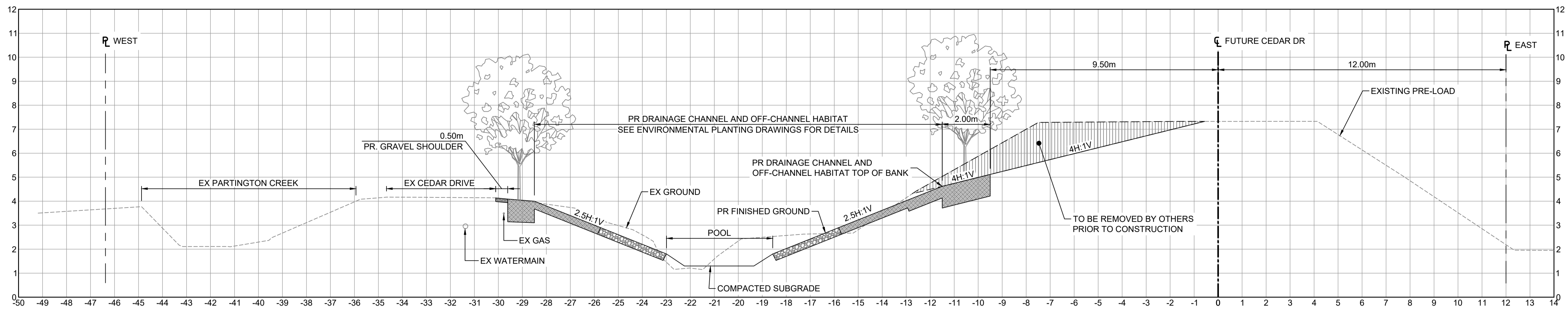
CEDAR DRIVE UPGRADES - 2024 CONSTRUCTION WORKS



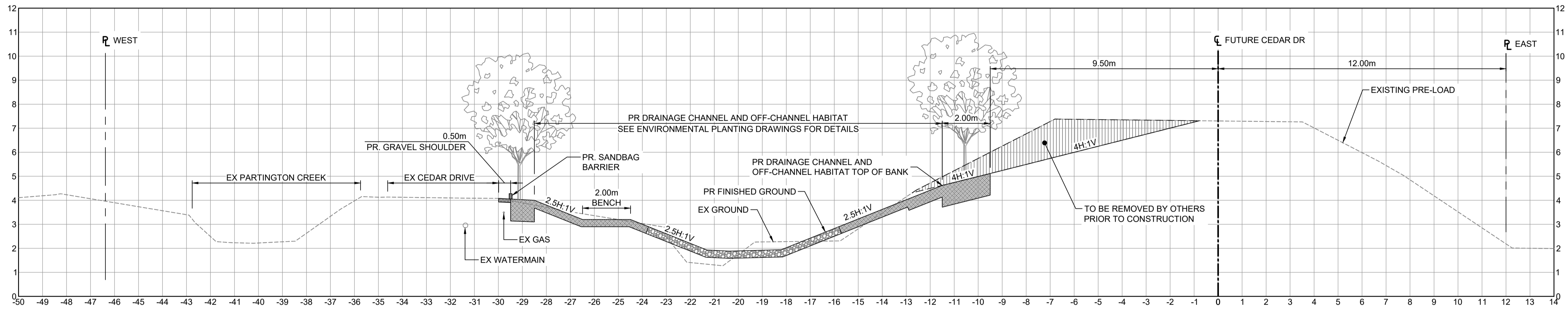


#201, 3998 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604) 629-3296 F: (604) 629-3298

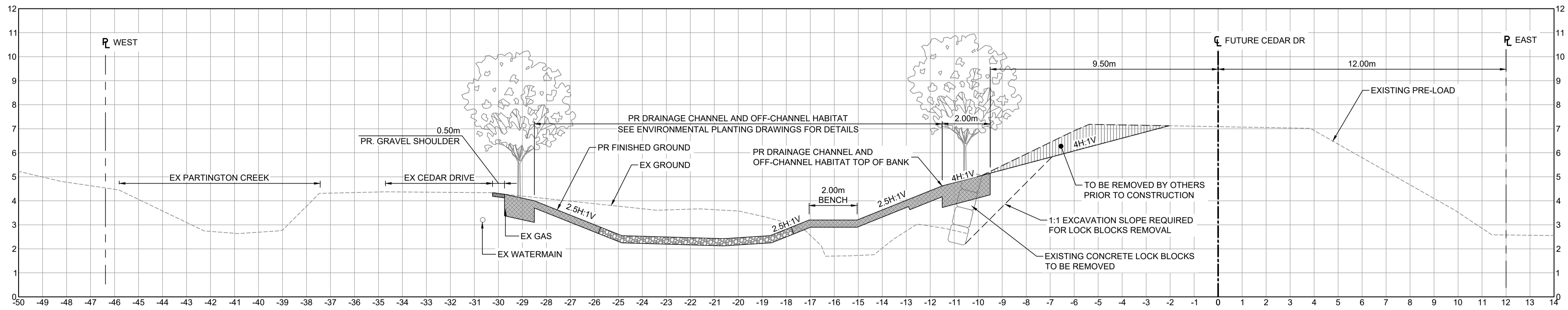
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| DRAWN BY | GA | DESIGN BY | CJB | 02 |
| CHECKED BY | CJB | APPROVED BY | CJB | OF |
| | | | | 15 |
| | | | | REV. A |



TYPICAL SECTION - STA 0+150
SCALE: 1:100



TYPICAL SECTION - STA 0+320
SCALE: 1:100



TYPICAL SECTION - STA 0+500
SCALE: 1:100

PLOT DATE: April 16, 2024

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
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| A | ISSUED FOR TENDER | 2024/04/16 | GA | CJB |
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TYPICAL SECTIONS

CEDAR DRIVE UPGRADES - 2024 CONSTRUCTION WORKS



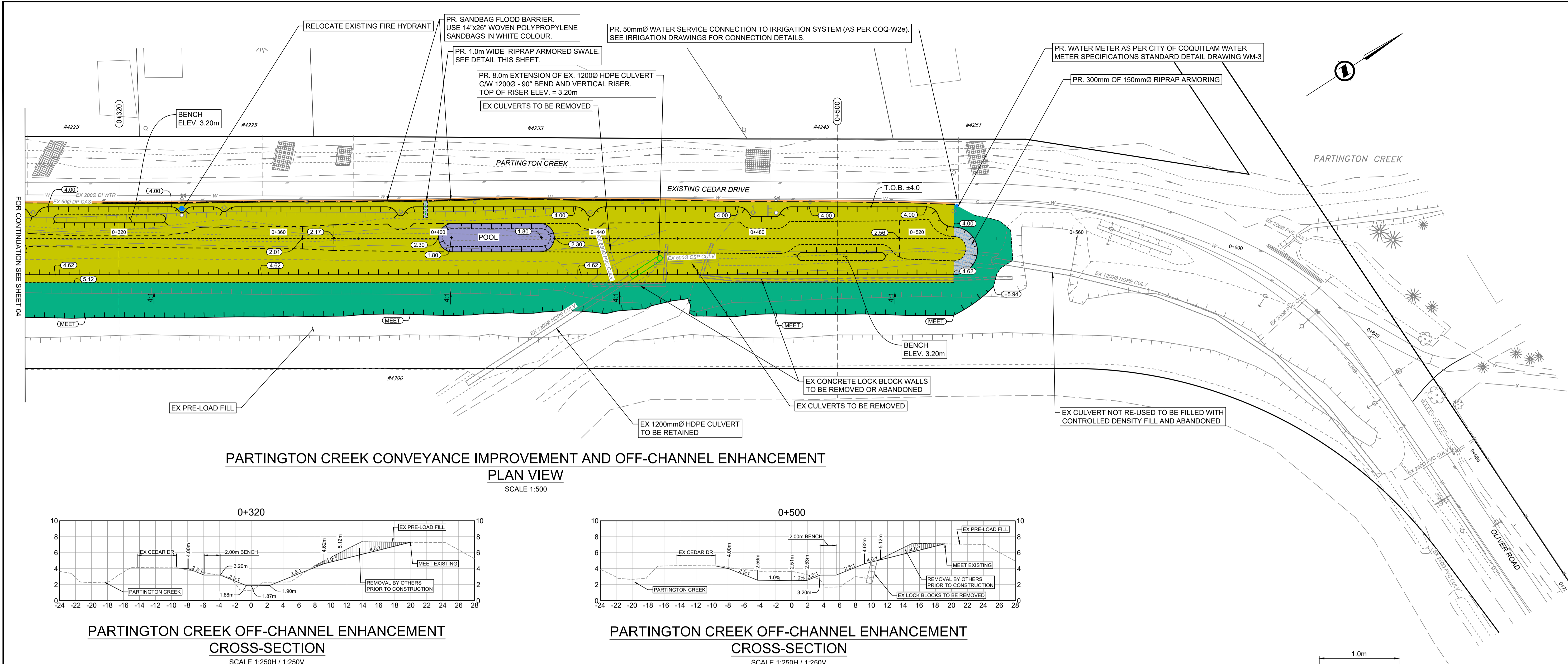
#201, 3998 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604) 293-2696 F: (604) 293-2695

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DESIGN NO.

| SCALE | AS NOTED | CREATION DATE | DEC - 2023 | DWG. NO. |
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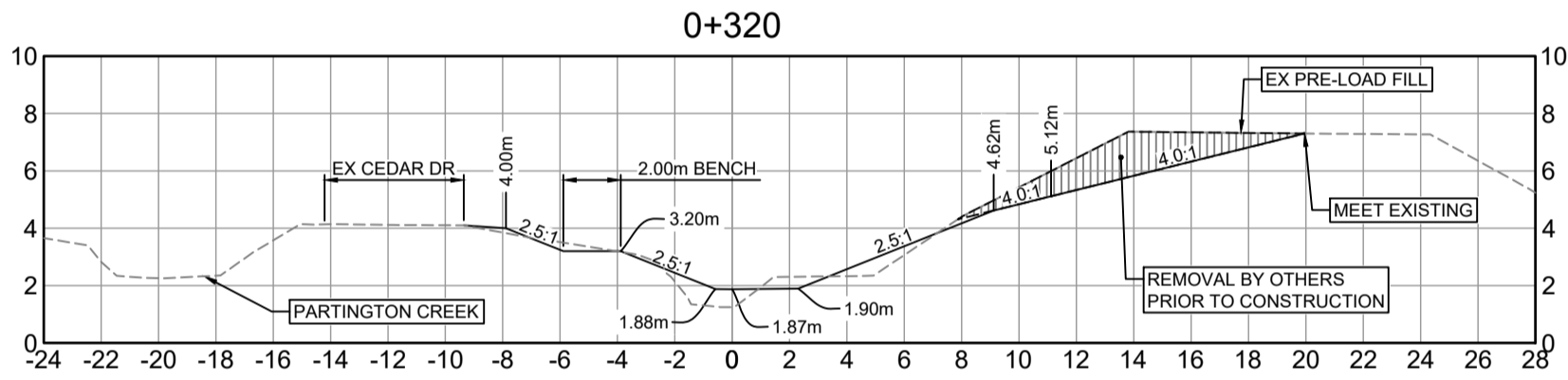
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PARTINGTON CREEK CONVEYANCE IMPROVEMENT AND OFF-CHANNEL ENHANCEMENT

PLAN VIEW

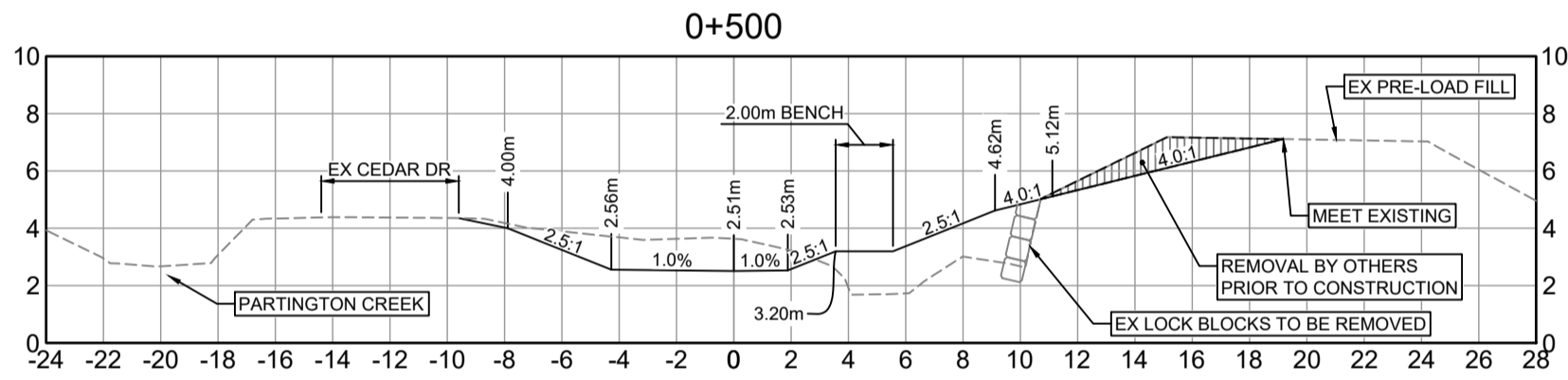
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PARTINGTON CREEK OFF-CHANNEL ENHANCEMENT

CROSS-SECTION

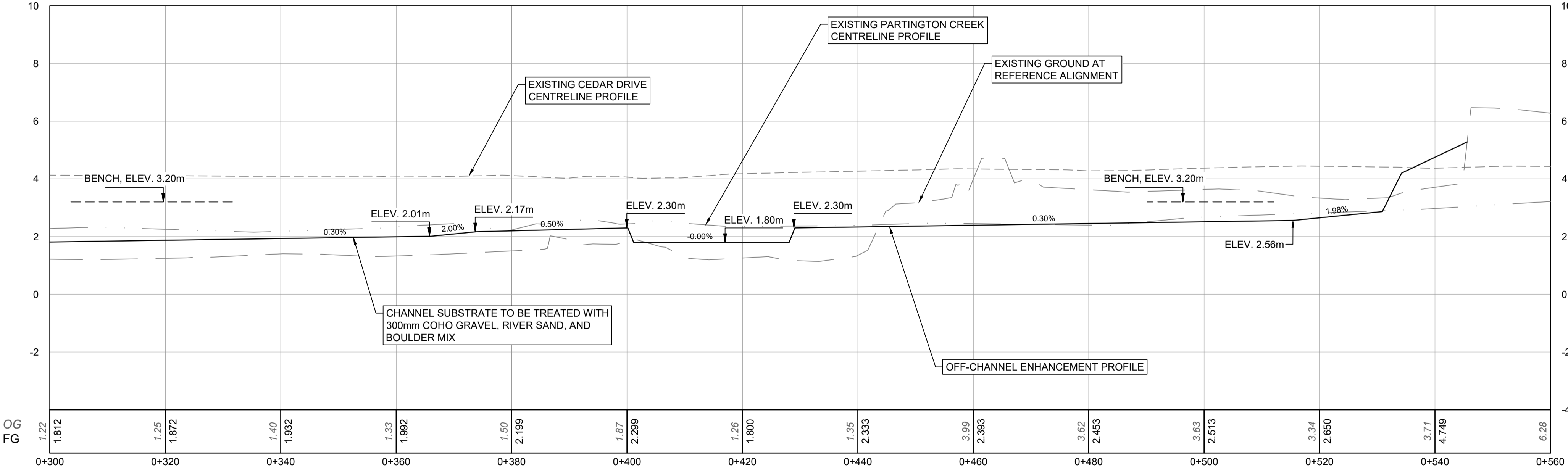
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PARTINGTON CREEK OFF-CHANNEL ENHANCEMENT

CROSS-SECTION

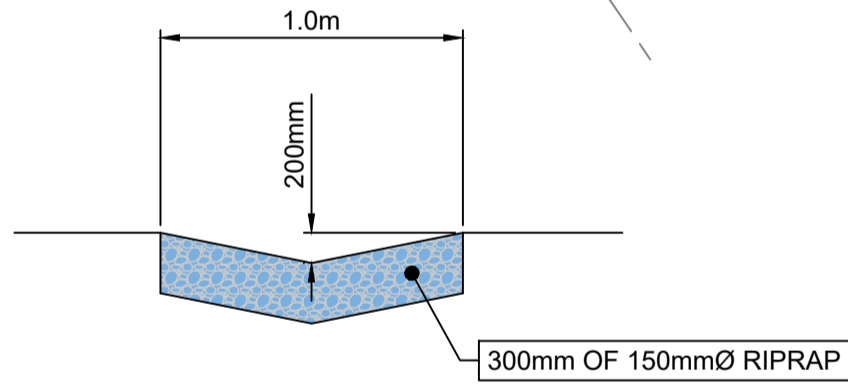
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PARTINGTON CREEK CONVEYANCE IMPROVEMENT AND OFF-CHANNEL ENHANCEMENT

PROFILE VIEW

SCALE 1:500H / 1:100V



RIPRAP ARMORED SWALE

SECTION DETAIL

NTS

SURFACE TREATMENT

- RIPARIAN PLANTING
SEE ENVIRONMENTAL PLANTING DRAWINGS FOR DETAILS
- HYDROSEEDING
- COMPACTED SUBGRADE
- GRAVEL SHOULDER:
- 150mm OF 19mm MINUS GRANULAR BASE
- 300mm OF 150mm RIPRAP ARMORING



ISSUED FOR TENDER

DESIGN NO.

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| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
| A | ISSUED FOR TENDER | 2024/04/16 | GA | CJB |
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DRAINAGE CHANNEL
CEDAR DRIVE UPGRADES - 2024 CONSTRUCTION WORKS

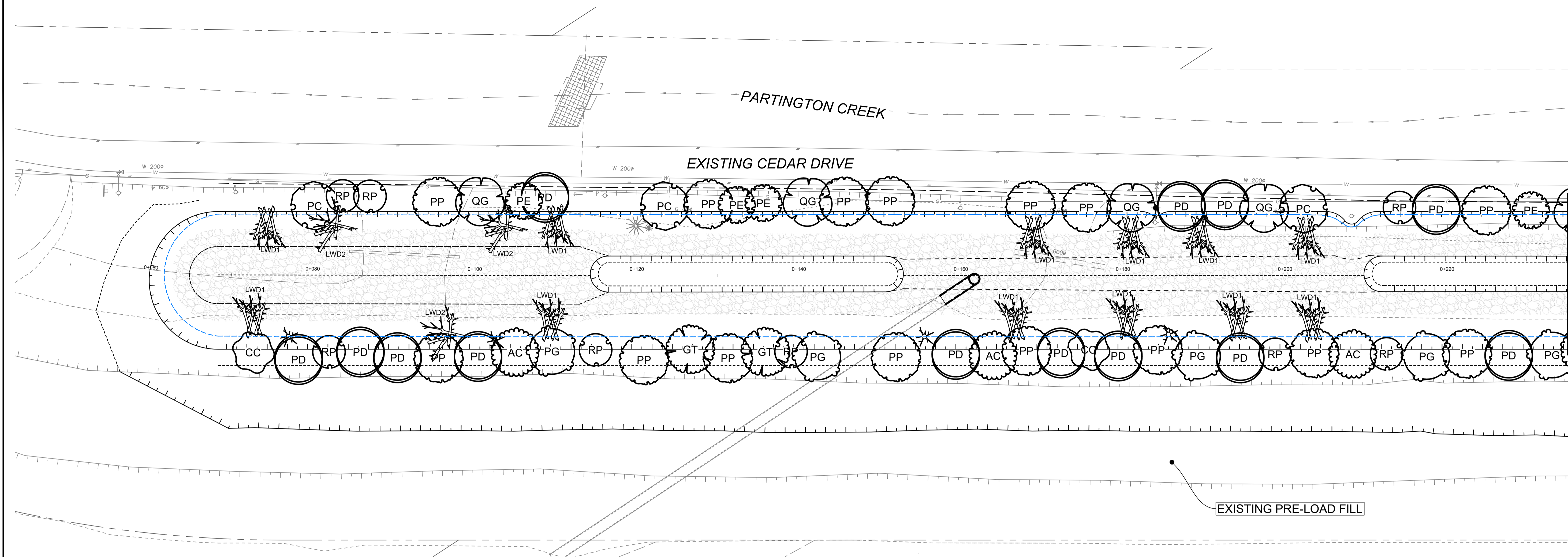


#503, 4190 Lougheed Hwy, Burnaby, B.C. V5C 6A8
T: (604) 293-2096 F: (604) 293-2095

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| SCALE | AS NOTED | CREATION DATE | DEC - 2023 | DWG. NO. |
| DRAWN BY | GA | DESIGN BY | CJB | 05 |
| CHECKED BY | CJB | APPROVED BY | CJB | OF |
| | | | | 15 |
| | | | | REV. A |

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PLANT SCHEDULE - TREES

| SYMBOL | CODE | QTY | BOTANICAL NAME | COMMON NAME | SIZE |
|--------|------|-----|--------------------------------|---------------------|-----------|
| TREES | | | | | |
| | AC | 7 | Amelanchier canadensis | Canada Serviceberry | 50mm Cal. |
| | BA | 3 | Betula alleghaniensis | Yellow Birch | 50mm Cal. |
| | CC | 3 | Cercis canadensis | Eastern Redbud | 50mm Cal. |
| | CD | 1 | Crataegus douglasii suksdorfii | Black Hawthorn | 50mm Cal. |
| | GT | 3 | Gleditsia triacanthus | Honey Locust | 50mm Cal. |
| | PG | 8 | Picea glauca | White Spruce | 2m Ht. |
| | PC | 8 | Pinus contorta | Shore Pine | 50mm Cal. |
| | PP | 38 | Pinus ponderosa | Ponderosa Pine | 2m Ht. |
| | PE | 6 | Prunus emarinata | Bitter Cherry | 50mm Cal. |
| | PD | 50 | Pseudotsuga menziesii | Douglas Fir | 2m Ht. |
| | QG | 19 | Quercus garryana | Garry Oak | 50mm Cal. |
| | RP | 14 | Rhamnus purshiana | Cascara | 50mm Cal. |

| LEGEND | |
|--------|---------------------------|
| SYMBOL | DESCRIPTION |
| | LARGE WOODY DEBRIS TYPE 1 |
| | LARGE WOODY DEBRIS TYPE 2 |
| | TREE SNAG |
| | GRAVEL AND BOULDERS |
| | HIGH WATER LEVEL |



| PLOT DATE: April 16, 2024 | | | | |
|---------------------------|----------------------|------------|-------|--------|
| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
| A | ISSUED FOR TENDER | 2024/04/16 | EZ | AR |
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ENVIRONMENTAL PLANTING 1
CEDAR DRIVE UPGRADES - 2024 CONSTRUCTION WORKS



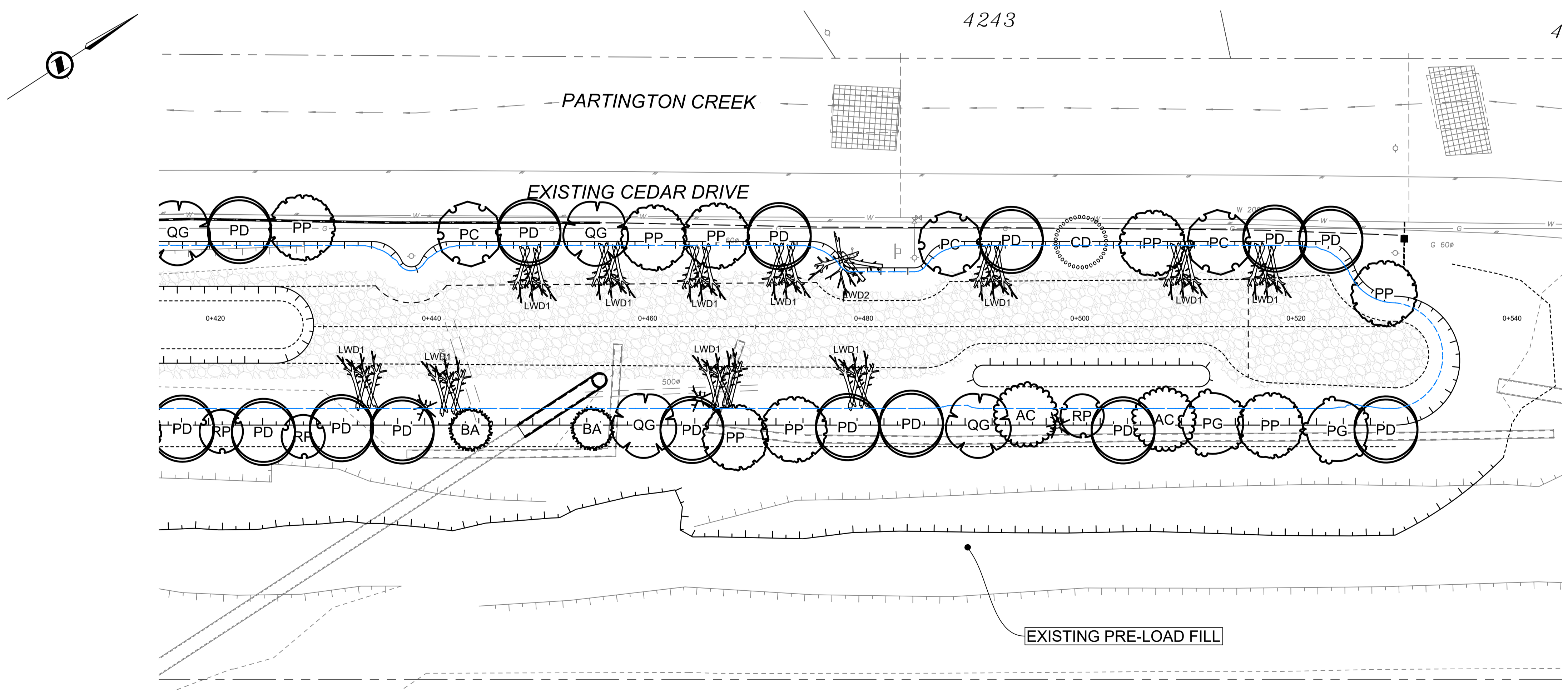
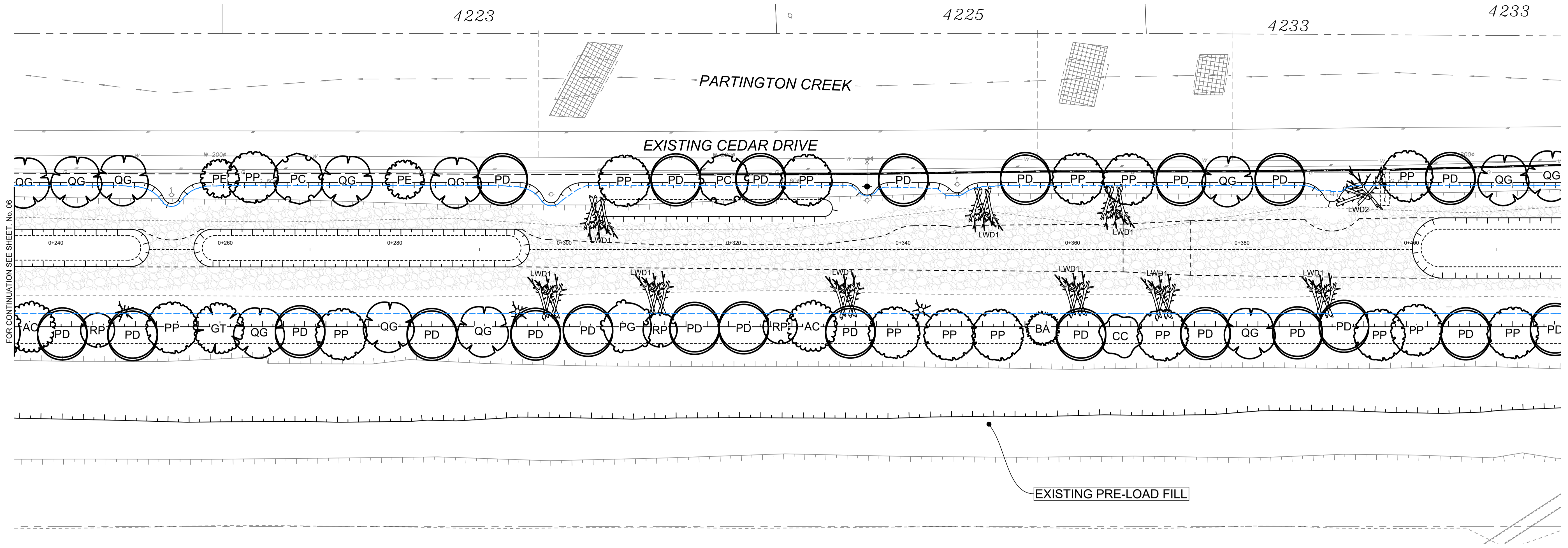
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604) 293-3096 F: (604) 293-3095

ISSUED FOR TENDER DESIGN NO.

| | | | |
|------------|----------|---------------|------------|
| SCALE | AS NOTED | CREATION DATE | DEC - 2023 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |

| | |
|----------|----|
| DWG. NO. | 06 |
| OF | 15 |
| REV. | A |

33527



| LEGEND | |
|--------|---------------------------|
| SYMBOL | DESCRIPTION |
| | LARGE WOODY DEBRIS TYPE 1 |
| | LARGE WOODY DEBRIS TYPE 2 |
| | TREE SNAG |
| | GRAVEL AND BOULDERS |
| | HIGH WATER LEVEL |



Plot Date: April 16, 2024

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---------|----------------------|------------|-------|--------|
| A | ISSUED FOR TENDER | 2024/04/16 | EZ | AR |
| | | | | |
| | | | | |
| | | | | |

ENVIRONMENTAL PLANTING 2

CEDAR DRIVE UPGRADES - 2024 CONSTRUCTION WORKS

#201, 3998 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604) 293-2696 F: (604) 293-2695

ISSUED FOR TENDER

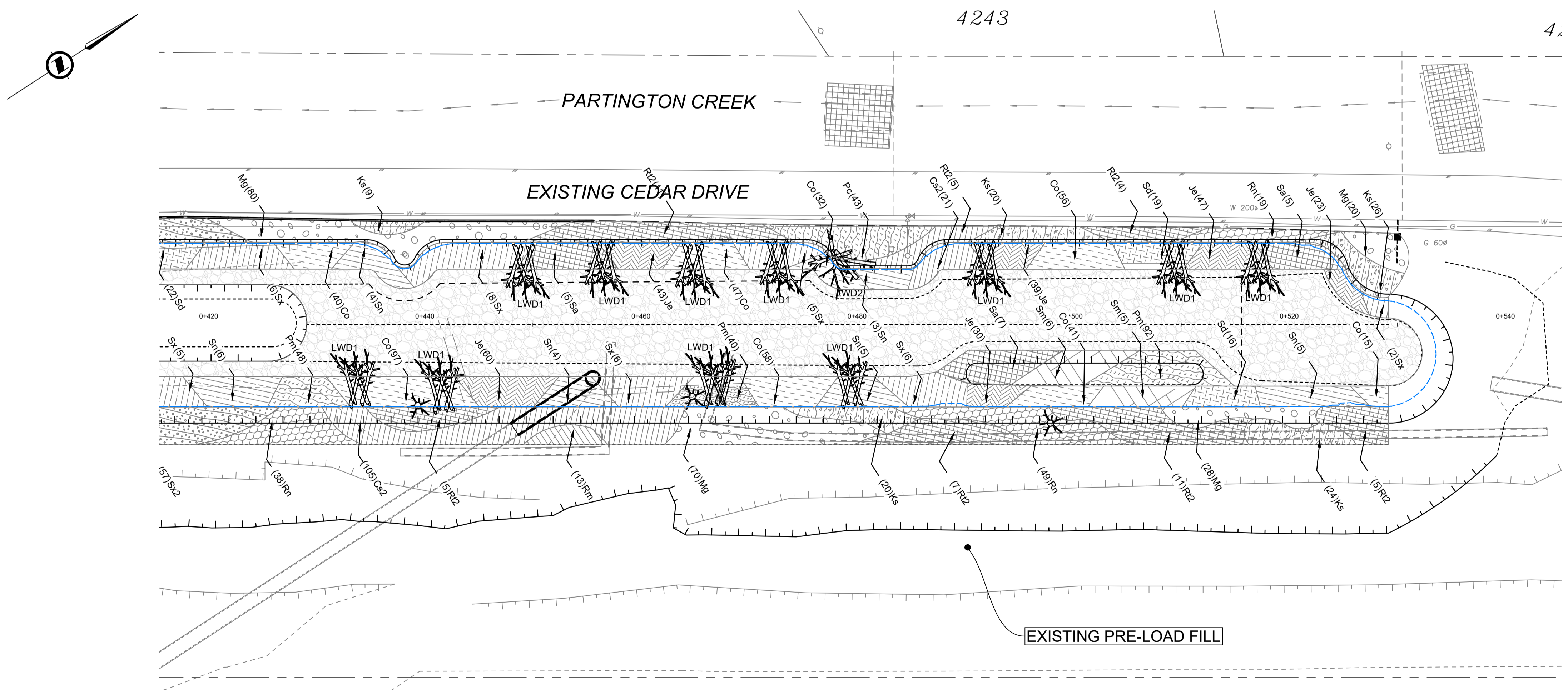
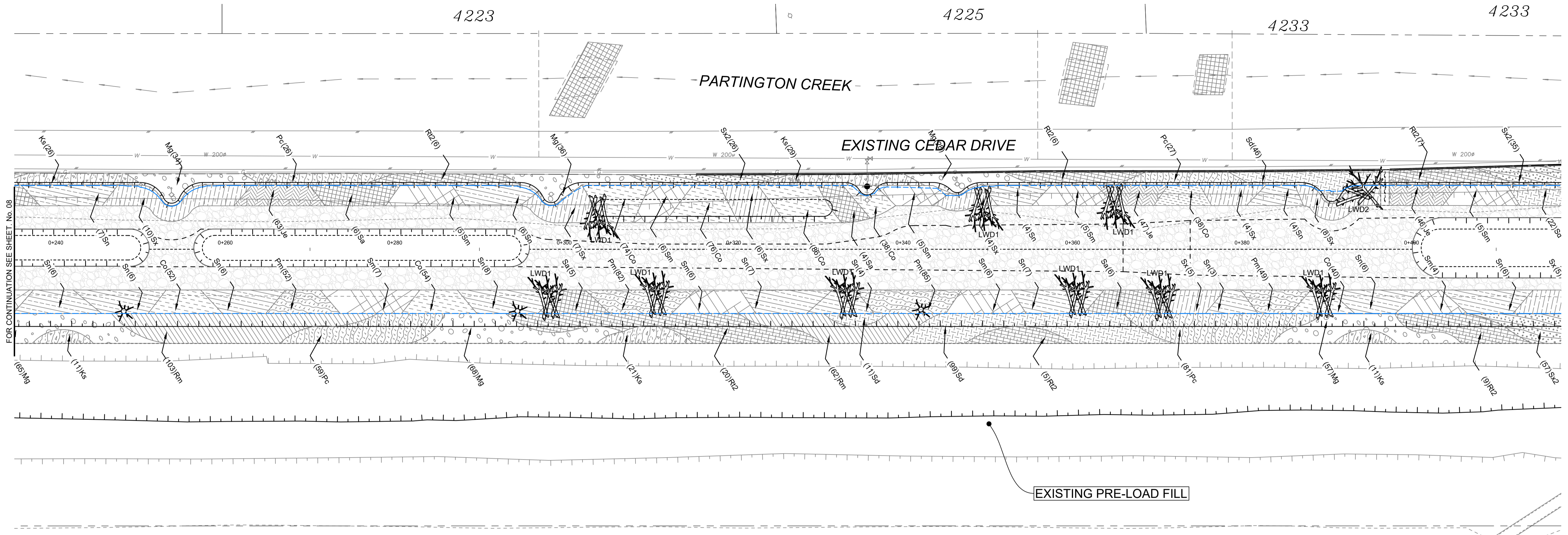
DESIGN NO.

| | | | |
|------------|----------|---------------|------------|
| SCALE | AS NOTED | CREATION DATE | DEC - 2023 |
| DRAWN BY | GA | DESIGN BY | CJB |
| CHECKED BY | CJB | APPROVED BY | CJB |

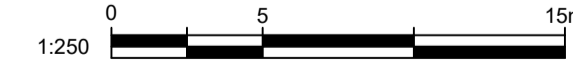
33527

DWG. NO. 07 OF 15

REV. A



| LEGEND | |
|--------|---------------------|
| SYMBOL | DESCRIPTION |
| | GRAVEL AND BOULDERS |
| | HIGH WATER LEVEL |



| PLOT DATE: April 16, 2024 | | | | |
|---------------------------|----------------------|------------|-------|--------|
| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
| A | ISSUED FOR TENDER | 2024/04/16 | EZ | AR |
| | | | | |
| | | | | |
| | | | | |



ENVIRONMENTAL PLANTING 4

CEDAR DRIVE UPGRADES - 2024 CONSTRUCTION WORKS



#201, 3998 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604) 293-2696 F: (604) 293-2695

ISSUED FOR TENDER

| SCALE | AS NOTED | CREATION DATE | DEC - 2023 | DWG. NO. |
|------------|----------|---------------|------------|----------|
| DRAWN BY | GA | DESIGN BY | CJB | 09 |
| CHECKED BY | CJB | APPROVED BY | CJB | 15 |
| | | | | REV. A |

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.

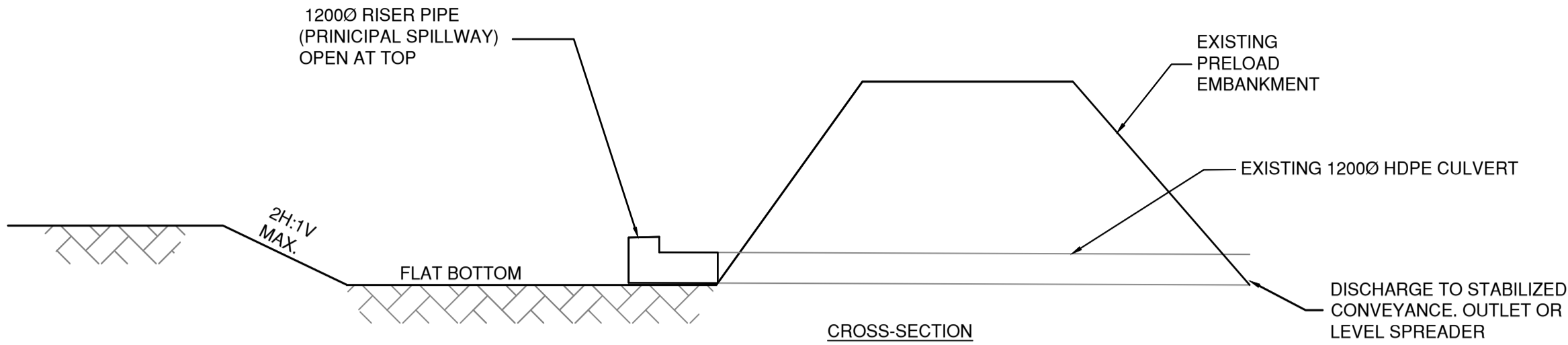
16. PRIOR TO WORKS A PRE-CONSTRUCTION SITE MEETING WILL BE ARRANGED AMONGST THE MANAGING ENGINEER, CONTRACTOR'S SITE SUPERVISOR AND ESCS.

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.

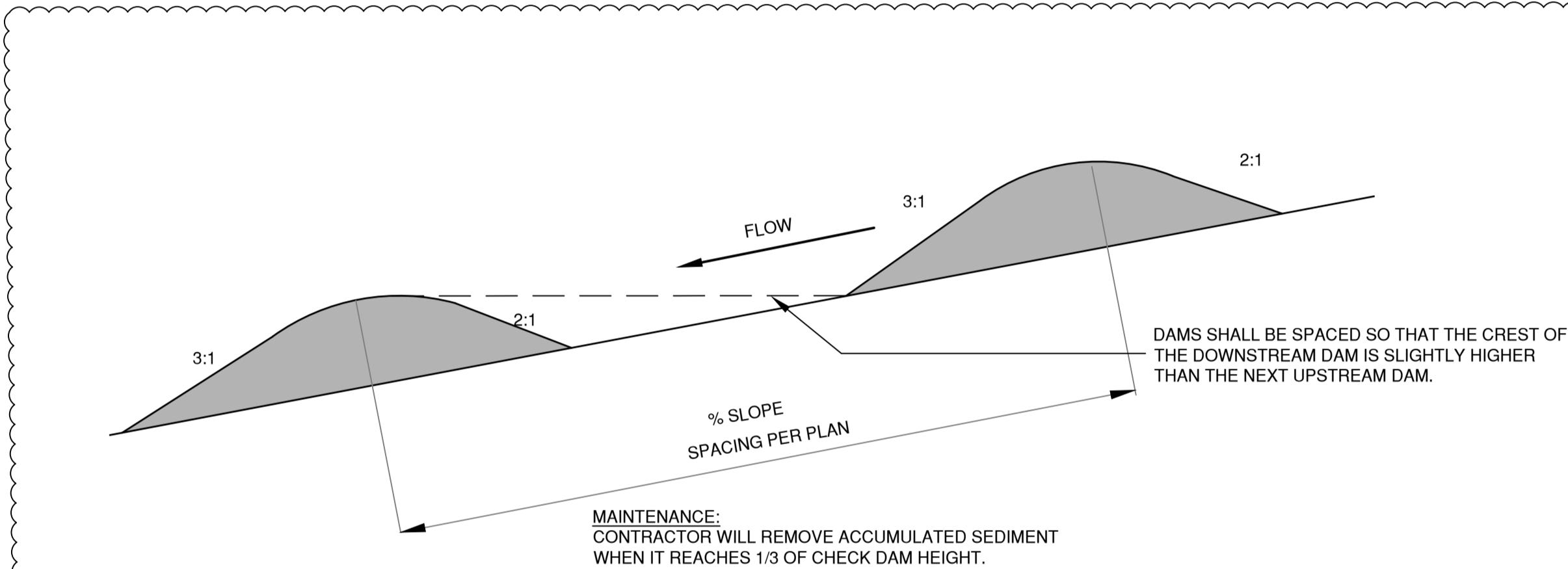
19. ANY SEDIMENT TRANSPORTED ONTO CITY STREETS IS TO BE IMMEDIATELY SWEEPED.

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.



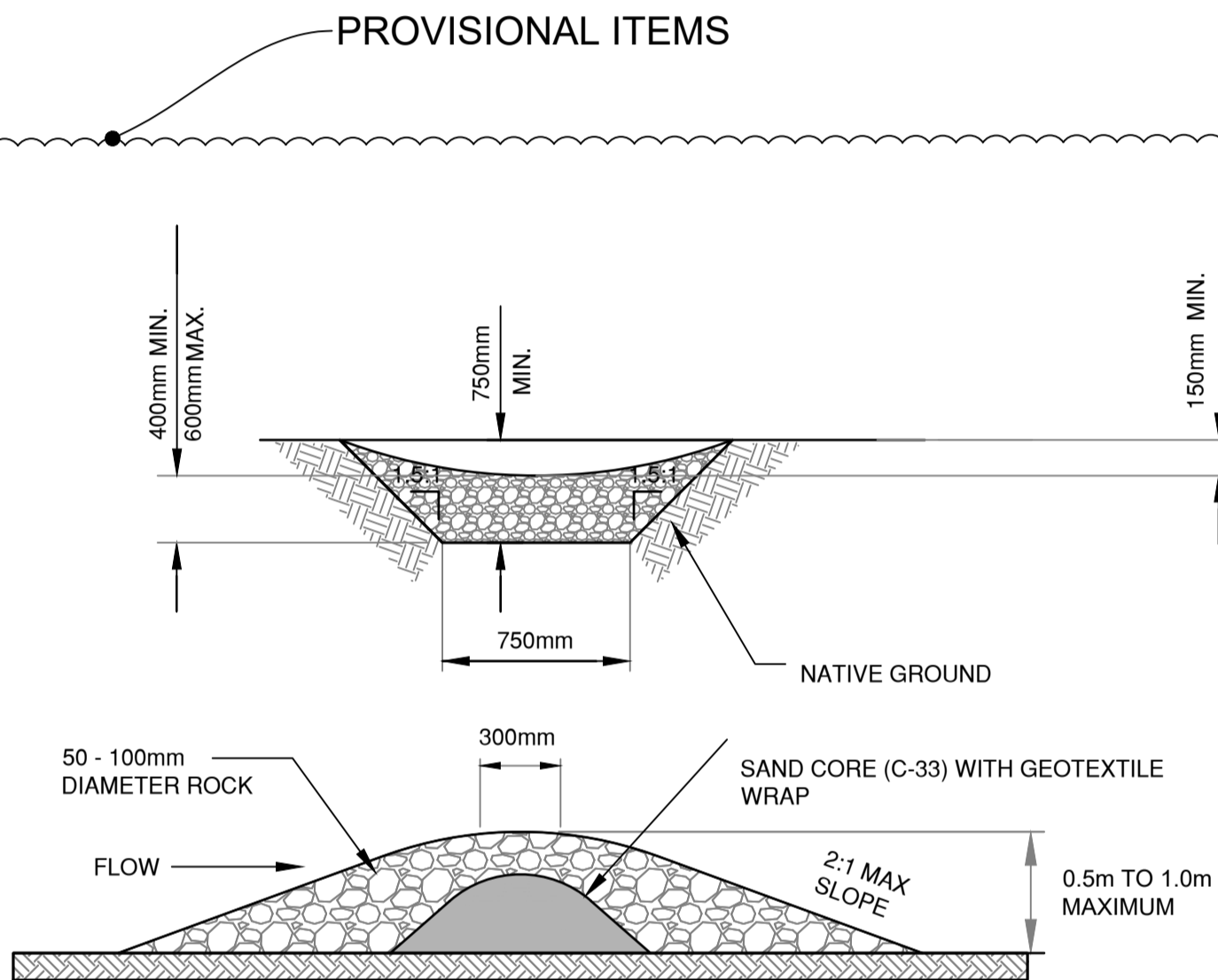
SEDIMENT TRAP WITH RISER PIPE

SCALE: NTS



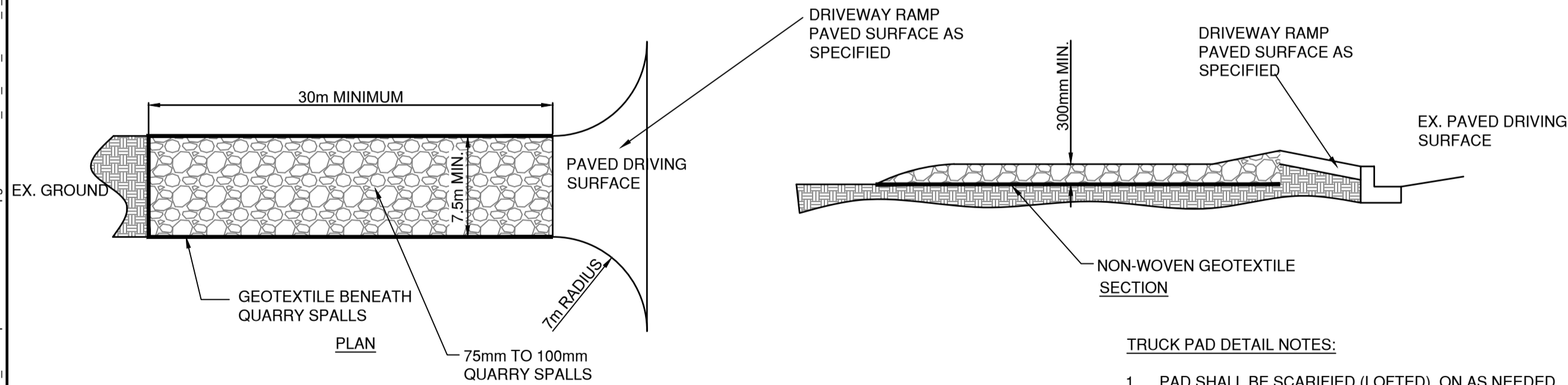
SEDIMENT CONTROL CHECK DAM - ELEVATION

SCALE: NTS



SEDIMENT CONTROL CHECK DAM - SECTION

SCALE: NTS

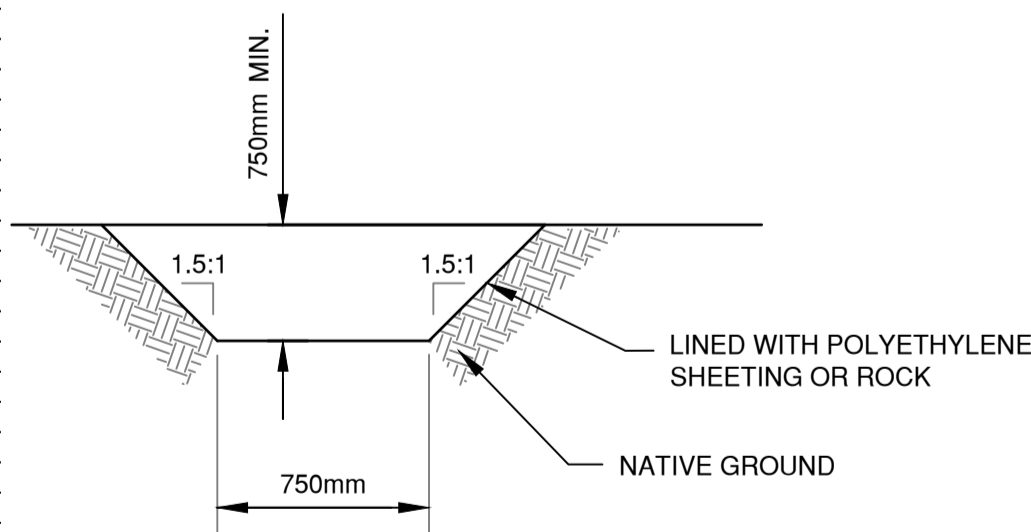


TEMPORARY TRUCK ACCESS PAD DETAIL

SCALE: NTS

TRUCK PAD DETAIL NOTES:

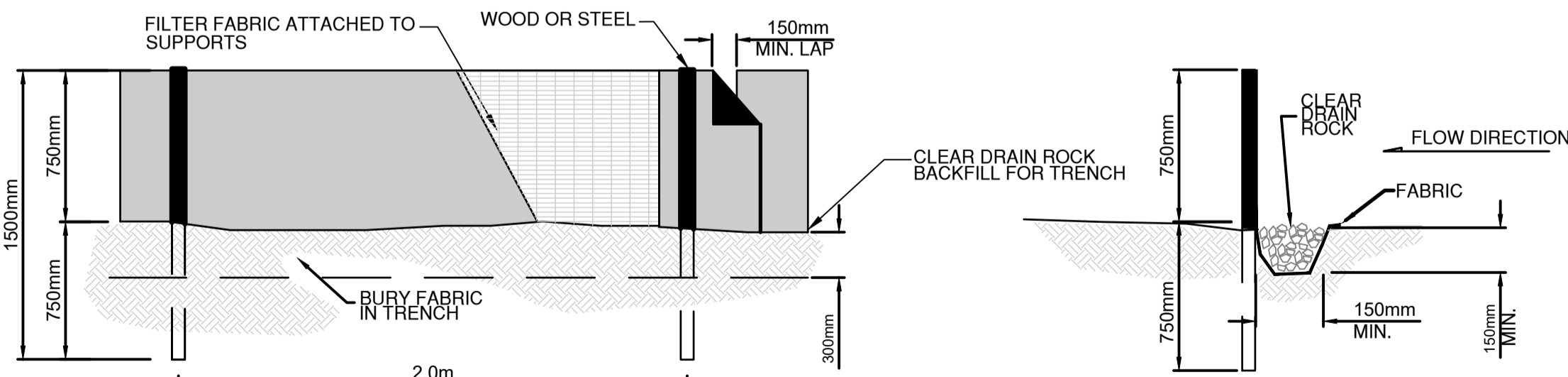
- PAD SHALL BE SCARIFIED (LOFTED), ON AS NEEDED BASIS, TO RELEASE FOILING SEDIMENT AND REPLACED WHEN SOIL IS EVIDENT ON THE SURFACE OF THE PAD OR AS DIRECTED BY THE ENGINEER/ESC SUPERVISOR.
- ADDITIONAL CLEAN MATERIAL MUST BE ADDED IF SOIL CONDITIONS DICTATE OR PER THE DIRECTION OF THE ENGINEER/ESC SUPERVISOR.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



TYP. CONSTRUCTION

SEDIMENT SWALE SECTION

SCALE: NTS



SILT FENCE DETAIL

SCALE: NTS



ISSUED FOR TENDER

DESIGN NO.

33527

PLOT DATE: April 16, 2024

| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
|---------|----------------------|------------|-------|--------|
| A | ISSUED FOR TENDER | 2024/04/16 | GA | CJB |
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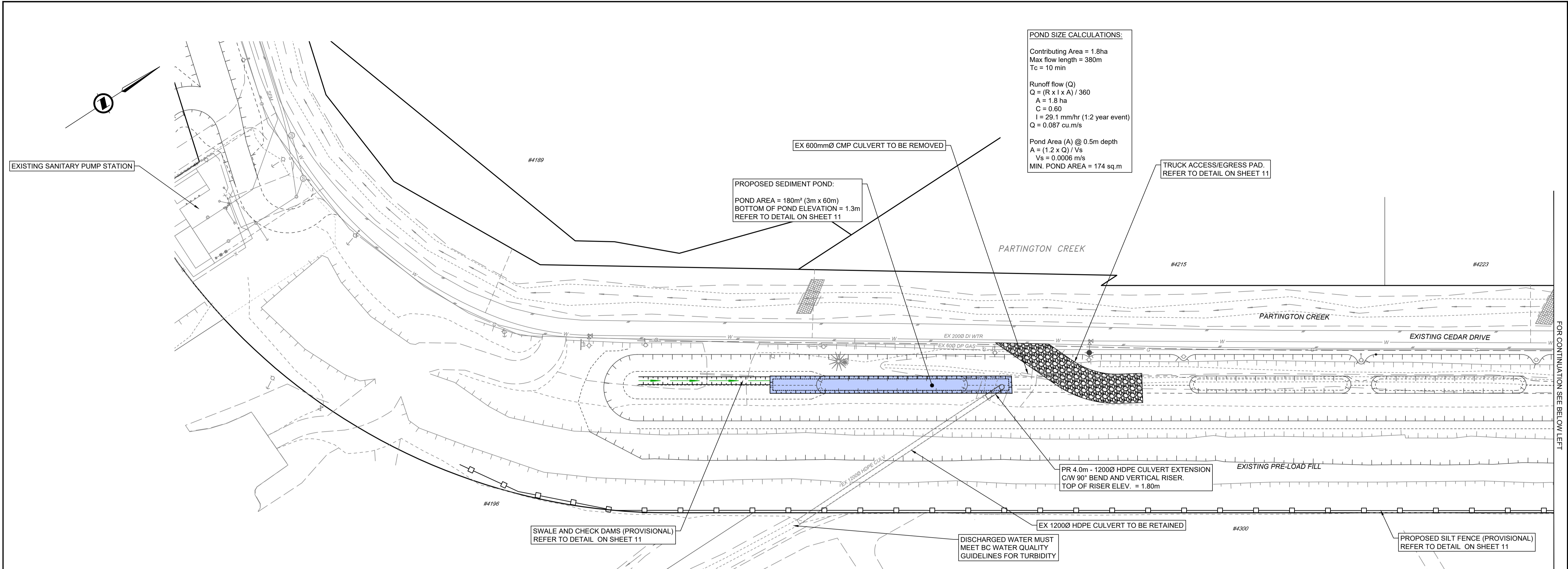
Coquitlam

ESC NOTES AND DETAILS
CEDAR DRIVE UPGRADES - 2024 CONSTRUCTION WORKS

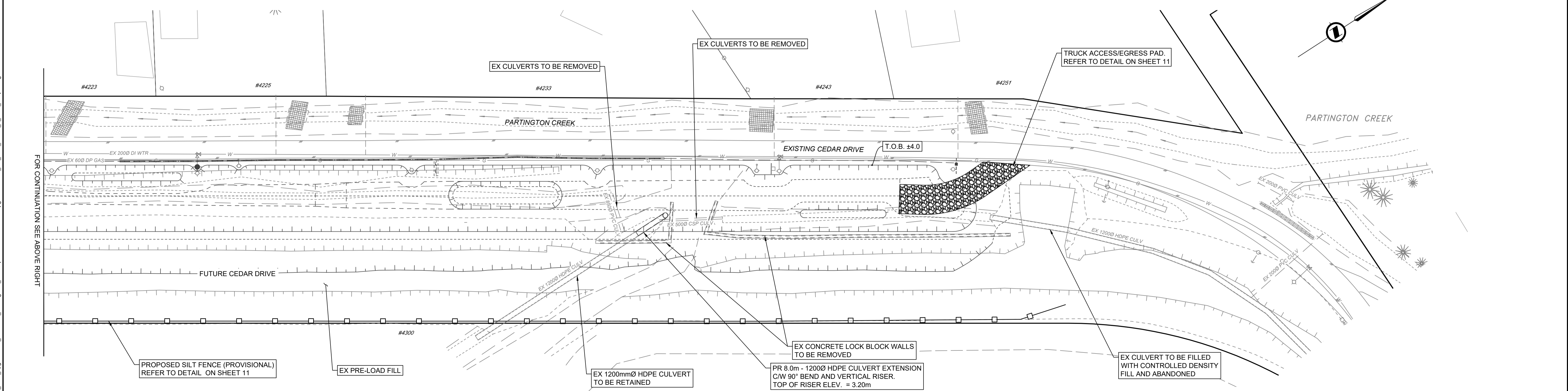


#503, 4190 Lougheed Hwy, Burnaby, B.C. V5C 6A8
T: (604)629-2099 F: (604)629-2099

| SCALE | AS NOTED | CREATION DATE | DEC - 2023 | DWG. NO. |
|------------|----------|---------------|------------|----------|
| DRAWN BY | GA | DESIGN BY | CJB | 11 |
| CHECKED BY | CJB | APPROVED BY | CJB | 15 |
| | | | | REV. A |



PARTINGTON CREEK CONVEYANCE IMPROVEMENT AND OFF-CHANNEL ENHANCEMENT
ESC - PLAN VIEW
SCALE 1:500



PARTINGTON CREEK CONVEYANCE IMPROVEMENT AND OFF-CHANNEL ENHANCEMENT
ESC - PLAN VIEW
SCALE 1:500



ISSUED FOR TENDER

DESIGN NO.

| | | | | |
|---------------------------|----------------------|------------|-------|--------|
| PLOT DATE: April 16, 2024 | | | | |
| REV NO. | REVISION DESCRIPTION | DATE | DRAWN | APPR'D |
| A | ISSUED FOR TENDER | 2024/04/16 | GA | CJB |
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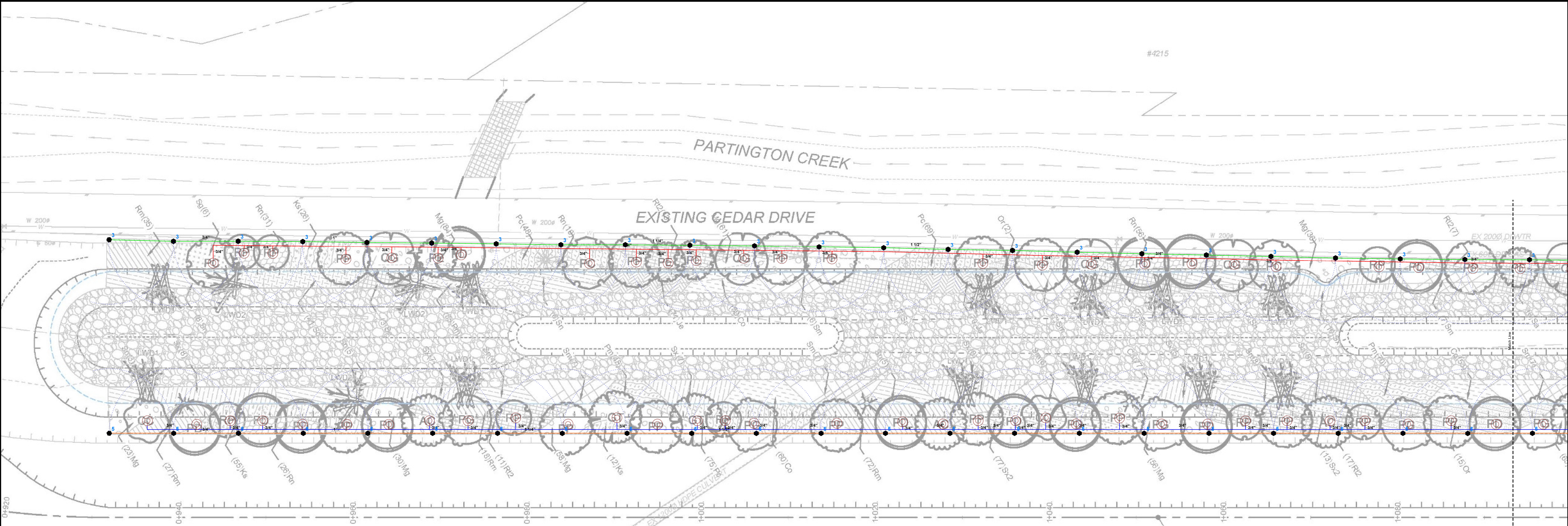


ESC PLAN
CEDAR DRIVE UPGRADES - 2024 CONSTRUCTION WORKS



| | | | | |
|------------|----------|---------------|------------|----------|
| SCALE | AS NOTED | CREATION DATE | DEC - 2023 | DWG. NO. |
| DRAWN BY | GA | DESIGN BY | CJB | 12 |
| CHECKED BY | CJB | APPROVED BY | CJB | 15 |
| | | | | REV. A |

33527



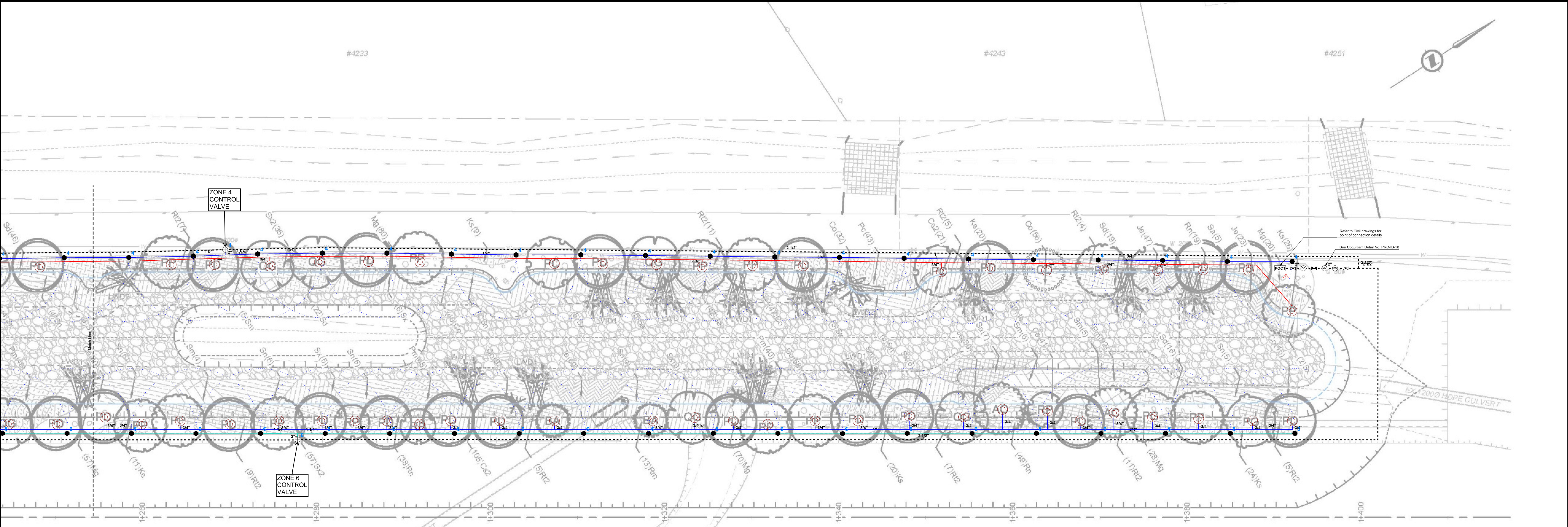
Irrigation

| Symbol | Description | Pressure | Flow | Radius |
|------------------------|---|----------|----------|--------|
| Sprinklers | | | | |
| | Rain Bird 5000 Series 1.5 - 5000-S-PC | 45 psi | 1.54 gpm | 35 ft |
| | Rain Bird 5000 Series 1.5 LA - 5004-PC | 45 psi | 1.58 gpm | 31 ft |
| Meters/Pumps | | | | |
| | 2" Point of Connection - water supply | | | |
| Backflow Assemblies | | | | |
| | Watts 007M1QT - 2" | | | |
| Control Valves | | | | |
| | Rain Bird 150-PEB | | | |
| | Rain Bird 200-PEB | | | |
| | Rain Bird XCZ-100-PRB-COM | | | |
| | Rain Bird XCZ-150-PRB-COM | | | |
| Irrigation Accessories | | | | |
| | R&W 1" isolation valve | | | |
| | R&W 2" isolation valve | | | |
| | Toro SB-12-PS1-U | | | |
| | Toro TFS-200 Flow Sensor | | | |
| Lateral Line Pipe | | | | |
| | Class 200 3/4" - colour coded by zone | | | |
| | Class 200 1" - colour coded by zone | | | |
| | Class 200 1 1/4" - colour coded by zone | | | |
| | Class 200 1 1/2" - colour coded by zone | | | |
| | Class 200 2" - colour coded by zone | | | |
| | Class 200 2 1/2" - colour coded by zone | | | |
| Mainline Pipe | | | | |
| | Class 200 2" | | | |
| | Class 200 2 1/2" | | | |
| Drip Tubing | | | | |
| | Rain Bird XFS-09-12 | | | |

Install according to City of Coquitlam Irrigation Specifications & Details

| REV NO: | DESCRIPTION | DATE | DRAWN | APPR'D |
|---------|--------------------|------------|-------|--------|
| A | PRELIMINARY DESIGN | 2024/02/26 | K EII | CJB |
| B | DETAILED DESIGN | 2024/04/01 | K EII | CJB |
| C | ISSUED FOR TENDER | 2024/04/10 | K EII | CJB |
| | | | | |

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|-------------|---------|----------------|--------------|---------------------------------------|
| SCALE: | 1 : 200 | CREATION DATE: | Feb 12, 2024 | DWG NO 14 of 16 REV C |
| DRAWN BY: | K EII | | | |
| CHECKED BY: | K EII | | | |
| DESIGN NO.: | 33527 | | | |



Irrigation

| Symbol | Description | Pressure | Flow | Radius |
|------------------------|---|----------|----------|--------|
| Sprinklers | | | | |
| | Rain Bird 5000 Series 1.5 - 5000-S-PC | 45 psi | 1.54 gpm | 35 ft |
| | Rain Bird 5000 Series 1.5 LA - 5004-PC | 45 psi | 1.58 gpm | 31 ft |
| Meters/Pumps | | | | |
| | 2" Point of Connection - water supply | | | |
| Backflow Assemblies | | | | |
| | Watts 007M1QT - 2" | | | |
| Control Valves | | | | |
| | Rain Bird 150-PEB | | | |
| | Rain Bird 200-PEB | | | |
| | Rain Bird XCZ-100-PRB-COM | | | |
| | Rain Bird XCZ-150-PRB-COM | | | |
| Irrigation Accessories | | | | |
| | R&W 1" isolation valve | | | |
| | R&W 2" isolation valve | | | |
| | Toro SB-12-PS1-U | | | |
| | Toro TFS-200 Flow Sensor | | | |
| Lateral Line Pipe | | | | |
| | Class 200 3/4" - colour coded by zone | | | |
| | Class 200 1" - colour coded by zone | | | |
| | Class 200 1 1/4" - colour coded by zone | | | |
| | Class 200 1 1/2" - colour coded by zone | | | |
| | Class 200 2" - colour coded by zone | | | |
| | Class 200 2 1/2" - colour coded by zone | | | |
| Mainline Pipe | | | | |
| | Class 200 2" | | | |
| | Class 200 2 1/2" | | | |
| Drip Tubing | | | | |
| | Rain Bird XFS-09-12 | | | |

Install according to City of Coquitlam Irrigation Specifications & Details

| REV NO: | DESCRIPTION | DATE | DRAWN | APPR'D |
|---------|--------------------|------------|-------|--------|
| A | PRELIMINARY DESIGN | 2024/02/26 | K EII | CJB |
| B | DETAILED DESIGN | 2024/04/01 | K EII | CJB |
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| | | | | |

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|-------------|---------|----------------|--------------|--------------------------|
| SCALE: | 1 : 200 | CREATION DATE: | Feb 12, 2024 | DWG NO 16 of 16 |
| DRAWN BY: | K EII | | | |
| CHECKED BY: | K EII | | | |
| DESIGN NO.: | 33527 | | | REV C |