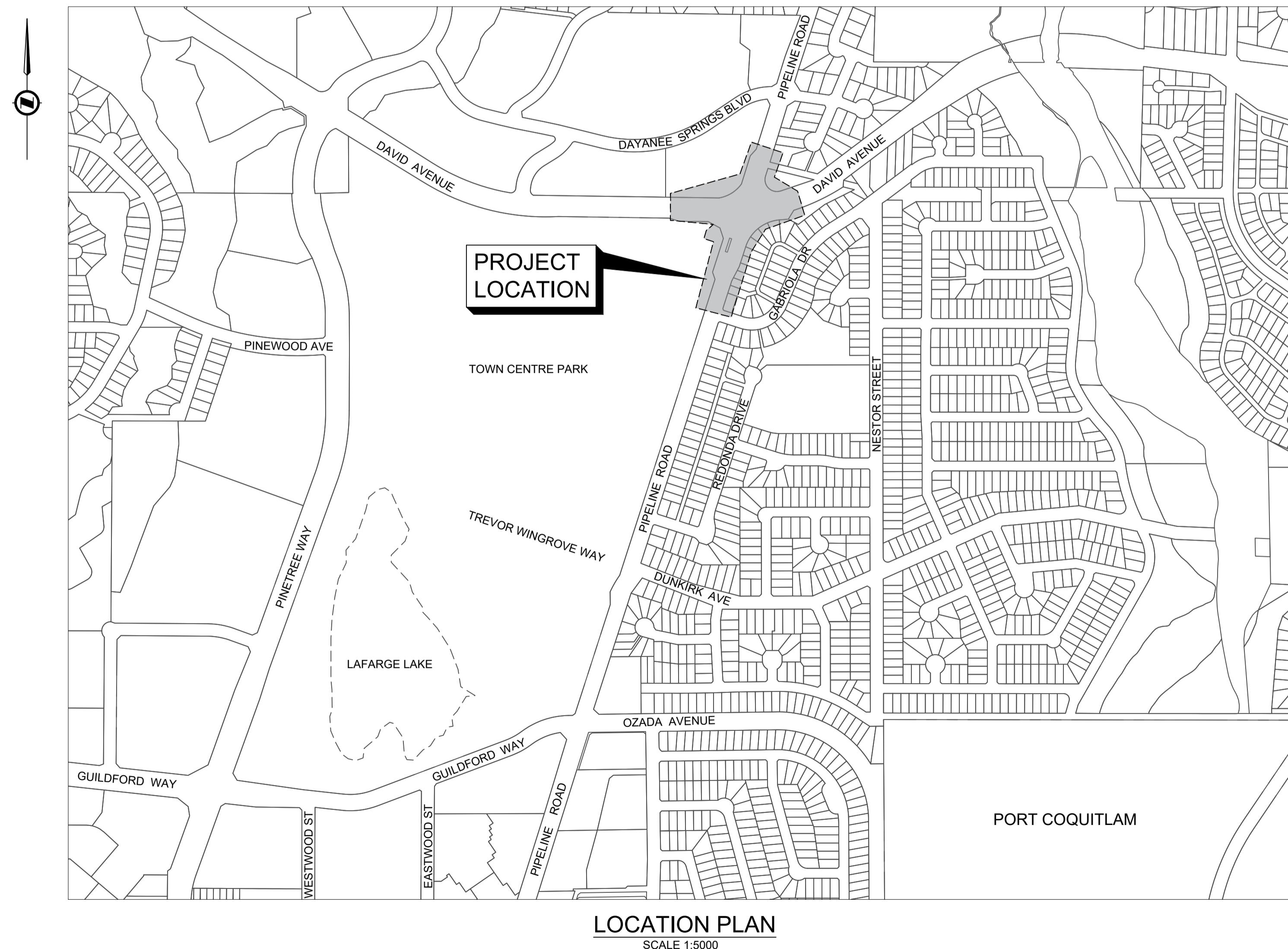




PIPELINE ROAD IMPROVEMENTS PHASE 2 ISSUED FOR TENDER PROJECT #74770



DRAWING SCHEDULE			
CATEGORY	DWG NO.	SHEET TITLE	REV. NO.
GENERAL	00	COVER	
	01	NOTES	A
	02	TYPICAL SECTION	A
ROADWORKS	03	STA 10+630 TO STA 11+110	A
	04	Pipeline Road	A
	05	DAVID AVENUE	A
SIGNAGE & PAVE. MARKINGS	06	INTERSECTION CURB GRADING	A
	07	STA 10+780 TO STA 11+160	A
	08	STA 10+900 TO STA 11+130	A
LANDSCAPING	09	PLANTING PLAN	A
	10	LANDSCAPE DETAILS 1	A
	11	LANDSCAPE DETAILS 2	A
CROSS SECTIONS	12	STA 10+870 TO STA 11+020	A
	13	STA 11+030 TO STA 11+110	A
IRRIGATION	14	STA 10+850 TO STA 10+11+020	A
	15	IRRIGATION DETAILS	A

ELECTRICAL	ELECTRICAL PLANS AND DETAILS	5 SHEETS
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1. SCOPE AND EXPOSE EX. UTILITIES/SERVICES, AND RECORD LOCATION, SIZE & INVERT ELEVATIONS AT PROPs, OR POTENTIAL CROSSINGS PRIOR TO CONSTRUCTION. THE AS-BUILT UNDERGROUND INFORMATION SHOWN ON THIS DRAWING IS DERIVED FROM COMBINATION OF SURVEY AND RECORD DRAWINGS AND REQUIRE CONFIRMATION OF LOCATION PRIOR TO CONSTRUCTION.	2. OIL AND GAS ACTIVITIES ACT (SEC. 76) REQUIRES WRITTEN PERMISSION MUST BE OBTAINED PRIOR TO ACTIVITY WITHIN THIRTY (30) METRES OF AN INTERMEDIATE PRESSURE PIPELINE OR TRANSMISSION PRESSURE PIPELINE.	3. CONTRACTOR TO ENSURE MINIMUM COVER OF 1.0m IS MAINTAINED OVER ALL METRO VANCOUVER WATERMAINS. NOTIFY PROJECT ENGINEER IF PROPOSED DESIGN GRADES REDUCE COVER BELOW THE MINIMUM.	4. ALL PROXIMAL WORK WITHIN 2.0m OF EXISTING METRO VANCOUVER WATERMAINS MUST BE COMPLETED PRIOR TO APRIL 15, 2025. A REPRESENTATIVE MUST BUT ON SITE DURING ALL MV PROXIMAL WORK.	5. THE EXACT LOCATION OF THE EXISTING METRO VANCOUVER WATERMAINS, COQ2 (1200mm) AND COQ3 (1800mm) IS NOT CONFIRMED. CONTRACTOR TO PRE-LOCATE AND CONFIRM LOCATION OF THE COQ2 & COQ3 BY HYDROVAC AND REPORT FINDINGS TO ENGINEER MINIMUM 72 HOURS PRIOR TO CONSTRUCTION.
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GENERAL NOTES:

- ELEVATIONS ARE RELATIVE TO CVD28GVRD. HORIZONTAL COORDINATES ARE IN LOCAL PROJECT GROUND COORDINATES. REFER TO SURVEY CONTROL TABLE ON THIS SHEET PROVIDE.
- 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.
- 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.
- 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 CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR IS TO NOTIFY THE CITY OF COQUITLAM 48 HOURS IN ADVANCE OF ANY CONSTRUCTION OR UTILITY RELOCATION/CONFLICTS.
- REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR A MIN 72 HOURS PRIOR TO CONSTRUCTION.
- 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.
- SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL EXISTING TREES TO BE RETAINED SHALL BE PROTECTED WITH TREE PROTECTION FENCING IN ACCORDANCE WITH CITY OF COQUITLAM STANDARD DETAIL COQ-R26.

CONCRETE NOTES:

- ALL WHEELCHAIR LETDOWNS ARE TO BE BROOM FINISH.

TRAFFIC MANAGEMENT, NOTIFICATION AND APPROVALS NOTES:

- 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.
- 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.
- 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.
- A TRAFFIC AND PEDESTRIAN SAFETY CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 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.
- CONTRACTOR TO OBTAIN APPROVED LANE CLOSURE REQUEST FORM FOR ALL WORKS. APPROVED REQUESTS ARE CIRCULATED TO ALL EMERGENCY SERVICES.
- CONTRACTOR TO SUBMIT A TRAFFIC MANAGEMENT PLAN WITH LANE CLOSURE REQUEST FOR ALL MAJOR ROADS AND ANY LOCAL ROADS WHICH REQUIRE ANY DETOURS.
- ALL TRAFFIC CONTROL TO CONFORM TO THE LATEST EDITION OF THE BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
- APPROVAL OF NOISE VARIANCE FOR ALL WORK OUTSIDE OF NORMAL APPROVED WORK HOURS REQUIRED BY THE CITY.
- 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.
- THE CONTRACTOR WILL 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.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE TRAFFIC MANAGEMENT DETAILED SPECIFICATIONS IN THE CONTRACT DOCUMENTS.

STORM AND SANITARY SEWER NOTES:

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

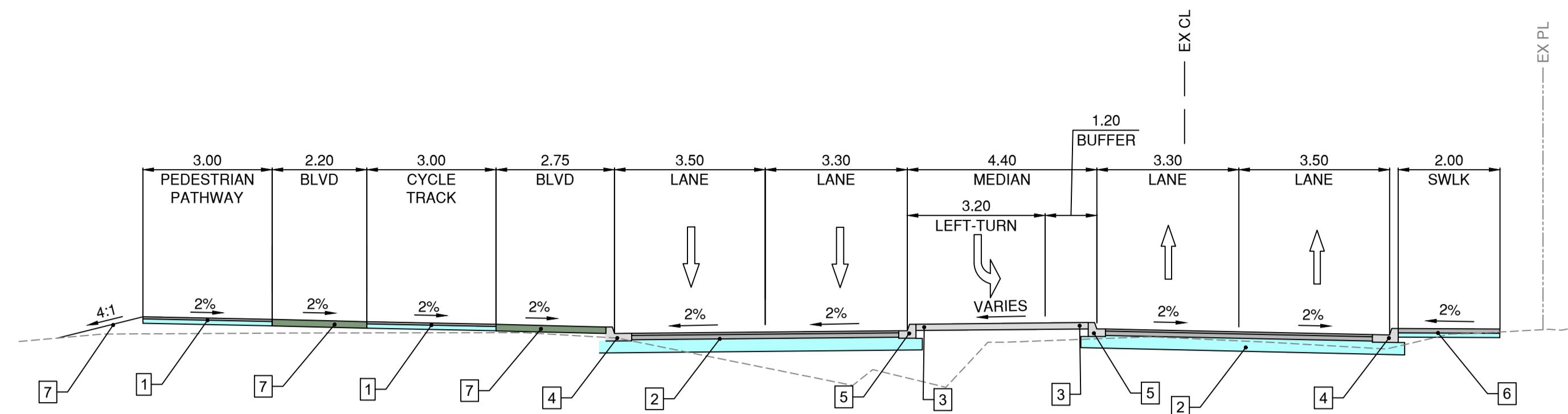
FOR SERVICE CONNECTIONS, WHEREVER POSSIBLE, THE ABOVE CONSTRUCTION PRACTICES SHOULD ALSO BE APPLIED.

- FIGURED DIMENSION SHALL GOVERN OVER SCALED DIMENSIONS.
- REFER TO COQ STD. DWG. COQ-G4 FOR UTILITY TRENCH DETAIL.
- STORM SEWER MATERIALS ARE TO CONFORM TO THE MMCD SPECIFICATIONS.
- ALL PIPE SIZES INDICATED REFER TO MINIMUM INSIDE DIAMETER DIMENSIONS.
- ALL CATCH BASINS SHALL BE AS PER COQ STD. DWG. COQ-S11A.
- 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.

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
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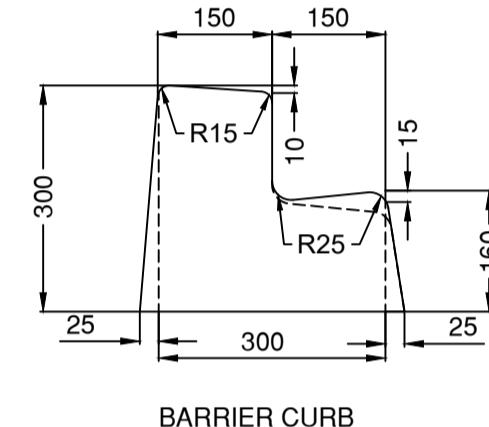


SCALE	AS SHOWN	CREATION DATE	NOV - 2025	DWG. NO.
DRAWN BY	PM	DESIGN BY	CJB	01 OF
CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A

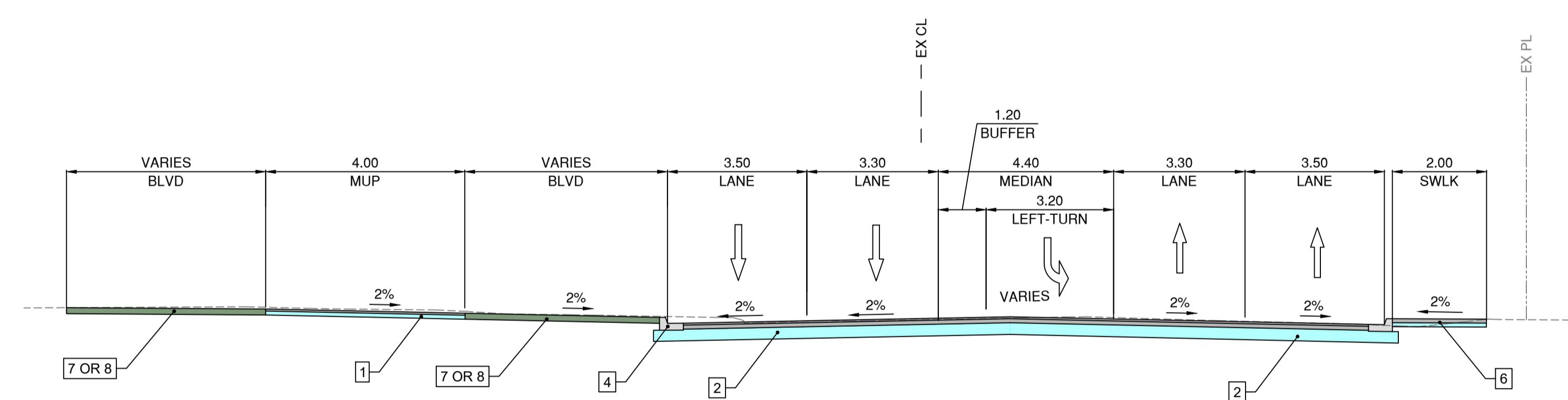


STA 10+890 TO STA 10+950
TYPICAL SECTION

SCALE 1:100



BARRIER CURB



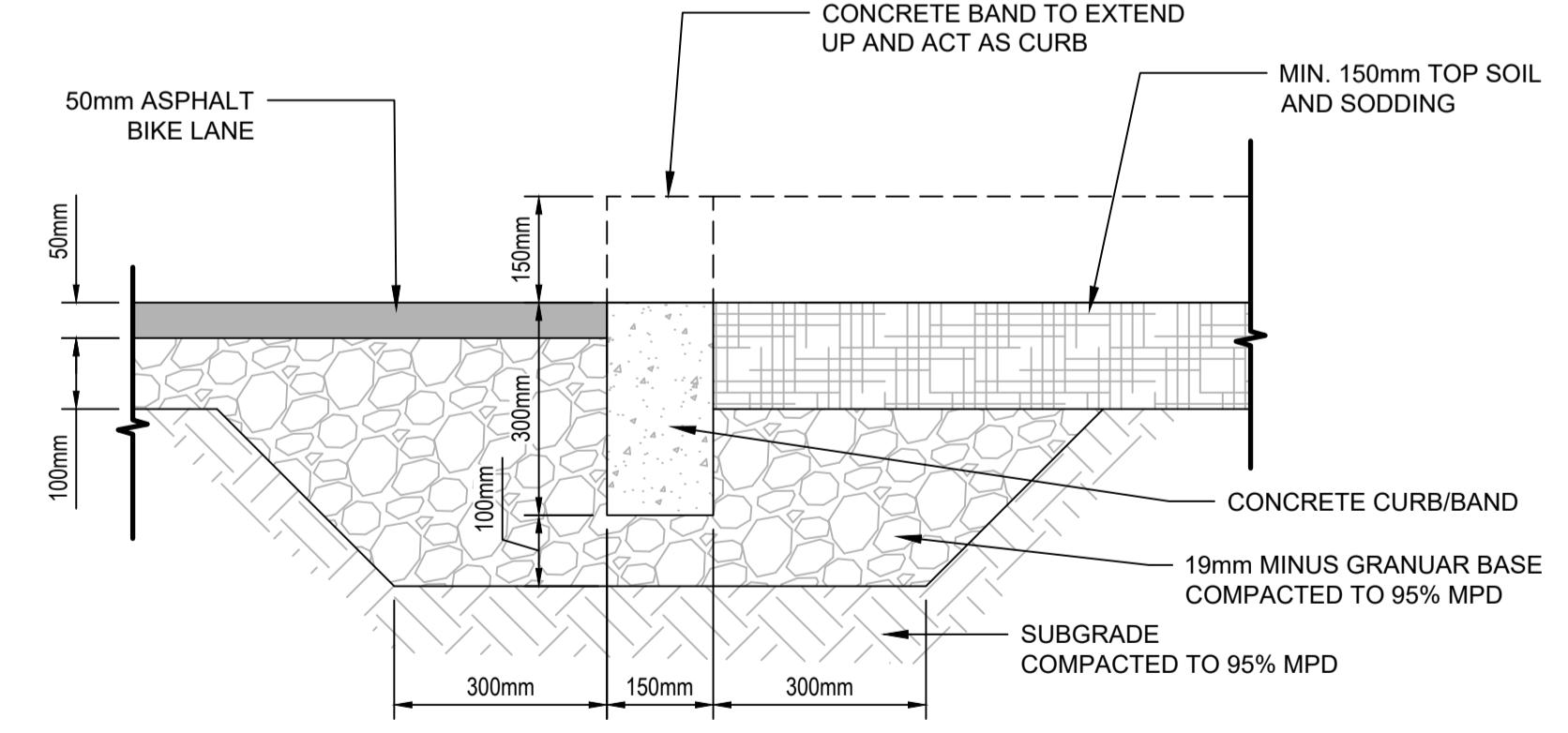
STA 10+950 TO DAVID AVE
TYPICAL SECTION

SCALE 1:100

- [1] ASPHALT PATHWAY
 - REFER TO LANDSCAPE SOILS PLAN FOR STRUCTURAL SOIL DETAILS AND LIMITS
 - 100mm OF 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO >95% MODIFIED PROCTOR DENSITY (OPTIONAL AS DIRECTED BY CA)
 - 50mm OF MMCD UPPER COURSE #2 ASPHALT COMPACTED TO >97% OF 75 BLOW MARSHALL
- [2] ASPHALT ROAD
 - 250mm OF 75mm MINUS CRUSHED GRANULAR SUBBASE, COMPACTED TO >95% MODIFIED PROCTOR DENSITY (OPTIONAL AS DIRECTED BY CA)
 - 100mm OF 25mm MINUS CRUSHED GRANULAR BASE COMPACTED TO >95% MODIFIED PROCTOR DENSITY (OPTIONAL AS DIRECTED BY CA)
 - 65mm OF LOWER COURSE #1 MIXTURE, COMPACTED TO >97% OF 75 BLOW MARSHALL
 - 50mm OF 19mm MOTI CLASS 1, 19mm MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER, COMPACTED TO >97% OF 75 BLOW MARSHALL
- [3] MEDIAN CONCRETE BAND
 - 100mm OF 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO >95% MODIFIED PROCTOR DENSITY
 - 100mm OF CONCRETE (BROOM FINISH)
- [4] NEW CONCRETE MMCD C5 CURB AND GUTTER
 - 100mm OF 25mm MINUS CRUSHED GRANULAR BASE COMPACTED TO >95% MODIFIED PROCTOR DENSITY
- [5] NEW CONCRETE NARROW CURB AND GUTTER
 - 100mm OF 25mm MINUS CRUSHED GRANULAR BASE COMPACTED TO >95% MODIFIED PROCTOR DENSITY
 - CONCRETE CURB PER DETAIL THIS SHEET
- [6] CONCRETE SIDEWALK
 - 100mm OF 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO >95% MODIFIED PROCTOR DENSITY
 - 100mm OF CONCRETE (BROOM FINISH)
- [7] PROPOSED LANDSCAPING
 - REFER TO LANDSCAPE DESIGNS FOR DETAILS
- [8] EXISTING LAWN RESTORATION AS REQUIRED

CONCRETE NARROW CURB AND GUTTER DETAIL

NTS



150mm CONCRETE CURB/BAND DETAIL

SCALE 1:10

IFT- PHASE 2 DESIGN NO.

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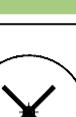
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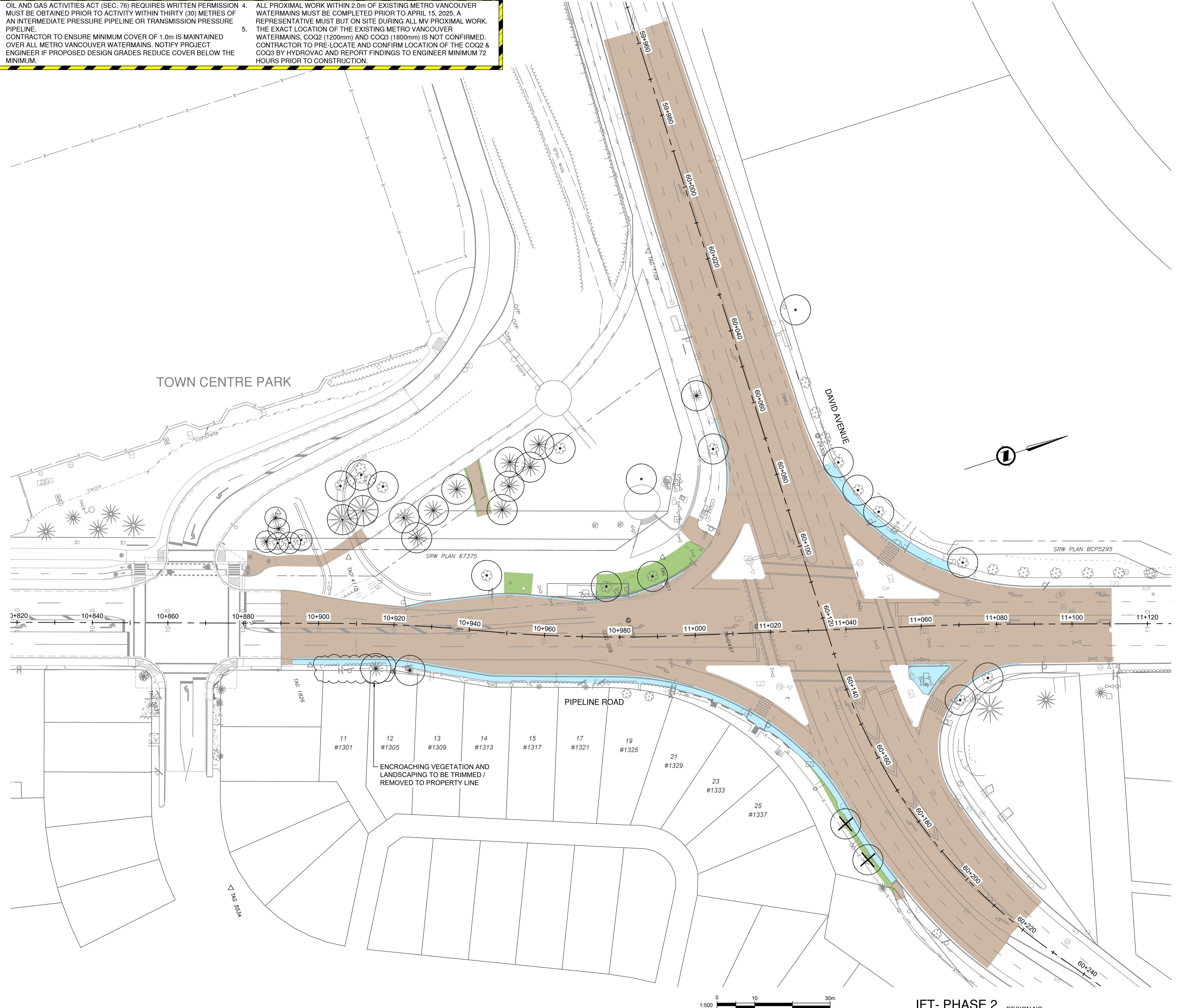
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DRAWN BY	PM	DESIGN BY	CJB	02 OF
CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A

IMPORTANT:

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2. OIL AND GAS ACTIVITIES ACT (SEC. 76) REQUIRES WRITTEN PERMISSION MUST BE OBTAINED PRIOR TO ACTIVITY WITHIN THIRTY (30) METRES OF AN INTERMEDIATE PRESSURE PIPELINE OR TRANSMISSION PRESSURE PIPELINE.
3. CONTRACTOR TO ENSURE MINIMUM COVER OF 1.0m IS MAINTAINED OVER ALL METRO VANCOUVER WATERMAINS. NOTIFY PROJECT ENGINEER IF PROPOSED DESIGN GRADES REDUCE COVER BELOW THE MINIMUM.
4. ALL PROXIMAL WORK WITHIN 2.0m OF EXISTING METRO VANCOUVER WATERMAINS MUST BE COMPLETED PRIOR TO APRIL 15, 2025. A REPRESENTATIVE MUST BE ON SITE DURING ALL MV PROXIMAL WORK. THE EXACT LOCATION OF THE EXISTING METRO VANCOUVER WATERMAINS, COQ2 (1200mm) AND COQ3 (1800mm) IS NOT CONFIRMED. CONTRACTOR TO PRE-LOCATE AND CONFIRM LOCATION OF THE COQ3 BY HYDROVAC AND REPORT FINDINGS TO ENGINEER MINIMUM HOURS PRIOR TO CONSTRUCTION.

LEGEND

	ASPHALT FULL DEPTH REMOVAL
	CONCRETE CURB, SIDEWALK AND MEDIAN REMOVAL
	STRIPPING / TOPSOIL REMOVAL 300mm DEPTH
	EXISTING TREE TO BE REMOVED
	EXISTING TREE TO BE RETAINED



IFT- PHASE 2

32524

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REMOVALS

STA 10+630 TO STA 11+110

PIPELINE ROAD IMPROVEMENTS - PHASE 2

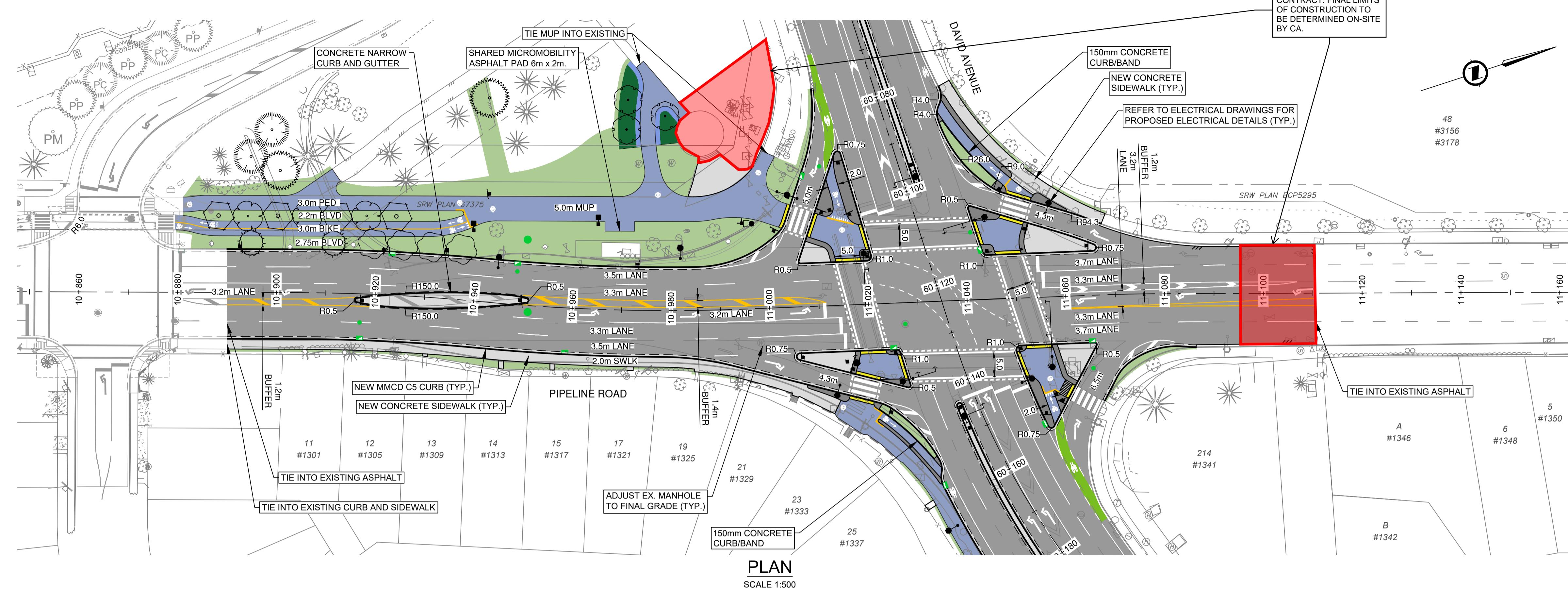


#201, 3999 Henning Drive, Burnaby, B.C. V5C 5L2
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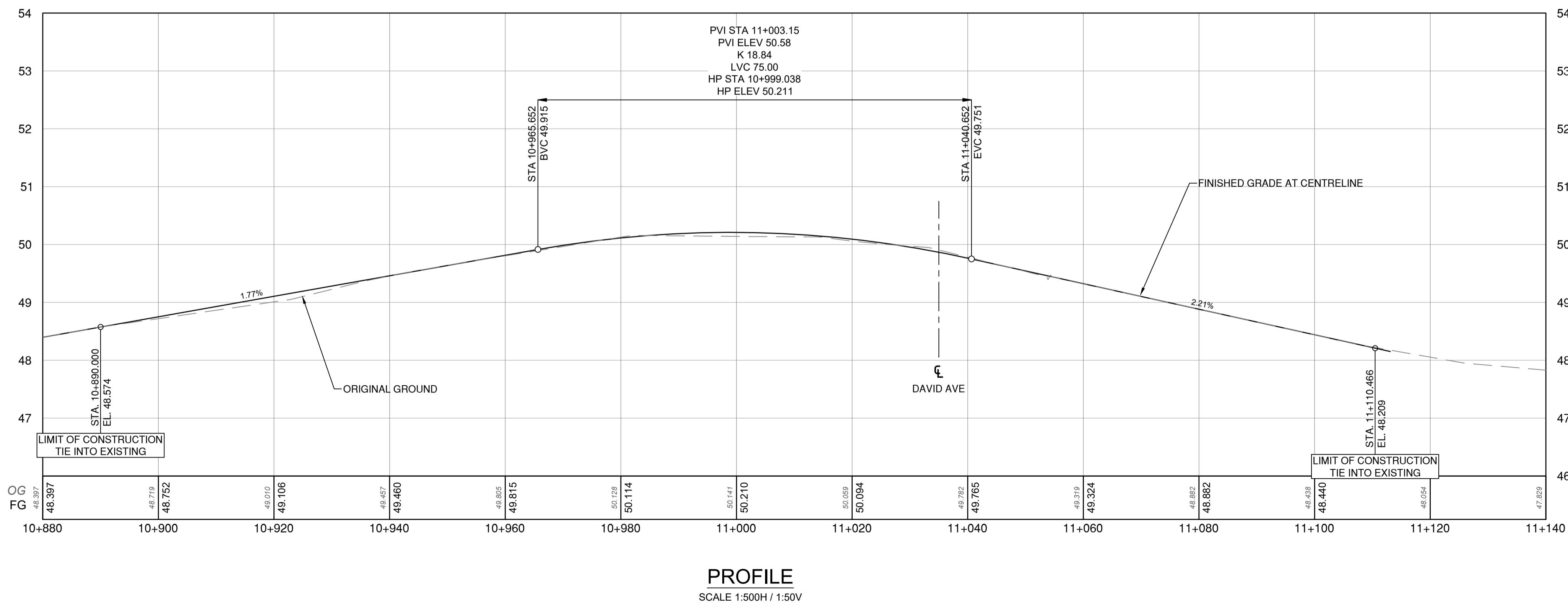
B.C. V5C 6P9 -2698	SCALE	AS SHOWN	CREATION DATE	NOV - 2025	DWG. NO. 03 OF 15
	DRAWN BY	PM	DESIGN BY	CJB	
	CHECKED BY	CJB	APPROVED BY	CJB	
	PLOT DATE	December 9, 2025			REV. A

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SURFACE TREATMENTS	
PATTERN	DESCRIPTION
ASPHALT - FULL DEPTH PAVEMENT	100mm OF LOWER COURSE #1 MIXTURE, COMPACTED TO >97% OF 75 BLOW MARSHALL 50mm OF 19mm MOT CLASS MEDIUM MIX WITH 80-100 GROUP A ASPHALT CEMENT, COMPACTED TO >97% OF 75 BLOW MARSHALL 100mm MIN. - 25mm MINUS CRUSHED GRANULAR BASE COMPACTED TO >95% OF THE MODIFIED PROCTOR DENSITY 250mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR)
ASPHALT - BIKE PATHWAY	100mm OF 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO >95% MODIFIED PROCTOR DENSITY 50mm OF MMCD UPPER COURSE #2 ASPHALT COMPACTED TO >97% OF 75 BLOW MARSHALL
CONCRETE - SIDEWALK / CURB / BANDING	CONCRETE SIDEWALK / INFILL (SEE DETAILS ON DWG. NO. 02) 150mm CONCRETE CURB/BAND (SEE DETAILS ON DWG. NO. 02) NARROW CURB AND GUTTER (SEE DETAILS ON DWG. NO. 02) MMCD C5 CURB AND GUTTER
RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS	
LANDSCAPING	MIN. 150mm TOPSOIL AND SODDING PLANTING AREA - REFER TO LANDSCAPE DRAWINGS FOR PLANTING PLAN

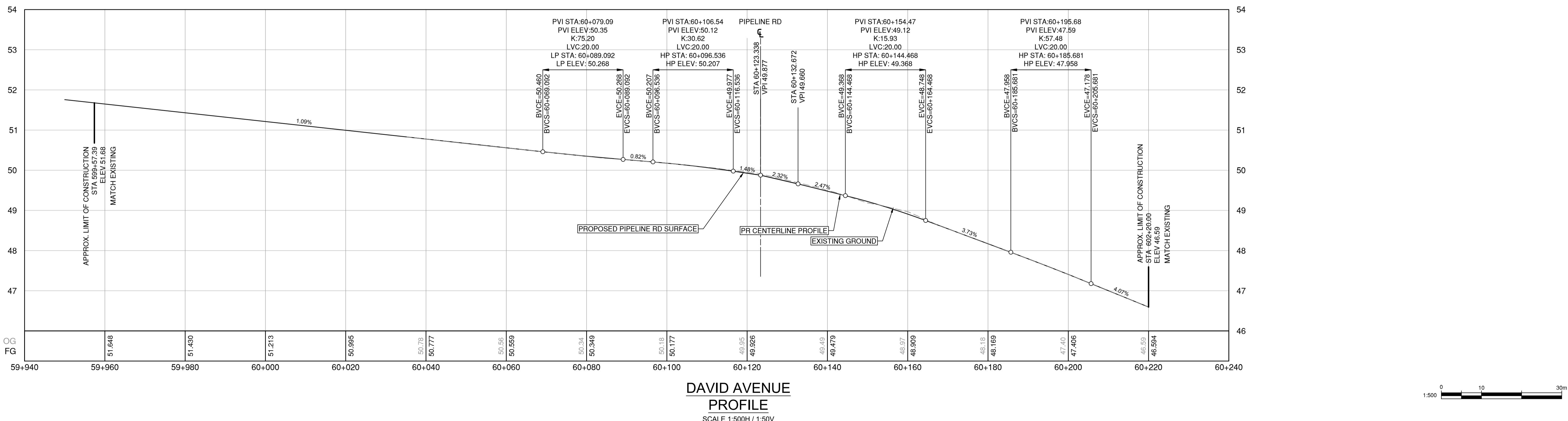
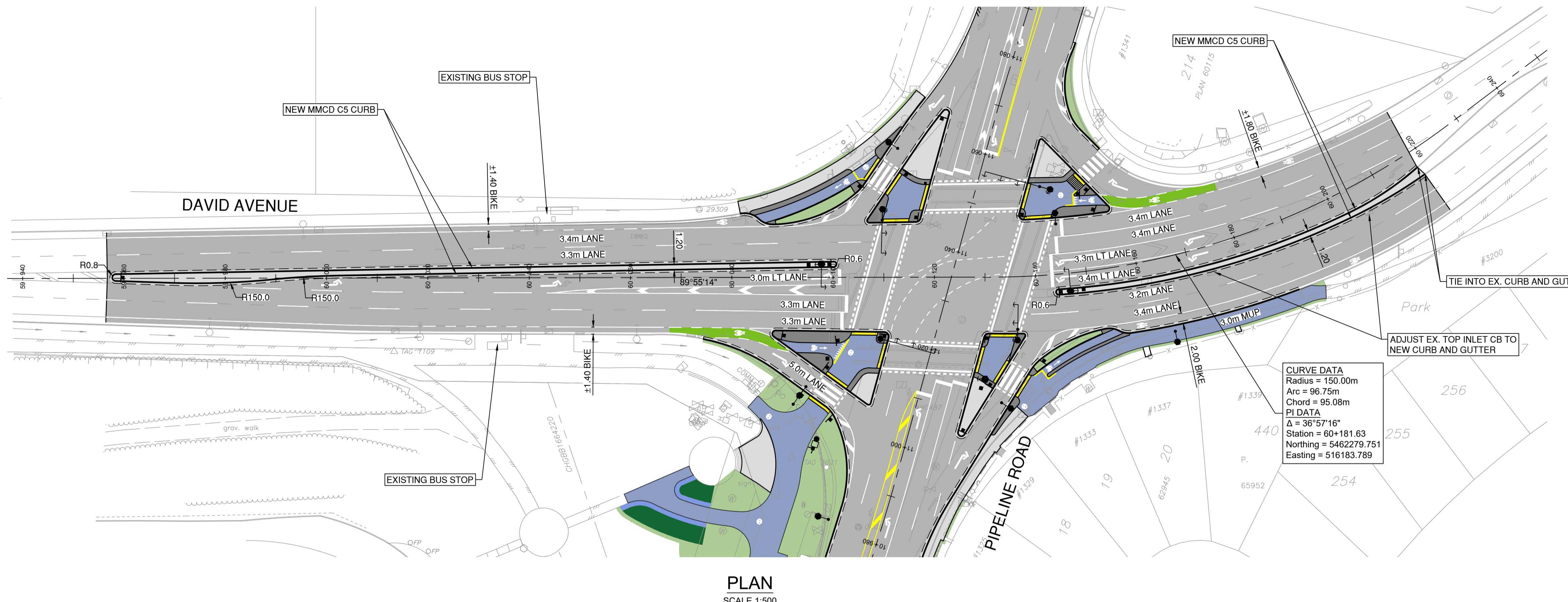


IFT- PHASE 2 DESIGN NO. 32524

REV. NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D	SCALE	AS SHOWN	CREATION DATE	NOV - 2025	DWG. NO.
A	ISSUED FOR TENDER	2025/12/09	GA	CJB	DRAWN BY	PM	DESIGN BY	CJB	04 OF 15
					CHECKED BY	CJB	APPROVED BY	CJB	
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ROAD
WORKS

DAVID AVENUE
PIPELINE ROAD IMPROVEMENTS - PHASE 2

IFT- PHASE 2 DESIGN NO.

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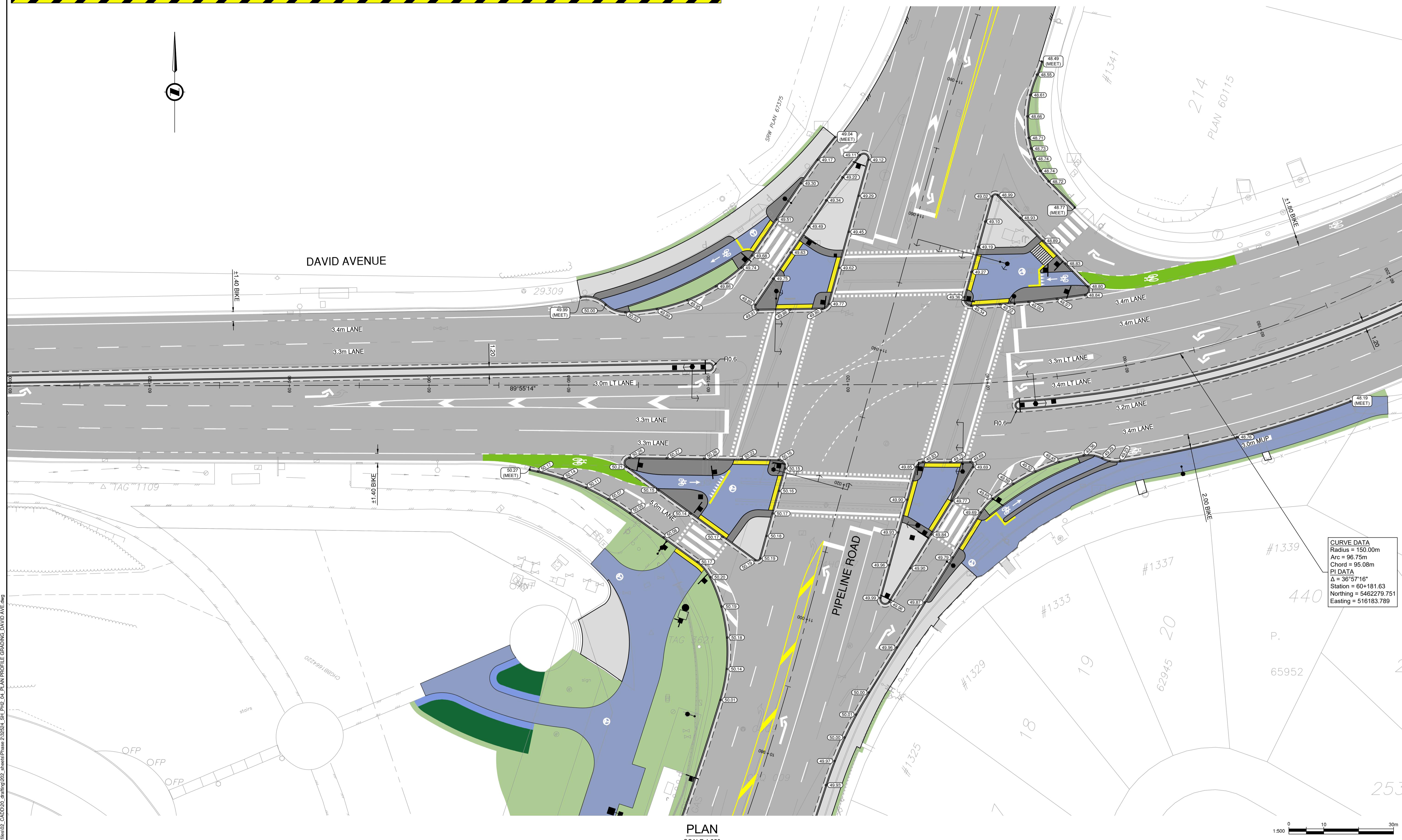


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- ALL PROXIMAL WORK WITHIN 2.0m OF EXISTING METRO VANCOUVER WATERMAINS MUST BE COMPLETED PRIOR TO APRIL 15, 2025. A REPRESENTATIVE MUST BUT ON SITE DURING ALL MV PROXIMAL WORK.
- THE EXACT LOCATION OF THE EXISTING METRO VANCOUVER WATERMAINS, COQ2 (1200mm) AND COQ3 (1800mm) IS NOT CONFIRMED. CONTRACTOR TO PRE-LOCATE AND CONFIRM LOCATION OF THE COQ2 & COQ3 BY HYDROVAC AND REPORT FINDINGS TO ENGINEER MINIMUM 72 HOURS PRIOR TO CONSTRUCTION.



REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	ISSUED FOR TENDER	2025/12/09	GA	CJB



ROAD
WORKS

INTERSECTION CURB GRADING
PIPELINE ROAD IMPROVEMENTS - PHASE 2

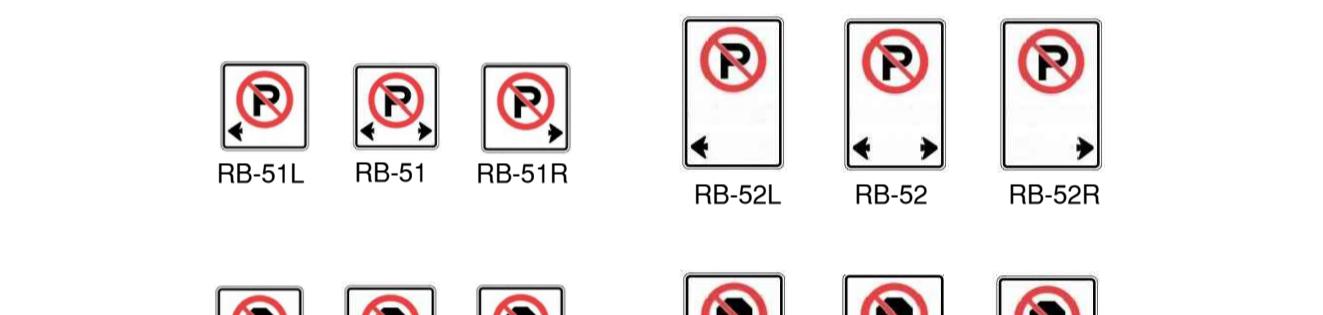
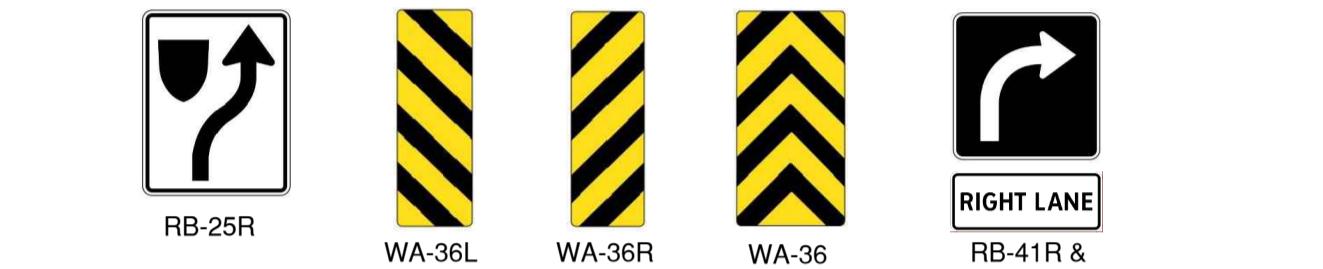
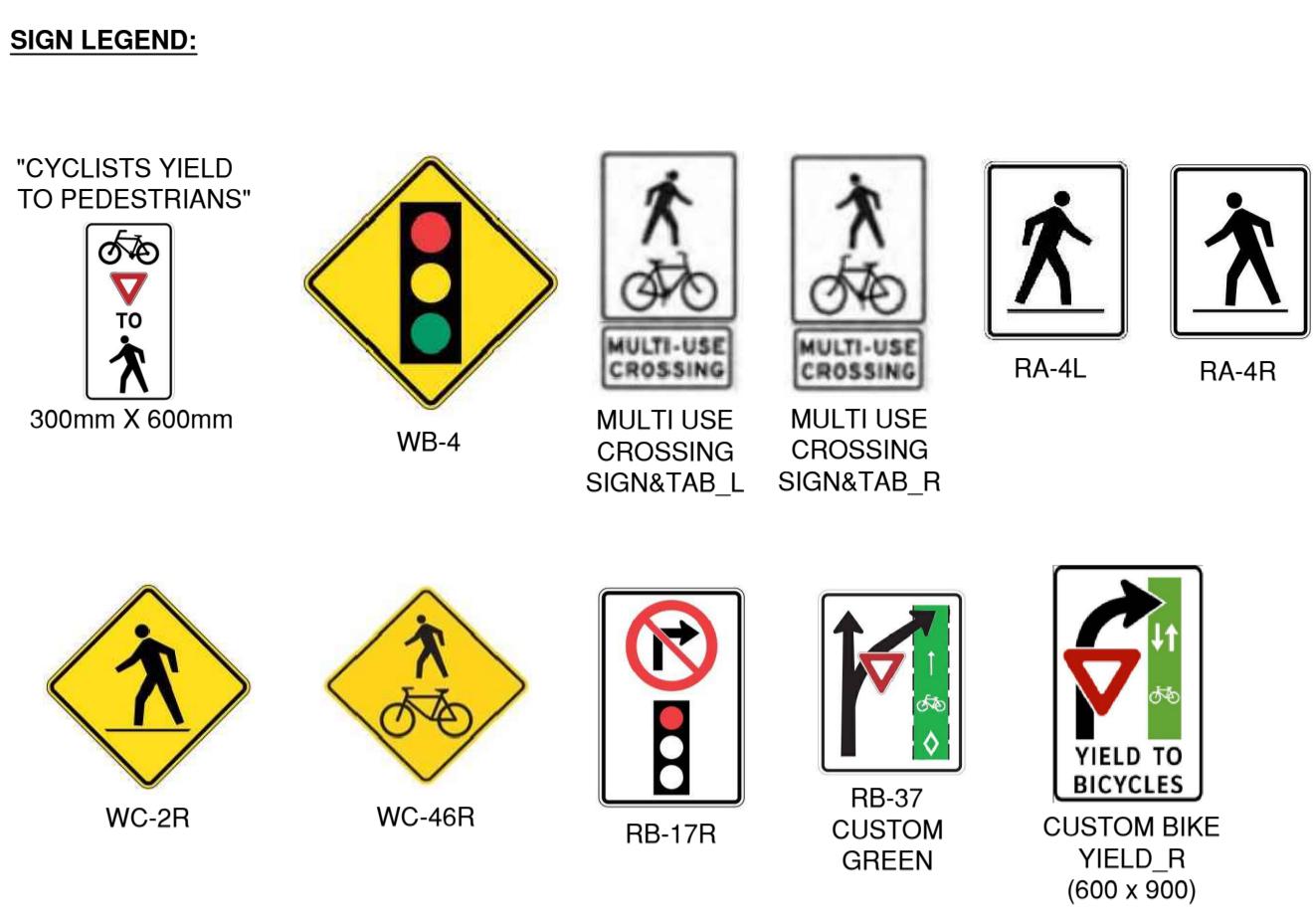
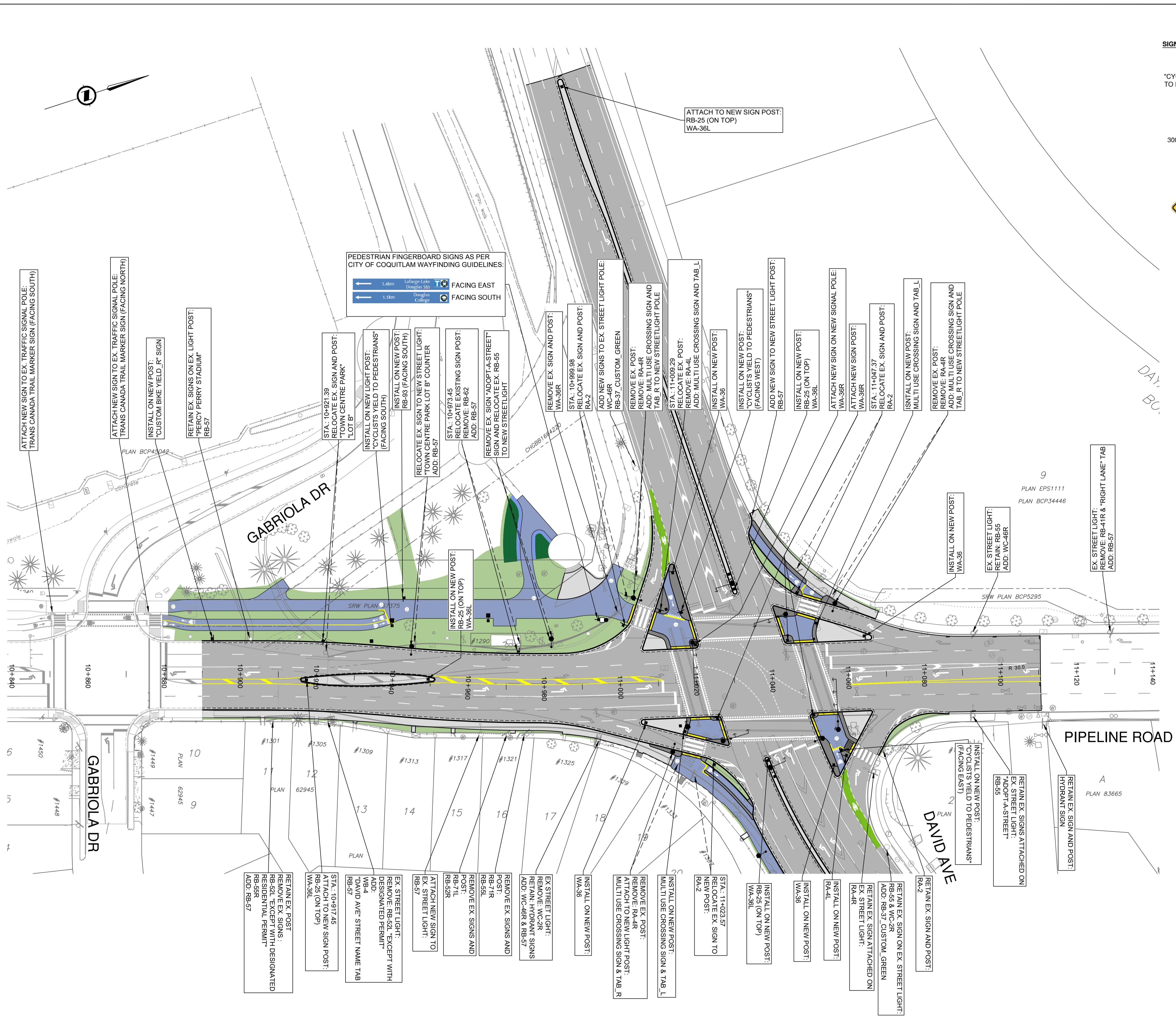
IFT- PHASE 2 DESIGN NO.

32524



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

SCALE	AS SHOWN	CREATION DATE	NOV - 2025	DWG. NO.
DRAWN BY	PM	DESIGN BY	CJB	06
CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A



NOTES

- NEW SIGNAGE POST SLEEVES TO BE IN PLACE PRIOR TO CONCRETE WORKS
- SIGNAGE HEIGHTS AND LATERAL CLEARANCES TO BE AS PER BC MOTI MANUAL OF STANDARD TRAFFIC SIGNS AND PAVEMENT MARKINGS

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APP
A	ISSUED FOR TENDER	2025/12/09	GA	CJ



SIGNAGE

STA 10+180 TO STA 10+400

PIPELINE ROAD IMPROVEMENTS - PHASE 2



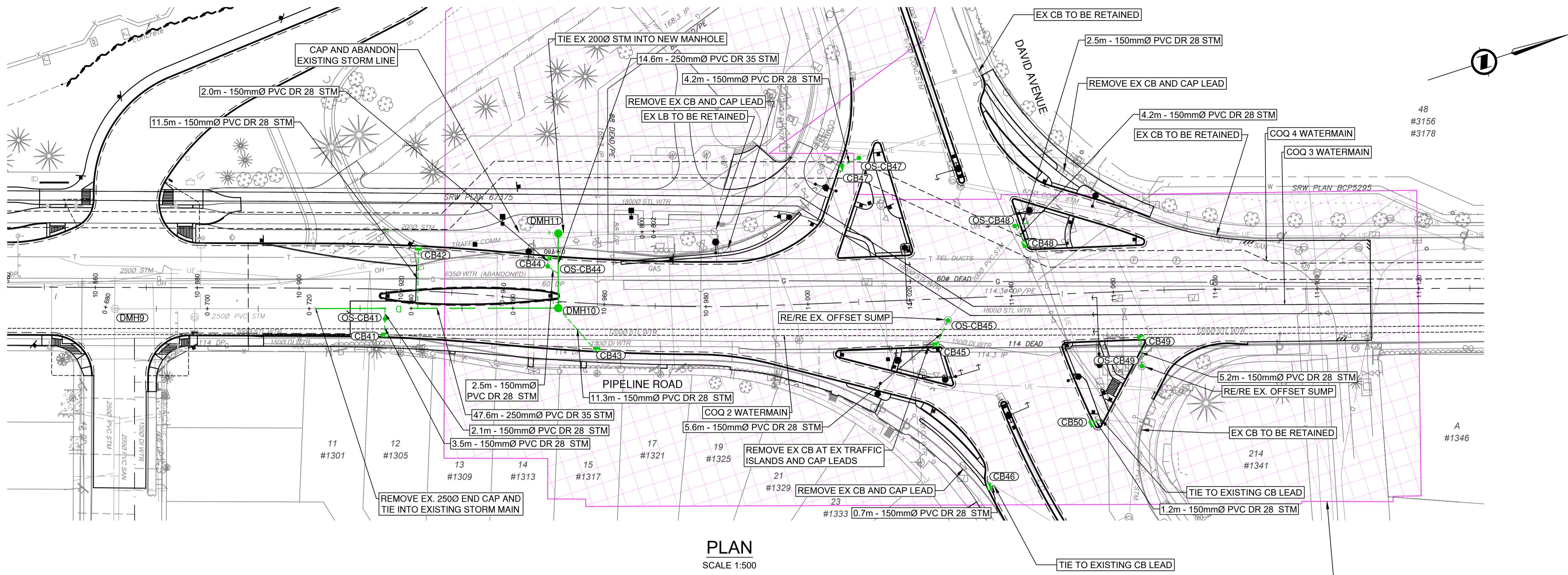
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

SCALE	DESIGN NO.	3232
MADE	AS SHOWN	CREATION DATE NOV - 2025
DRAWN BY	PM	DESIGN BY CJB
CHECKED BY	CJB	APPROVED BY CJB
DATE	December 9, 2025	REV. A

IMPORTANT:

1. SCOPE AND EXPOSE EX. UTILITIES/SERVICES, AND RECORD LOCATION, SIZE & INVERT ELEVATIONS AT PROP. OR POTENTIAL CROSSINGS PRIOR TO CONSTRUCTION. THE AS-BUILT UNDERGROUND INFORMATION SHOWN ON THIS DRAWING IS DERIVED FROM COMBINATION OF SURVEY AND RECORD DRAWINGS AND REQUIRE CONFIRMATION OF LOCATION PRIOR TO CONSTRUCTION.
2. OIL AND GAS ACTIVITIES ACT (SEC. 76) REQUIRES WRITTEN PERMISSION MUST BE OBTAINED PRIOR TO ACTIVITY WITHIN THIRTY (30) METRES OF AN INTERMEDIATE PRESSURE PIPELINE OR TRANSMISSION PRESSURE PIPELINE.
3. CONTRACTOR TO ENSURE MINIMUM COVER OF 1.0m IS MAINTAINED OVER ALL METRO VANCOUVER WATERMAINS. NOTIFY PROJECT ENGINEER IF PROPOSED DESIGN GRADES REDUCE COVER BELOW THE MINIMUM.

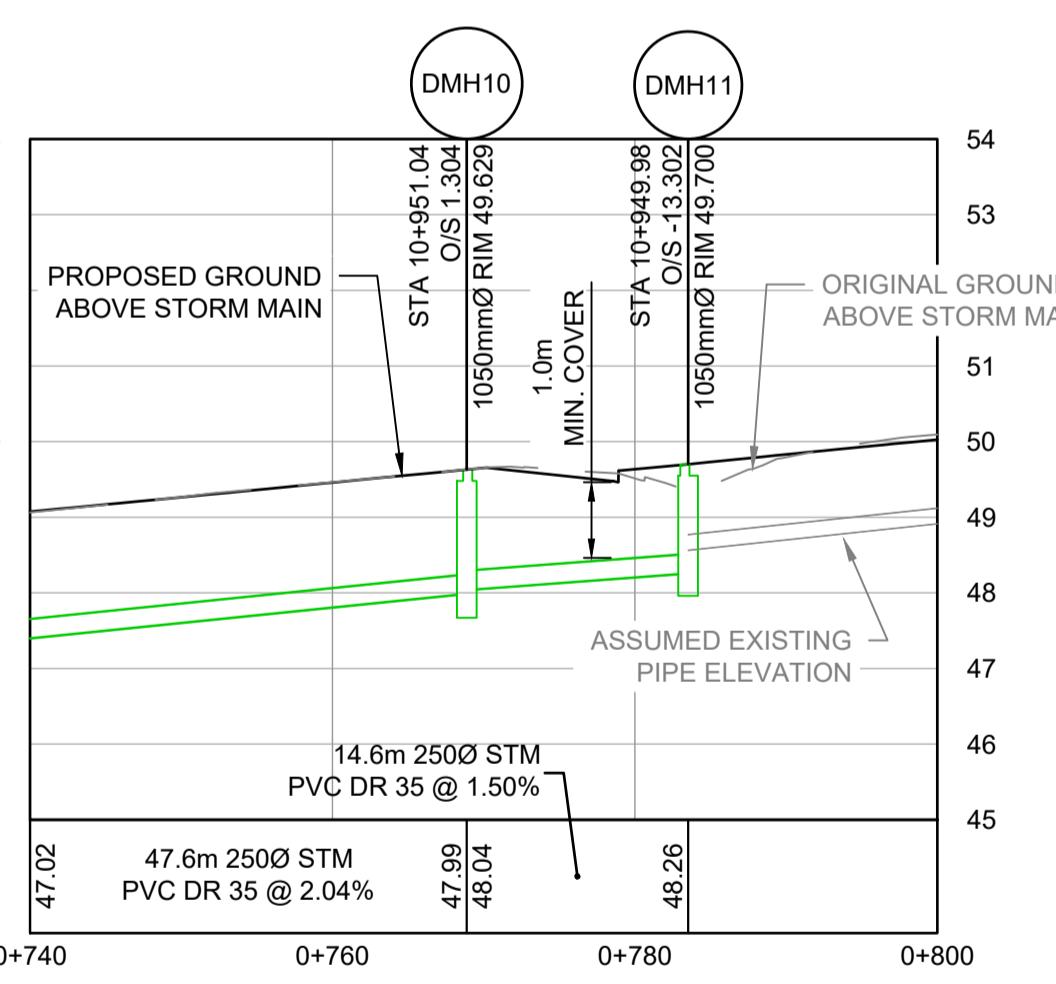
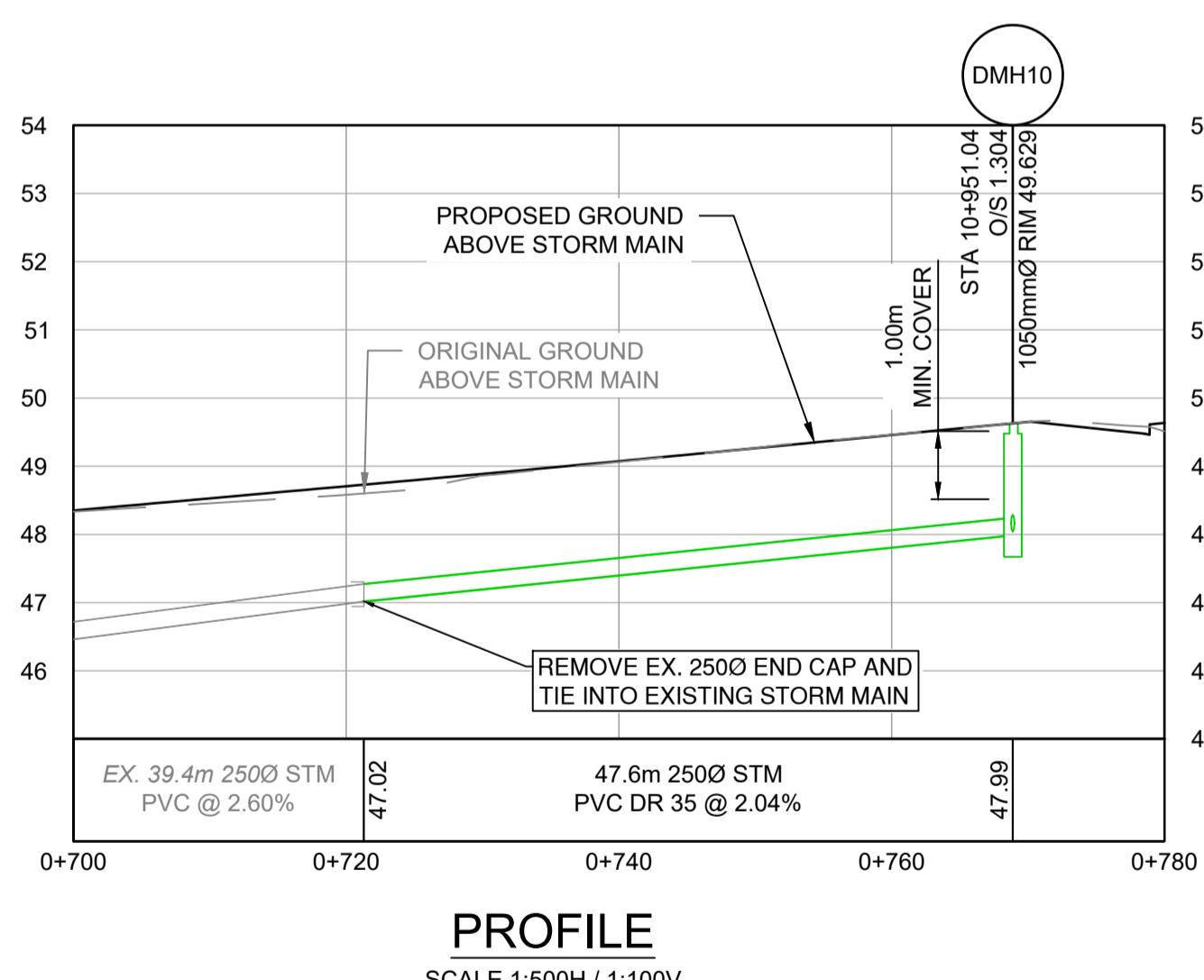
4. ALL PROXIMAL WORK WITHIN 2.0m OF EXISTING METRO VANCOUVER WATERMAINS MUST BE COMPLETED PRIOR TO APRIL 15, 2025. A REPRESENTATIVE MUST BUT ON SITE DURING ALL MV PROXIMAL WORK.
5. THE EXACT LOCATION OF THE EXISTING METRO VANCOUVER WATERMAINS, COQ2 (1200mm) AND COQ3 (1800mm) IS NOT CONFIRMED. CONTRACTOR TO PRE-LOCATE AND CONFIRM LOCATION OF THE COQ2 & COQ3 BY HYDROVAC AND REPORT FINDINGS TO ENGINEER MINIMUM 72 HOURS PRIOR TO CONSTRUCTION.



STORM MANHOLE TABLE				
MH No.	RIM EL.	PIPE INV.	LOCATION	TYPE
DMH10	RIM = 49.63	S Out 47.99 W In 48.04	STA. 10+951.042 O/S 1.304 RT	1,050mm MH AS PER MMCD S1
DMH11	RIM = 49.70	E Out 48.26	STA. 10+949.975 O/S -13.302 LT	1,050mm MH AS PER MMCD S1

CATCH BASIN AND OFFSET SUMP TABLE

CB No.	RIM EL.	LOCATION	TYPE
CB41	48.832	STA. 10+917.102 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSE SUMP PER COQ-S11B
CB42	48.949	STA. 10+922.992 O/S -8.700 LT	900mm SIDE INLET CATCH BASIN ASSEMBLY PER COQ. STD. DWG. COQ-S11A
CB43	49.587	STA. 10+958.965 O/S 9.300 RT	900mm SIDE INLET CATCH BASIN ASSEMBLY PER COQ. STD. DWG. COQ-S11A
CB44	49.396	STA. 10+948.285 O/S -8.700 LT	600mm TOP INLET CATCH BASIN C/W OFFSE SUMP PER COQ-S11B
CB45	49.830	STA. 11+024.764 O/S 9.304 RT	600mm TOP INLET CATCH BASIN C/W OFFSE SUMP PER COQ-S11B
CB46	49.279	STA. 11+033.790 O/S 37.306 RT	900mm SIDE INLET CATCH BASIN ASSEMBLY PER COQ. STD. DWG. COQ-S11A
CB47	50.177	STA. 11+007.242 O/S -26.593 LT	600mm TOP INLET CATCH BASIN C/W OFFSE SUMP PER COQ-S11B
CB48	49.773	STA. 11+043.288 O/S -10.114 LT	600mm TOP INLET CATCH BASIN C/W OFFSE SUMP PER COQ-S11B
CB49	48.999	STA. 11+065.022 O/S 9.500 RT	600mm TOP INLET CATCH BASIN C/W OFFSE SUMP PER COQ-S11B
CB50	48.834	STA. 11+055.052 O/S 25.499 RT	900mm SIDE INLET CATCH BASIN ASSEMBLY PER COQ. STD. DWG. COQ-S11A
OS-CB41	48.937	STA. 10+917.030 O/S 5.800 RT	600mm OFFSET SUMP AS PER COQ-S11B
OS-CB44	49.473	STA. 10+948.339 O/S -6.731 LT	600mm OFFSET SUMP AS PER COQ-S11B
OS-CB45	49.924	STA. 11+027.297 O/S 4.296 RT	600mm OFFSET SUMP AS PER COQ-S11B
OS-CB47	50.121	STA. 11+011.138 O/S -28.258 LT	600mm OFFSET SUMP AS PER COQ-S11B
OS-CB48	49.886	STA. 11+041.159 O/S -13.710 LT	600mm OFFSET SUMP AS PER COQ-S11B
OS-CB49	48.882	STA. 11+065.004 O/S 14.738 RT	600mm OFFSET SUMP AS PER COQ-S11B



IFT- PHASE 2

32524

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	ISSUED FOR TENDER	2025/12/09	GA	CJB



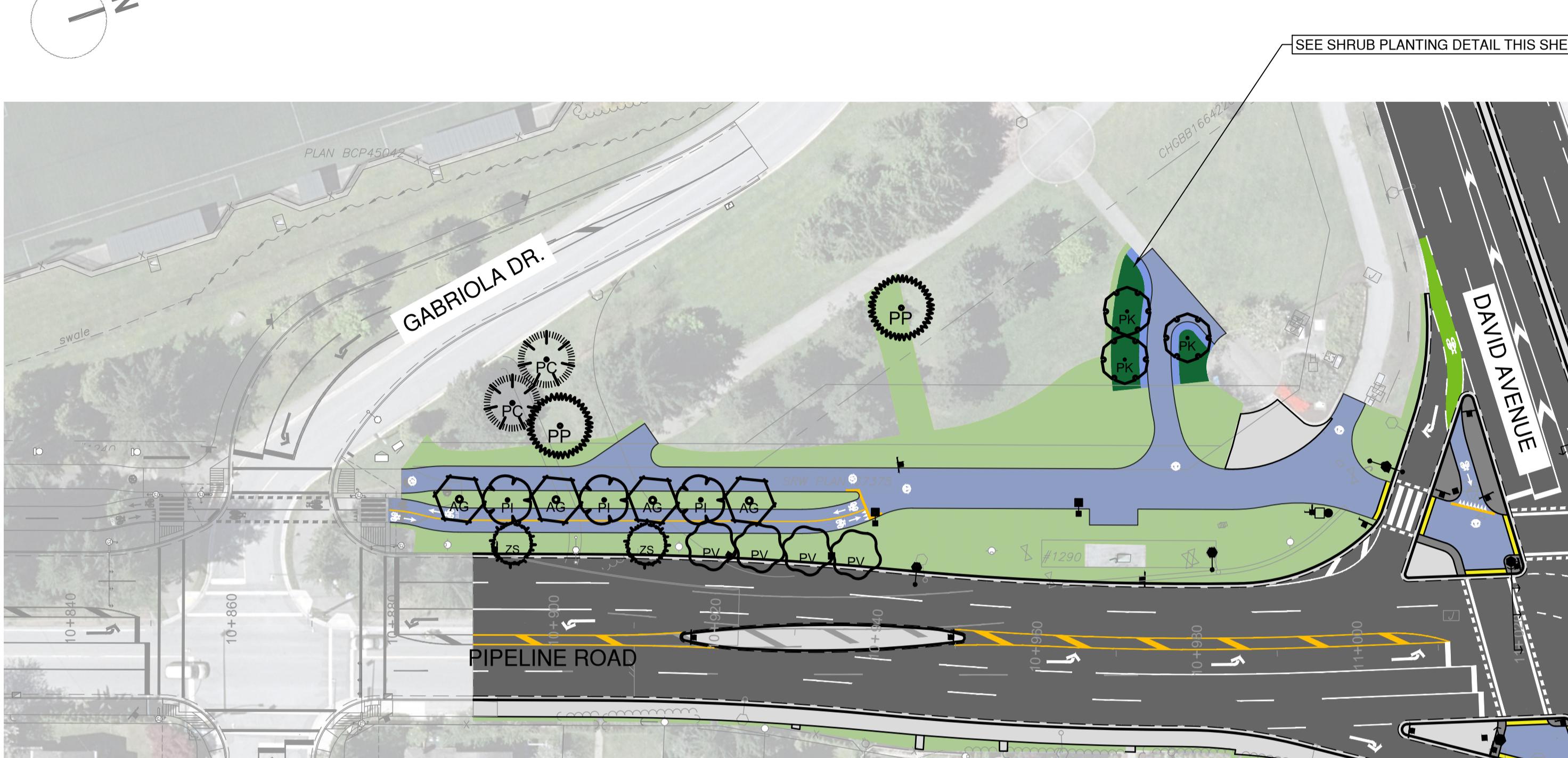
STORM SEWER

STA 10+900 TO STA 11+130 PIPELINE ROAD IMPROVEMENTS - PHASE 2



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

SCALE	AS SHOWN	CREATION DATE	NOV - 2025	DWG. NO. 08 OF 15 REV. A
DRAWN BY	PM	DESIGN BY	CJB	
CHECKED BY	CJB	APPROVED BY	CJB	
PLOT DATE	December 9, 2025			



TREE PLANTING PLAN

SCALE: 1:500

LEGEND

- PROPOSED LAWN
- PROPOSED ANNUAL PLANTING (WORK BY OTHERS - N.I.C.)
- PROPOSED SHRUB PLANTING
- EXISTING TREE TO BE RETAINED
- HYDRO POLE

MINIMUM TREE PLANTING CLEARANCE FOR ELEMENTS:

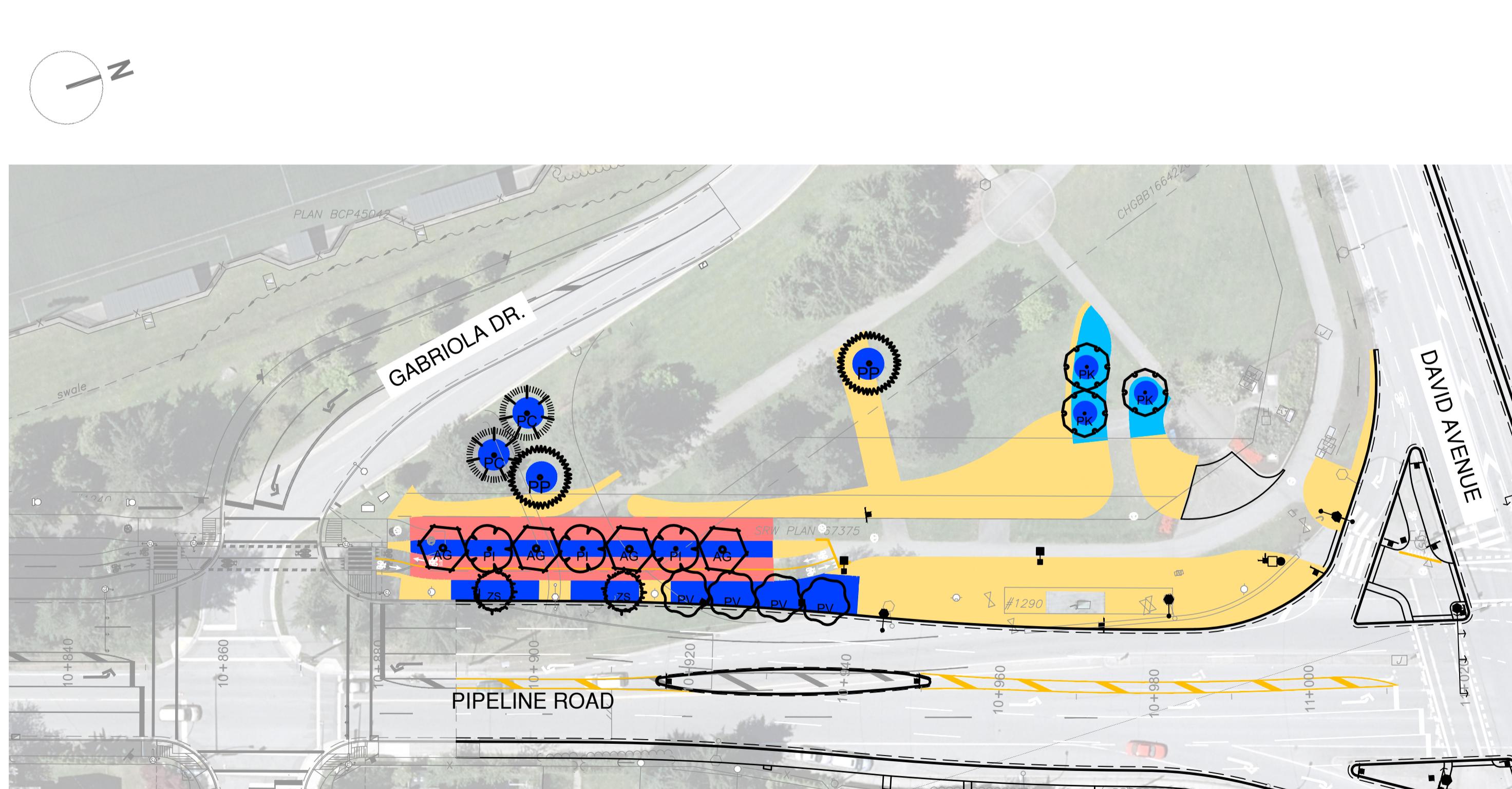
STREETLIGHTS	6m
CATCH BASINS	2m
STREET INTERSECTIONS	8m
HYDRANTS	3m
MANHOLES, VALVE BOXES, SERVICE CONNECTIONS	2m
DRIVEWAYS	2m
JUNCTION BOXES	3m
KIOSKS	2m



SHRUB PLANTING PLAN

SCALE: 1:200

NOTES:
1. PLANTING BED PLANT LAYOUT TBD.
2. NEW TREES NOT SHOWN ON PLAN FOR VISUAL CLARITY.



SOILS PLAN

SCALE: 1:500

LEGEND

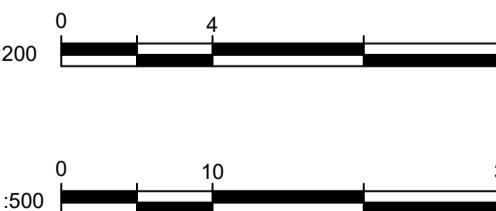
- 900mm DEPTH SOIL
- 450mm DEPTH SOIL
- 150mm DEPTH SOIL
- 900mm DEPTH STRUCTURAL SOIL

PLANT SCHEDULE - TREES

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
BOULEVARD (POWERLINES)					
	PV	4	Parrotia persica	Persian Parrotia	B&B, 70mm Cal.
	ZS	2	Zelkova serrata 'City Sprite'	City Sprite Zelkova	B&B, 70mm Cal.
PARK SIDE					
	PC	2	Pinus contorta contorta	Shore Pine	B&B, 3.0m Ht.
	PP	2	Pinus ponderosa	Ponderosa Pine	B&B, 3.0m Ht.
	PK	3	Prunus serrulata 'Kwanzan'	Kwanzan Japanese Flowering Cherry	B&B, 70mm Cal.
PATHWAY MEDIAN (WATERMAIN)					
	AG	4	Acer griseum	Paperbark Maple	B&B, 70mm Cal.
	PI	3	Pistacia chinensis	Chinese Pistache	B&B, 70mm Cal.

PLANT SCHEDULE - SHRUBS

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SIZE
PARK BEDS					
Cb2	9	Cimicifuga racemosa 'Brunette'	Snakeroot	#2 Pot	750mm O.C.
Ew	16	Euphorbia characias wulfenii	Evergreen Spurge	#2 Pot	1000mm O.C.
Hp2	70	Hebe pinguifolia 'Pagei'	Page Hebe	#2 Pot	450mm O.C.
Ha2	89	Helleborus 'Ivory Prince'	Lenten Rose	#2 Pot	300mm O.C.
Np	57	Nandina domestica 'Firepower'	Firepower Heavenly Bamboo	#2 Pot	600mm O.C.
Rs	11	Rosa x 'Scarlet Meidiland'	Scarlet Meidiland Rose	#2 Pot	1000mm O.C.



NOTE: PLANTING TO BE COMPLETED BETWEEN OCTOBER 1ST AND MARCH 31ST.

IFT- PHASE 2 DESIGN NO.

32524

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	ISSUED FOR TENDER	2025/12/09	GA	CJB

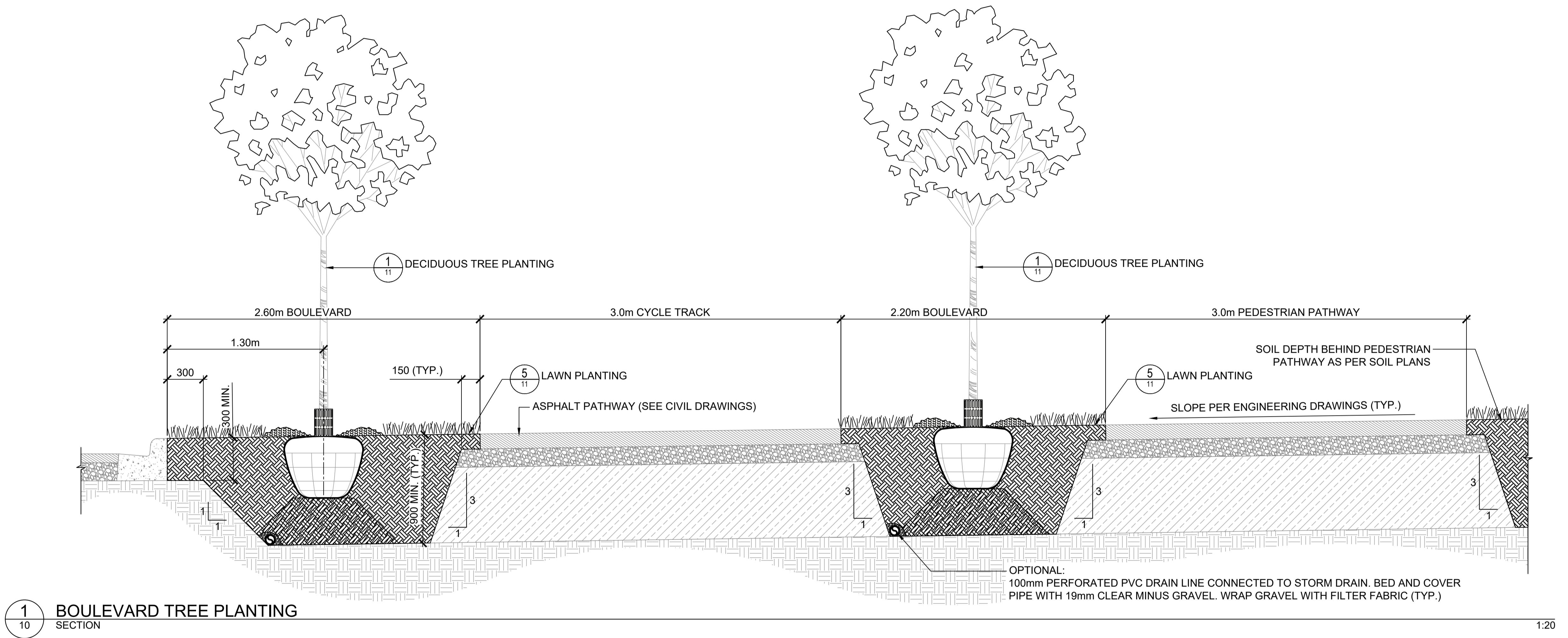
Coquitlam

PLANTING PLAN
PIPELINE ROAD IMPROVEMENTS - PHASE 2



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

SCALE	AS SHOWN	CREATION DATE	####
DRAWN BY	EZ	DESIGN BY	AR
CHECKED BY	CJB	APPROVED BY	CJB
PLOT DATE	December 9, 2025	REV. A	09 OF 15



REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	ISSUED FOR TENDER	2025/12/09	GA	CJB



LANDSCAPE DETAILS 1
PIPELINE ROAD IMPROVEMENTS - PHASE 2



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

SCALE	AS SHOWN	CREATION DATE	####	DWG. NO.
DRAWN BY	EZ	DESIGN BY	AR	10 OF 15
CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A

SCALE	AS SHOWN	CREATION DATE	####	DWG. NO.
DRAWN BY	EZ	DESIGN BY	AR	10 OF 15
CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A

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PLOT DATE	December 9, 2025			REV. A

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DRAWN BY	EZ	DESIGN BY	AR	10 OF 15
CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A

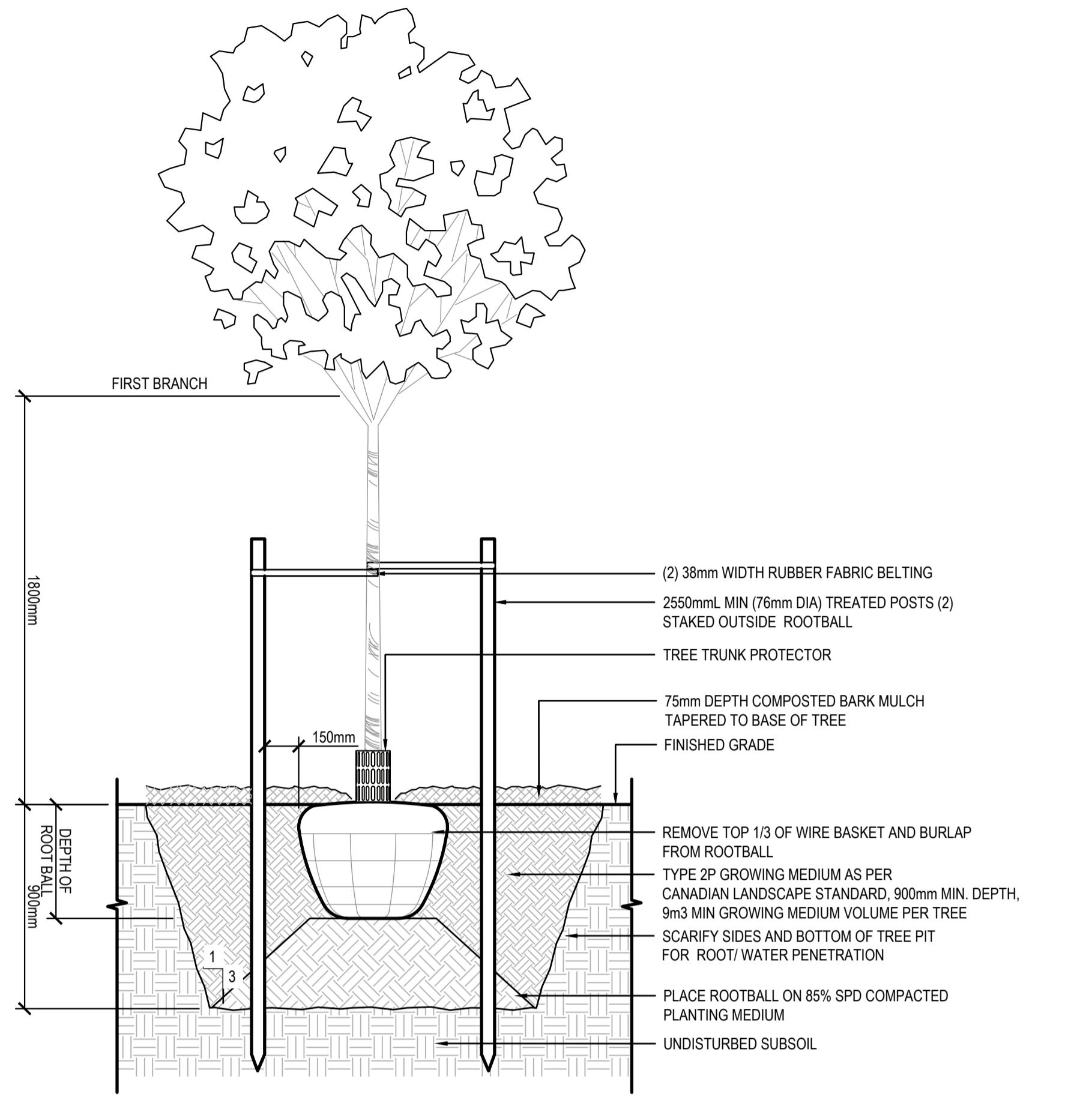
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CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A

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DRAWN BY	EZ	DESIGN BY	AR	10 OF 15
CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A

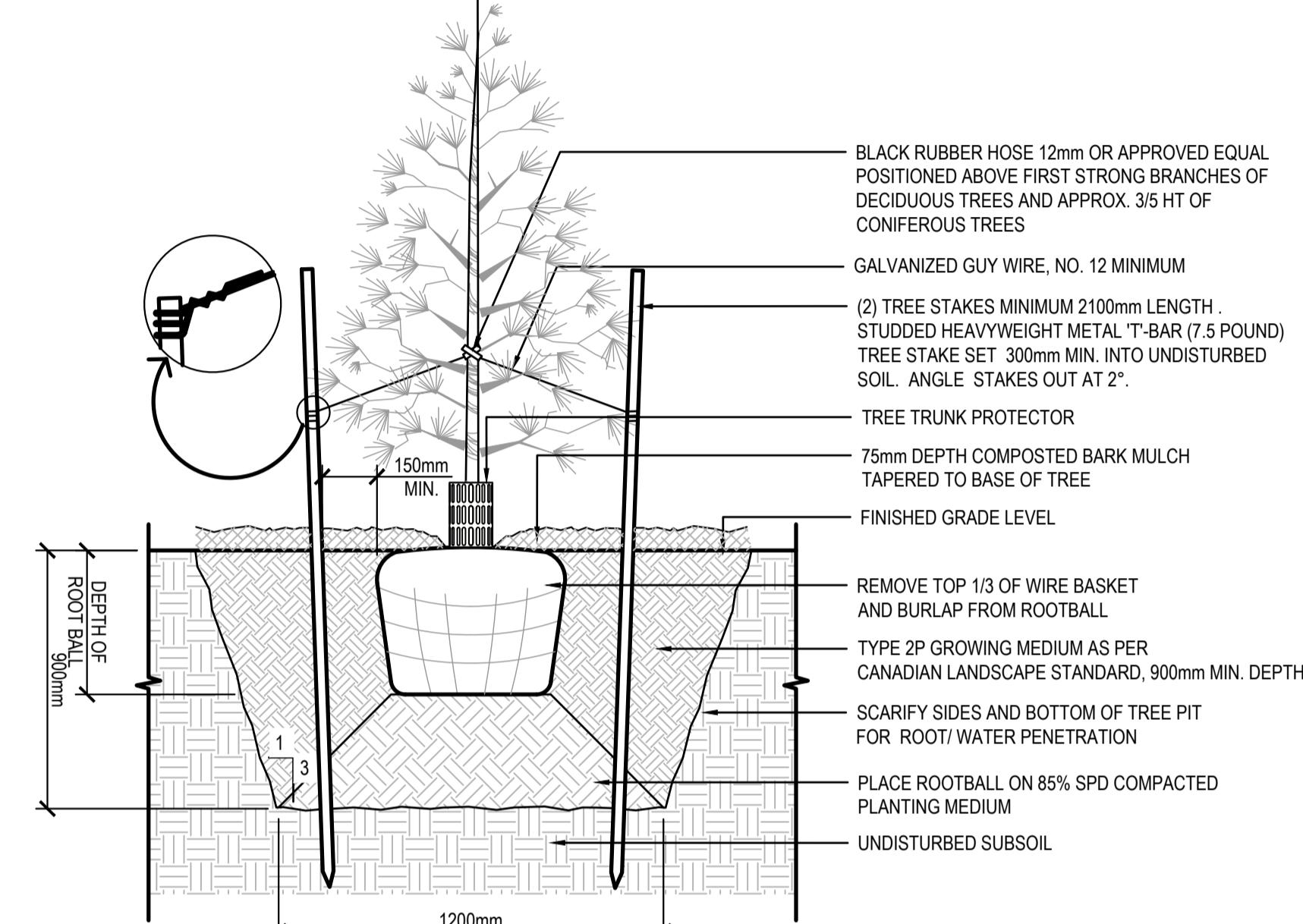
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CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A

SCALE	AS SHOWN	CREATION DATE	####	DWG. NO.
DRAWN BY	EZ	DESIGN BY	AR	10 OF 15
CHECKED BY	CJB	APPROVED BY	CJB	15

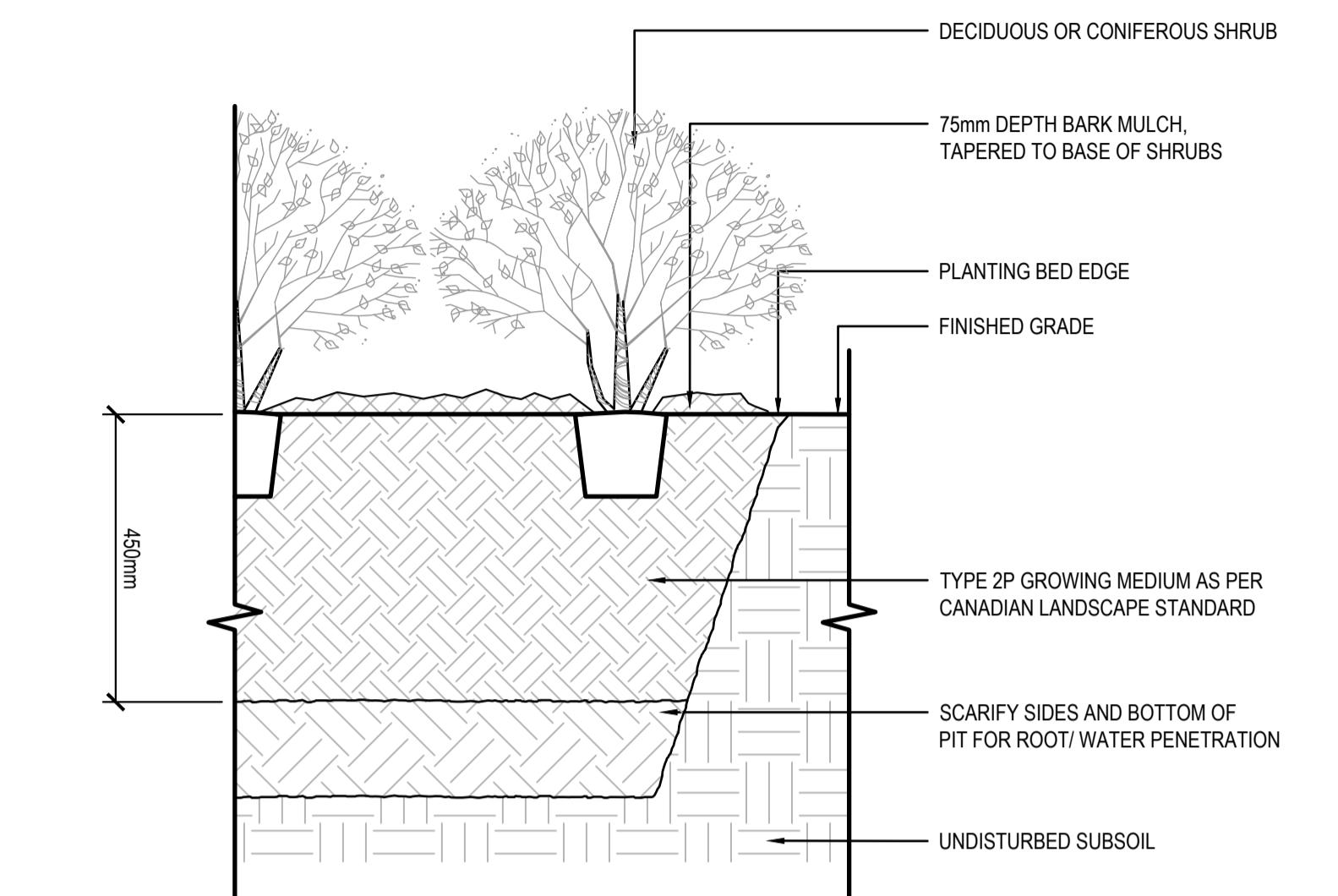
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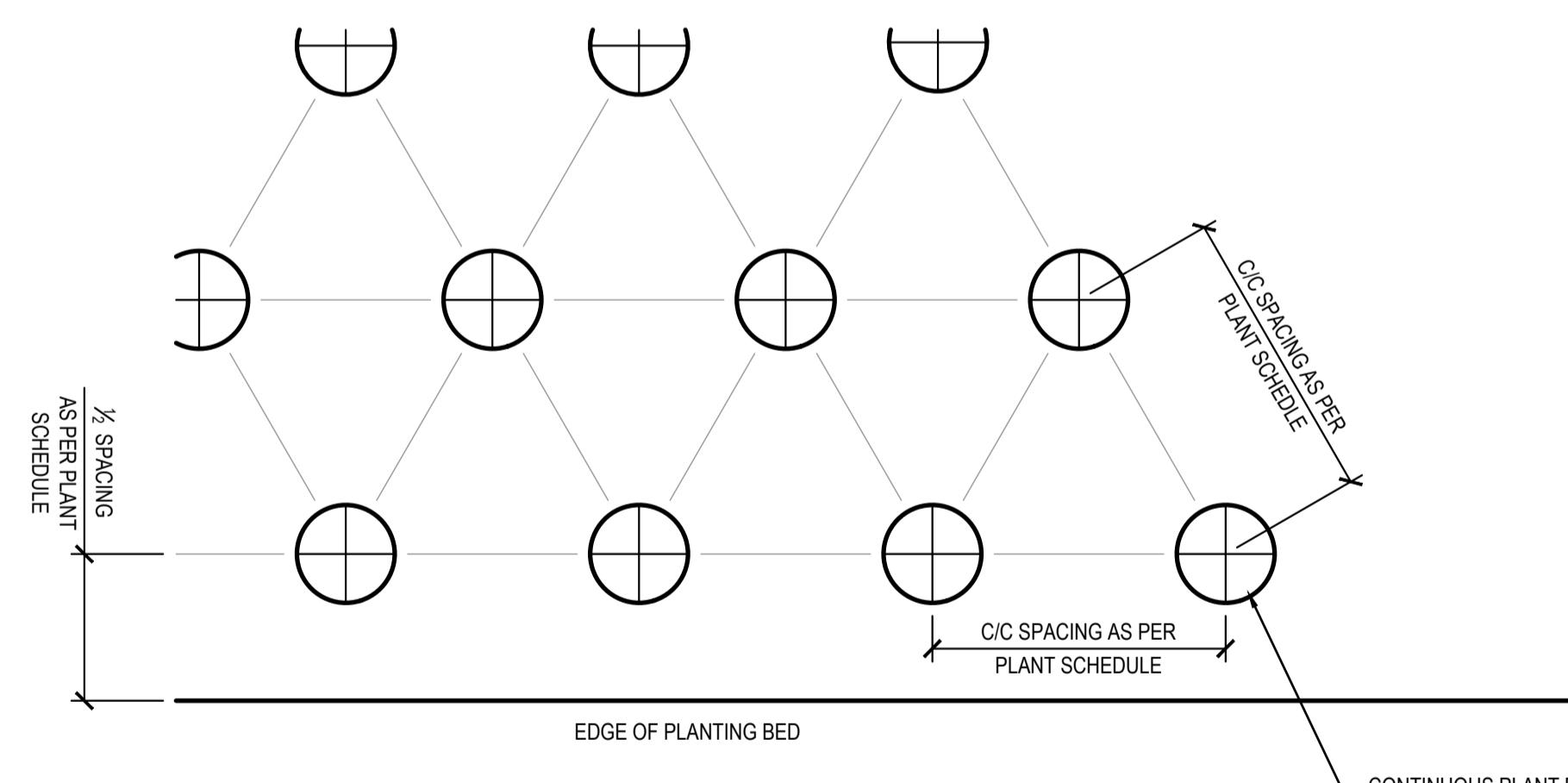
1 11 DECIDUOUS TREE PLANTING SECTION 1:20



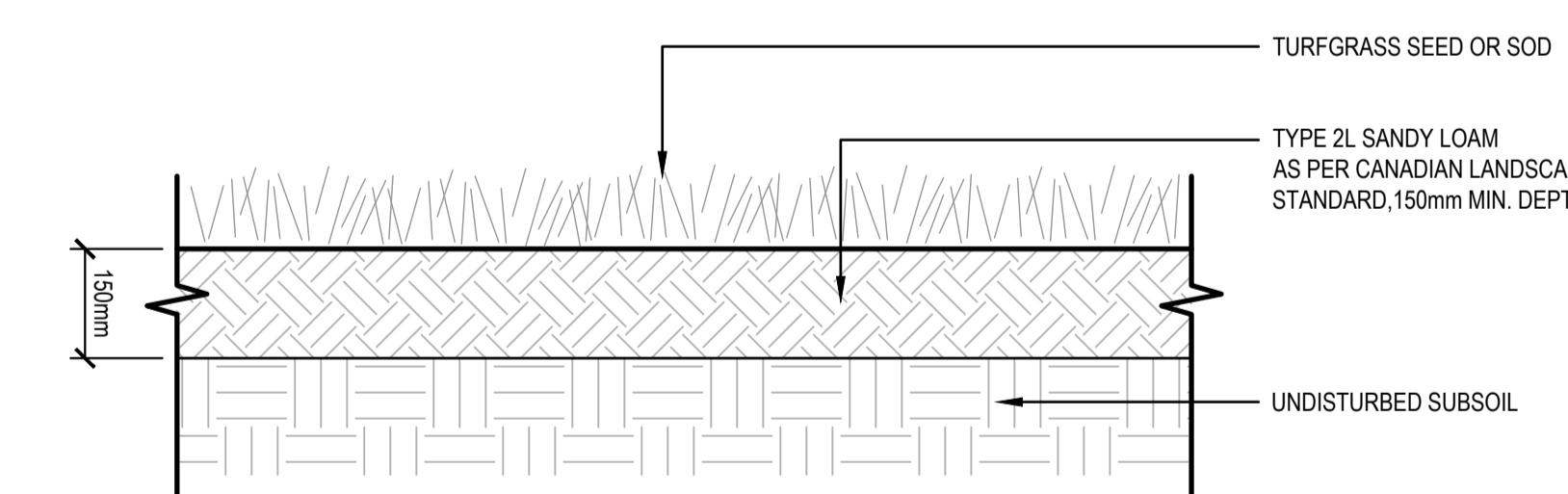
2 11 CONIFEROUS TREE PLANTING SECTION 1:20



3 11 SHRUB PLANTING SECTION 1:10



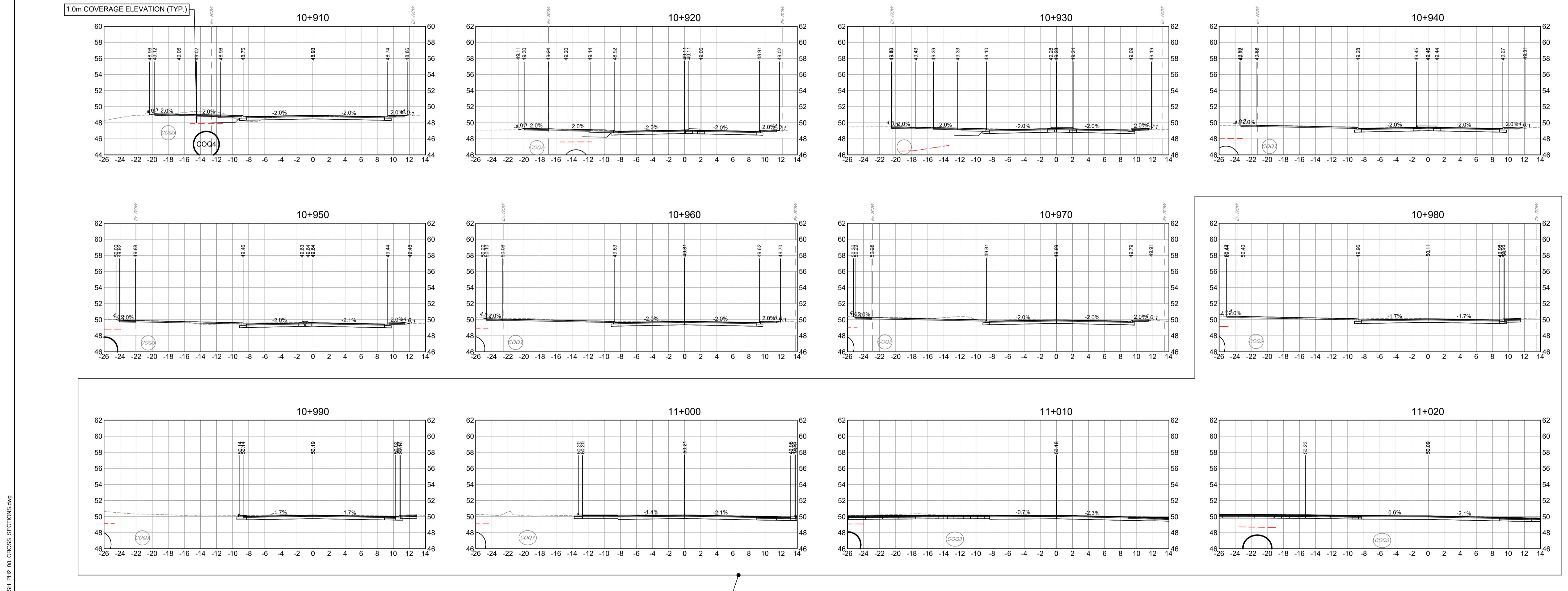
4 11 SHRUB SPACING PLAN 1:10



5 11 LAWN PLANTING SECTION 1:10

REV. NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	ISSUED FOR TENDER	2025/12/09	GA	CJB

SCALE	AS SHOWN	CREATION DATE	####	DWG. NO.
DRAWN BY	EZ	DESIGN BY	AR	11 OF 15
CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A



DAVID AVENUE INTERSECTION

1:250 0 5 15m

IFT- PHASE 2 DESIGN NO. 32524

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	ISSUED FOR TENDER	2025/12/09	GA	CJB



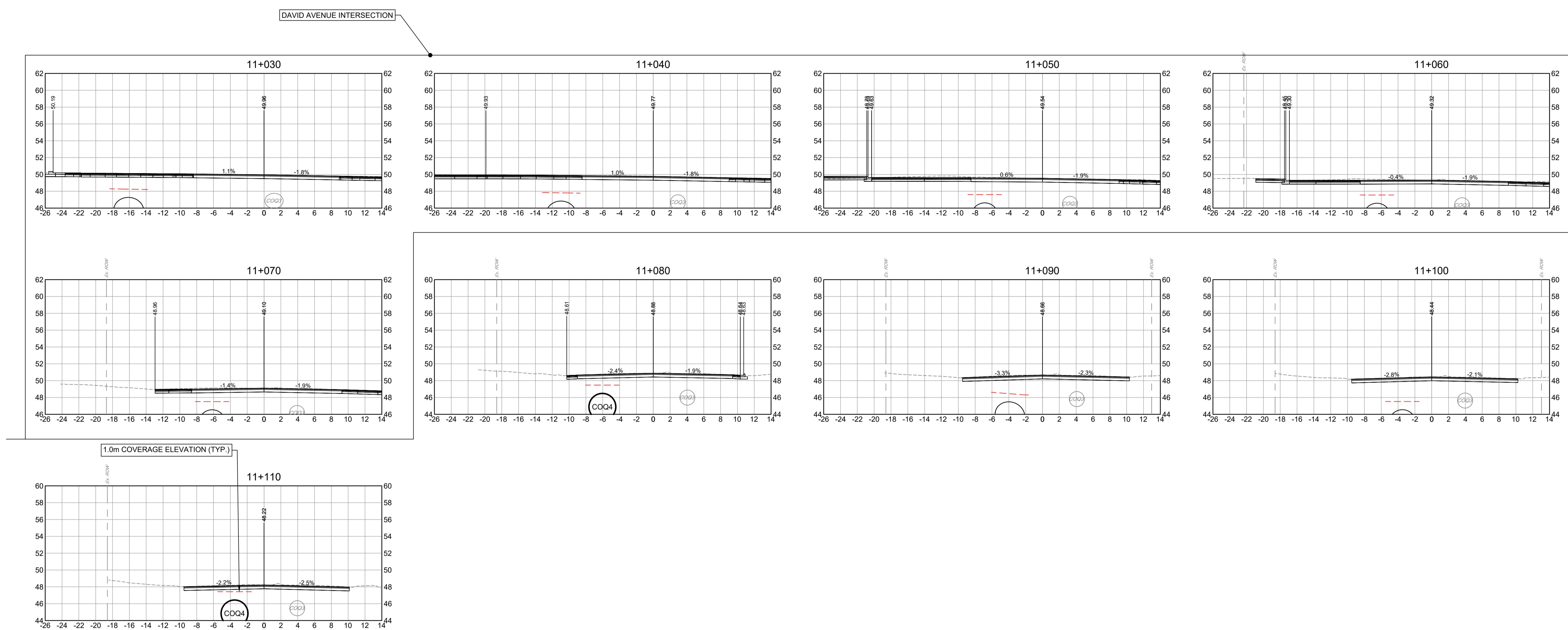
CROSS SECTIONS

STA 10+870 TO STA 11+020 PIPELINE ROAD IMPROVEMENTS - PHASE 2



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

SCALE	1:250	CREATION DATE	####	DWG. NO.
DRAWN BY	PM	DESIGN BY	CJB	12 OF 15
CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025	REV.	A	

0 5 15m
1:250

IFT- PHASE 2 DESIGN NO.

32524

REV. NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	ISSUED FOR TENDER	2025/12/09	GA	CJB

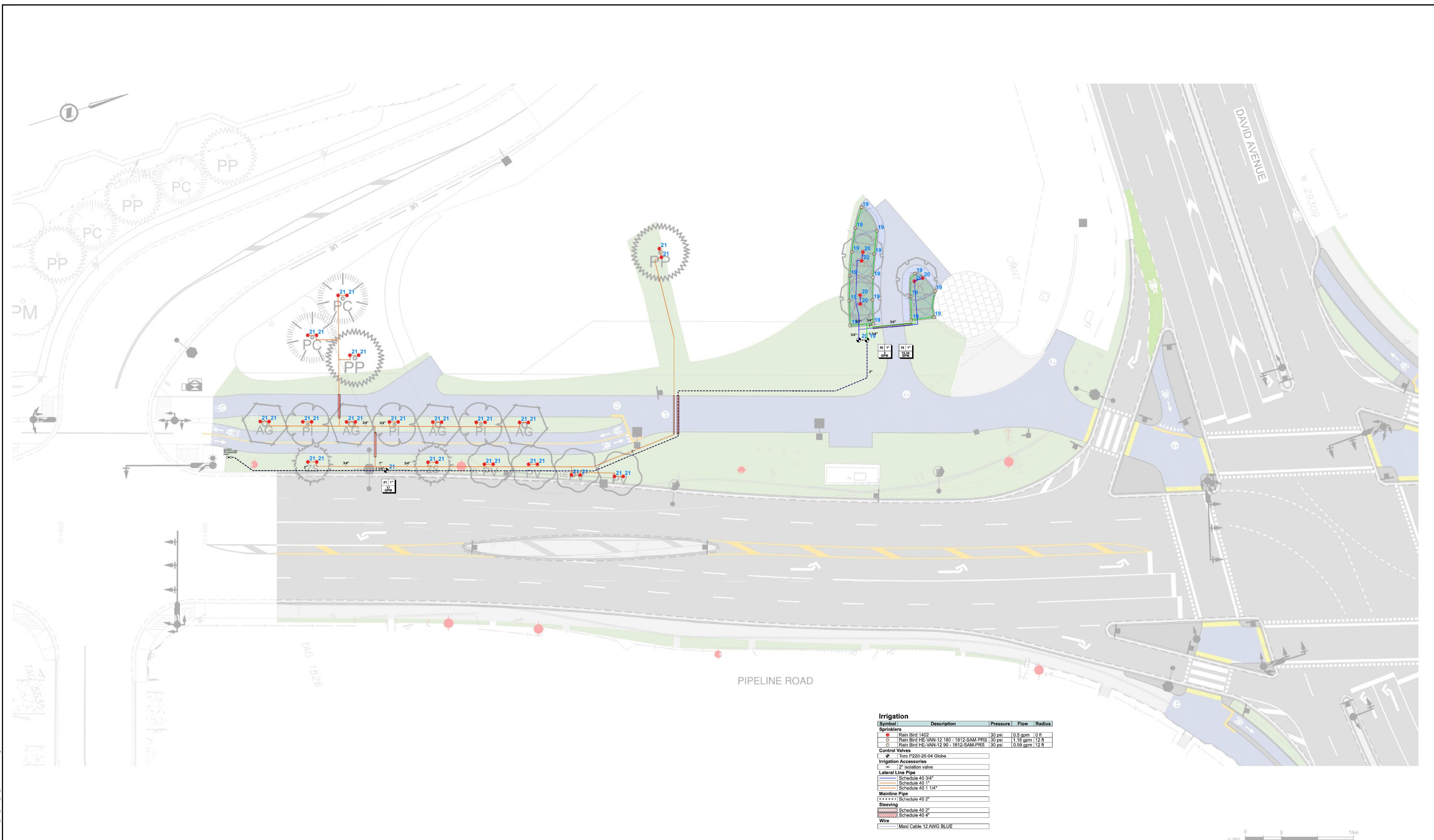


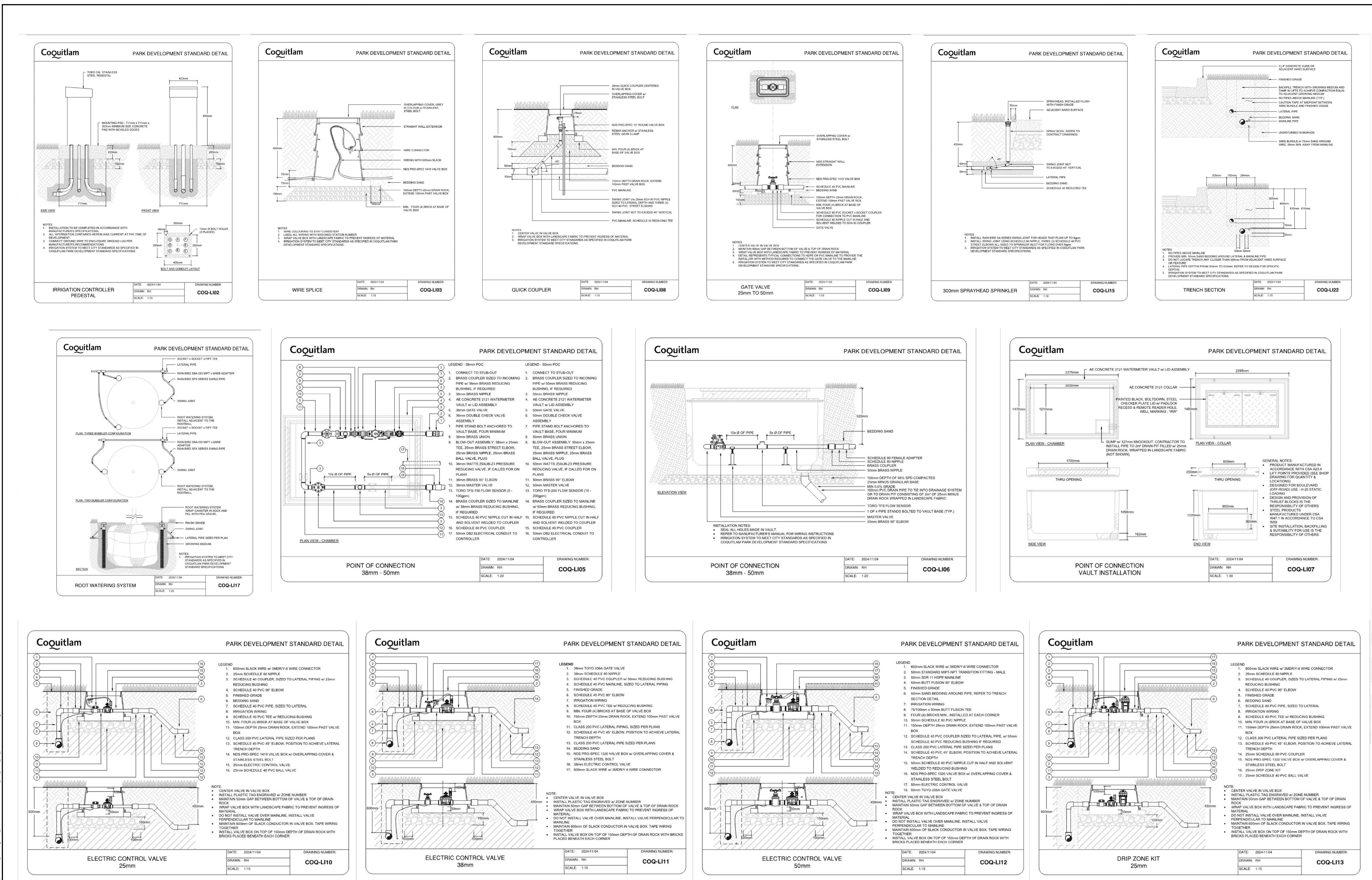
CROSS SECTIONS

STA 11+030 TO STA 11+110 PIPELINE ROAD IMPROVEMENTS - PHASE 2

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

SCALE	1:250	CREATION DATE	####	DWG. NO.
DRAWN BY	PM	DESIGN BY	CJB	13
CHECKED BY	CJB	APPROVED BY	CJB	15
PLOT DATE	December 9, 2025			REV. A





REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APP'D
A	ISSUED FOR TENDER	2025/12/09	GA	CJB

Coquitlam

IRRIGATION

IRRIGATION DETAILS

PIPELINE ROAD IMPROVEMENTS - PHASE 2

KORS

ISL

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

IFT- PHASE 2 DESIGN NO. 32524

SCALE	AS SHOWN	CREATION DATE	####	DWG. NO.
DRAWN BY	PM	DESIGN BY	CJB	15 OF 15
CHECKED BY	CJB	APPROVED BY	CJB	
PLOT DATE	December 9, 2025			REV. A

STREET LIGHTING NOTES

1. UNLESS OTHERWISE INDICATED, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF COQUITLAM CURRENT SUBDIVISION CONTROL BYLAWS, CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAILED DRAWINGS, CITY OF COQUITLAM APPROVED MATERIALS AND PRODUCTS LISTINGS, AND 2019 MMCD PLATINUM EDITION.
2. THE CONTRACTOR SHALL REFER TO COQUITLAM RECORD DRAWINGS, FOR ALL CITY UTILITIES AND INFRASTRUCTURE, SERVICE LOCATIONS AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE CONFIRMED ON SITE BY THE DESIGN ENGINEERS, CIVIL OR ELECTRICAL CONTRACTORS, AND WITH CITY OF COQUITLAM INSPECTORS.
3. BCOneCall CALL BEFORE YOU DIG. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (FORTIS, BC HYDRO, SHAW AND TELUS) ARE SHOWN IN AN APPROXIMATION ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING CITY OF COQUITLAM INFRASTRUCTURE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
4. PRIOR TO STREET LIGHT BASE INSTALLATIONS, THE CONTRACTOR SHALL ENSURE THAT ALL STREET LIGHT POLES, FIXTURES AND RELATED EQUIPMENT MEETS OR EXCEED BC HYDRO CLEARANCE STANDARDS FOR ABOVE AND BELOW GROUND INFRASTRUCTURES, TELUS OR SHAW, AND WORKSAFEBC CLEARANCE REQUIREMENTS FOR ALL OVERHEAD PRIMARY AND SECONDARY (120/240V) CONDUCTORS. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CITY OF COQUITLAM, AND TO THE DESIGN ENGINEERS.
5. THE CONTRACTOR SHALL NOTIFY PROVINCIAL AND CITY OF COQUITLAM INSPECTORS 24 HOURS PRIOR TO COMMENCEMENT OF UNDERGROUND ELECTRICAL WORK.
6. THE CIVIL/ELECTRICAL CONTRACTOR SHALL OBTAIN PERMITS FROM THE CITY OF COQUITLAM, AND FROM TECHNICAL SAFETY BC (WAS BC SAFETY AUTHORITY).
7. THE TECHNICAL SAFETY BC (WAS BC SAFETY AUTHORITY) SHALL BE MADE AWARE OF THE (POSSIBLE) USE OF AN IRRIGATION SYSTEM WITHIN THE STREET LIGHT POLES. IRRIGATION POWER SHALL BE POWERED FROM METERED CIRCUITS.
8. ALL STREET LIGHT WIRING SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH CSA, CANADIAN ELECTRICAL CODE, PROVINCE OF BRITISH COLUMBIA AMENDMENTS AND ALL BULLETINS ISSUED BY TECHNICAL SAFETY BC (WAS BC SAFETY AUTHORITY), INCLUDING THE PROVINCIAL ELECTRICAL INSPECTION AMENDMENTS.
9. HYDRO SERVICE DIP CONNECTIONS SHALL BE PER BC HYDRO STANDARDS OR PER MMCD 2019. NOTE: HYDRO DIP SERVICES MUST USE A STEEL GUARD OVER RPVC CONDUITS. THE USE OF RIGID CONDUIT AND/OR RPVC TO RIGID CONDUIT FITTINGS IS NO LONGER PERMITTED.
10. MINIMUM DEPTH FOR UNDERGROUND CONDUIT DUCTING SHALL BE 600-MM (MINIMUM) BELOW BOULEVARD AND SIDEWALKS, AND 900-MM (MINIMUM) BEHNEATH ASPHALT. PER CITY OF COQUITLAM SUBDIVISION AND DEVELOPMENT SERVICING BYLAWS.
11. ALL CONDUITS SHALL BE RIGID P.V.C MANUFACTURED IN ACCORDANCE WITH C.S.A. C22.2 No. 211.2 (NOT DBI).
12. CONCRETE STREET LIGHT / SERVICE BASES WITH MORE THAN 2 CONDUITS SHALL BE NOTED ON THE PLANS. AS AN EXAMPLE, "THIS BASE HAS (X) CONDUITS"
13. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE TYPE RW90 (MINIMUM), STRANDED COPPER, INSULATED, AND COLOUR CODED PER DRAWINGS.
14. NEW STREET LIGHTING DESIGNS SHALL ONLY BE 120/240V.
15. UNLESS OTHERWISE INDICATED: ALL POLES, ARMS, SERVICE BASES, HAND ACCESS COVERS, SECURITY COVERS, AND RE-ENFORCED STEEL BACKING BARS, SHALL BE GALVANIZED, PRIMED AND POWER-COATED. CONSULT THE PLANS FOR SPECIFIC COLOURS.
16. ALL STREET LIGHT HAND-HOLE COVERS SHALL BE PROVIDED WITH SECURITY COVERS REINFORCED U-SHAPED REINFORCED BACKER BARS AND SECURITY BOLTS. TWO MAJOR POLE MANUFACTURERS OFFER ENHANCED SECURITY DEVICES:
 - a. NOVA POLE OFFERS A REINFORCED COVER, REVERSE THREADED SECURITY BOLT, AND ROBUST BACKER BAR. CONTRACTOR SHALL PROVIDE ONE (1) TOOL BIT TO COQUITLAM TRAFFIC OPERATIONS
 - b. THE ABOVE ITEM DOES NOT APPLY TO SPECIALTY POLES, SUCH AS PHILLIPS, LUMEC, QUATIRO, ETC. CONSULT THOSE COMPANIES FOR THEIR SECURITY MEASURES.
 - c. THE BULLDOG PRODUCTS AND WIRE SENTRY PRODUCTS ARE NO LONGER APPROVED FOR USE IN COQUITLAM.
17. ALL THREADED BOLTS, NOT USED FOR ELECTRICAL CONNECTIONS, SHALL HAVE ANTI-SEIZE COMPOUND APPLIED. THIS ALSO APPLIES TO SECURITY BOLTS NOTED ABOVE
18. PHOTO ELECTRIC CONTROL (PEC) SHALL ONLY BE SOLID-STATE DESIGN, WITH ELECTROMECHANICAL CONTACTS.
19. PEC CONDUCTORS SHALL BE #12 RW90, COLOURS: RED, BLACK AND WHITE. THE PEC CONDUCTORS SHALL BE A COMPLETE RUN, WITHOUT SPLICES, FROM THE PEC TO THE ELECTRICAL PANEL. BUNDLED SEPARATE OF THE STREET LIGHTING CONDUCTORS.
20. LUMINAIRES SHALL BE WIRED WITH #12 RW90 CONDUCTORS. BLACK AND WHITE FOR 120V SERVICE. BLACK AND RED FOR 240V SERVICE. WIRING BUNDLED SEPARATE OF THE PHOTO-ELECTRIC CONTROL (PEC) CONDUCTORS.
21. LUMINAIRES ON BLACK CONDUCTOR ARE IDENTIFIED WITH A B DESIGNATION NEXT TO THE LUMINAIRES
22. LUMINAIRES ON RED CONDUCTOR ARE IDENTIFIED WITH A R DESIGNATION NEXT TO THE LUMINAIRES
23. EACH LUMINAIRE SHALL BE PROVIDED WITH A TRON HEB-AA FUSE-HOLDER C/W 2 L-TYPE INSULATING BOOTS, OR PRE-APPROVED EQUIVALENT. THE FUSE-HOLDER SHALL BE ACCESSIBLE IN THE HAND-HOLE COVER.
24. EACH FUSE HOLDER SHALL BE PROVIDED WITH ONE 10-AMPERE BUSS KTK-TYPE FUSE (600V), WIRED IN THE LIVE CONDUCTOR(S). THE FUSE HOLDER SHALL BE ACCESSIBLE FROM THE HAND-HOLE ACCESS, OR JUNCTION BOX.
25. ALL LUMINAIRE FIXTURES SHALL BE BONDED WITH A NUMBER 12 RW90 GREEN CONDUCTOR. THIS CONDUCTOR SHALL TERMINATE INTO THE BONDING CONDUCTOR RUN AT THE BASE OF THE POLE.
26. THE BOND STUD OPENING SHALL BE AT THE REAR OF THE POLE AND SHALL NOT BE ON THE FLANGE OF THE ACCESS HOLE OPENING.
27. THE INTERIOR COLOUR-FINISHED SURFACE SURROUNDING THE BOND STUD SHALL BE GROUND OFF TO THE GALVANIZING OR BARE STEEL FOR THE ELECTRICAL BOND ADHERENCE. TO ENSURE A PROPER BOND AND REDUCE CORROSION OR RUSTING, THE BONDING STUD SHALL BE INSTALLED IMMEDIATELY AFTER THE GRINDING.
28. THE BONDING STUD IN EACH POLE SHALL COMPRIZE OF ONE 3/8-16 BOLT 1.5-INCHES LONG, ONE SPLIT LOCK WASHER, AND TWO HEX NUTS. THE SPLIT LOCK-WASHER SHALL BE SLID ONTO THE BOLT ON THE INSIDE OF THE POLE, AND HELD TIGHTLY IN PLACE WITH THE FIRST NUT. THIS NUT SHALL BE TIGHTENED TO SPECIFICATION. THE RING TERMINAL SHALL BE SANDWICHED BETWEEN THE TWO HEX NUTS. THE LAST NUT HOLDS THE RING TERMINAL IN PLACE. ALL HARDWARE SHALL BE TIGHTENED TO SPECIFICATIONS.
29. ALL POLES SHALL BE BONDED WITH A NO 8 RW90 BONDING CONDUCTOR. THE CONTRACTOR SHALL SUPPLY A 4WAY PIGTAIL SPLICE TO THE POLE BOND, AND WITH A RING LUG TERMINAL BENEATH THE BONDING HARDWARE.
30. ALL LARGE GAUGE, MULTIPLE CONDUCTOR SPLICES, WHICH MAY EXCEED THE LARGER WIRE NUTS, SHALL UTILIZE SPLIT BOLT HARDWARE, DUCT SEALANT, AND WITH WEATHER-RESISTANT / WATER-PROOF CONNECTION MEANS. THE STANDARD HOUSE-HOLD WIRE NUT IS NOT WATER PROOF.
31. ALL LARGE GAUGE (# 8 OR LARGER) SPLICES AND CONNECTIONS, WITHIN JUNCTION BOXES OR HAND ACCESS OPENINGS, SHALL BE SEALED WITH TAPE CONSISTING OF BISHOP BI-SEAL PHILLIPS ROTRUND OR 3M SELF HOLDING TAPE; COVERED WITH PVC TAPE AND DIPPED IN 3M SCOTCHCOAT. OR PRE-APPROVED EQUIVALENT.
32. FUSE HOLDERS IN HAND ACCESS AND JUNCTION BOXES SHALL UTILIZE AN IDEAL INDUSTRIES OR BUCHANAN CONSTRUCTION PRODUCTS 65 KIT WATER-PROOF FUSE HOLDER, OR APPROVED EQUIVALENT. EACH FUSE-HOLDER SHALL BE PROVIDED WITH ONE 10-A BUSS KTK-TYPE FUSE, WIRED IN THE LIVE CONDUCTOR(S). FOR 240V LINE TO LINE SERVICES, ONE TWO FUSE SHALL BE USED.
33. WIRING AND FUSE-HOLDERS IN POLE HAND ACCESS AND/OR JUNCTION BOXES SHALL BE MARKED WITH YELLOW WATER-PROOF WIRE MARKER TAGS, AND ATTACHED USING TIE-WRAPS. LABELLING SHALL BE WITH A WATERPROOF SHARPIE INK PEN.
34. ALL JUNCTION BOXES, IN SOFT BOULEVARD SHALL BE SUPPORTED/PROTECTED WITH A CONCRETE COLLAR. MINIMUM 200mm WIDE BY 150mm DEPTH, WITH REBAR. COLLAR TO SLOPE DOWN AWAY FROM BOX OPENING AT 3% TO DIRECT WATER AWAY FROM BOX OPENING. REFER TO COQUITLAM SUPPLEMENTAL SPECIFICATION DRAWING SS-E2.5 FOR DETAILS.
35. JUNCTION BOXES SHALL BE PROVIDED WITH RPVC SUPPORT BARS TO SUPPORT THE ELECTRICAL CONNECTIONS AND FUSE HOLDERS (IF USED). THE RPVC BARS SHALL BE ATTACHED INTO THE JUNCTION BOX SIDEWALLS. THE ELECTRICAL CONNECTIONS AND FUSE-HOLDERS WILL BE HELD IN PLACE BY TIE-WRAPS
36. JUNCTION BOXES WITH METALLIC LIDS (NEW OR EXISTING) SHALL BE BONDED WITH A NO 8 RW90 BONDING CONDUCTOR WITH A SUITABLY SIZED RING LUG, AND STAINLESS STEEL HARDWARE. THE CONTRACTOR SHALL SUPPLY A PIGTAIL SPLICE FROM THE INTERNAL BONDING CONDUCTORS TO THE METALLIC LID BOND
37. JUNCTION BOXES FOR ELECTRICAL APPLICATIONS (TRAFFIC SIGNALS, STREET LIGHTING, ETC.) - THE LIDS SHOULD BE ETCHED ELEC, JUNCTION BOXES FOR COMMUNICATIONS - THE LIDS SHOULD BE ETCHED COMM, ALL UPPERCASE LETTERS.
38. POLYMER 24 x 36 x 36 PULL BOXES SHALL BE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E2.3 C/W BOLT DOWN 2 PIECE LIDS. REPLACE 150mm FINE DRAIN ROCK WITH 300mm FINE DRAIN ROCK.
39. BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
40. WIRING CONNECTIONS, SPLICES AND FUSE-HOLDERS IN JUNCTION BOXES SHALL BE KEPT OUT OF WATER.
41. ALL CONDUITS SHALL BE PROVIDED WITH A NYLON PULL LINE. CAPS SHALL HOLD THE NYLON CORD IN PLACE.
42. EMPTY CONDUITS / CONDUITS ONLY (CO) SHALL BE PROVIDED WITH NYLON PULL STRINGS AND KEPT IN PLACE WITH UNGLUED CAPS AT EACH END
43. WATER OR OTHER OBSTRUCTIONS ARE NOT PERMITTED IN CONDUITS. CONDUITS WITH WATER OR OTHER OBSTRUCTIONS SHALL BE BLOWN CLEAR.
44. PER COQUITLAM SUBDIVISION BYLAWS, UNLESS VARIANCE IS ACCEPTED BY THE CITY THE MINIMUM SPACING BETWEEN STREET LIGHTS AND:
 - a. TREES SHALL BE 6-METERS
 - b. KIOSKS SHALL BE 3-METERS
 - c. DRIVEWAYS SHALL BE 2-METERS (EXCLUDING THE FLARE)
 - d. HYDRANTS SHALL BE 3-METERS
 - e. MANHOLES, VALVE BOXES, SERVICE CONNECTIONS SHALL BE 2-METERS
 - f. JUNCTION BOXES SHALL BE 2-METERS
45. STREET LIGHT BASE FLANGES SHALL BE LEVEL ON TWO HORIZONTAL AXIS.
46. STREET LIGHT BOLTS SHALL HAVE COLOUR-CODED NUT CAPS.

49. IT SHALL BE THE CONTRACTORS / DEVELOPERS RESPONSIBILITY TO SUBMIT THE ELECTRICAL PERMITS TO THE ASSIGNED COQUITLAM FIELD INSPECTOR. COQUITLAM TRAFFIC OPERATIONS (OR ASSIGNED) WILL INSPECT THE INSTALLATIONS AND PROVIDE A DEFICIENCY LIST (IF NECESSARY). TRAFFIC OPERATIONS WILL ISSUE A REQUEST TO HYDRO FOR CONNECTIONS.

50. DEVELOPERS ARE REQUIRED TO PAY A FLAT-RATE CHARGE TO CITY OF COQUITLAM FOR NEW BC HYDRO CONNECTION FEES. THIS DOES NOT APPLY WHERE NEW STREET LIGHTS ARE CONNECTED INTO EXISTING SERVICES.

51. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THEIR ELECTRICAL PERMIT TO THE CITY OF COQUITLAM, TRAFFIC OPERATIONS. ATTENTION: JARROD MITCHELL OR VLADAN POLEDA.

52. JUNCTION BOXES (IF USED), TOPS SHALL BE LEVEL ON 2 AXIS.

CONCRETE BASE NOTES

1. THE CONCRETE BASES SHALL BE PER MMCD 2019 STANDARDS AND PLANS. PROVIDED WITH APPROPRIATE CONDUITS PER ENGINEERING REQUIREMENTS.

2. THE CONCRETE BASE SHALL NOT BE FORMED ON SITE, AND SHALL NOT BE FORMED BY THE ELECTRICAL CONTRACTOR. THE CONCRETE BASE SHALL BE PROVIDED FROM A PRECAST COMPANY, SUCH AS AE PRECAST, ARMETEC, LANGLEY CONCRETE, ETC.

3. CONCRETE BASES FOR A SERVICE BASE:

a. STREET LIGHTING: 40 AND 60-AMPERE PANELS, CONCRETE BASE WITH 5 OR MORE RPVC CONDUITS, PER CITY OF COQUITLAM SUPPLEMENTAL PLAN SS-E7.3, UPPER DETAIL

b. TRAFFIC SIGNAL: 100-AMPERE PANELS, CONCRETE BASE WITH 2 53MM RPVC CONDUITS, PER CITY OF COQUITLAM SUPPLEMENTAL PLAN SS-E7.3, LOWER DETAIL

c. PRIOR TO SERVICE BASE INSTALLATIONS, THE CONTRACTOR SHALL ENSURE THE CONCRETE BASE IS PROPERLY ORIENTATED SUCH THAT THE SERVICE CONDUIT (SC) IS ALIGNED TO THE PROTECTED AREA WITHIN THE ELECTRICAL PANEL WITHIN THE SERVICE BASE. REFER TO COQUITLAM SUPPLEMENTAL DRAWINGS SS-E7.3 AND E7.4

d. THE CONCRETE BASE SHALL BE INSTALLED TO ENSURE THE CONCRETE BASE IS PROPERLY ALIGNED FOR THE SERVICE BASE ACCESS DOOR. PER CITY OF COQUITLAM SUPPLEMENTAL PLAN SS-E7.3, THE SERVICE BASE ACCESS DOOR SHALL BE ON THE DOWNWARD SIDE OF TRAFFIC.

e. CITY OF COQUITLAM CIVIL INSPECTOR SHALL ATTEND WHEN THE CONCRETE BASE IS TO BE INSTALLED, TO CONFIRM COMPLIANCE TO CITY OF COQUITLAM REQUIREMENT, WITH 12 HOURS ADVANCE NOTIFICATION.

4. THE CIVIL/ELECTRICAL CONTRACTOR SHALL ENSURE STREET LIGHT POLES, FIXTURES AND RELATED EQUIPMENT MEETS OR EXCEEDS BC HYDRO AND WORKSAFEBC CLEARANCE REQUIREMENTS, FOR ALL OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CITY OF COQUITLAM, AND TO THE DESIGN ENGINEERS

5. CONCRETE BASES WITH MORE THAN 2 CONDUITS SHALL BE NOTED ON THE PLANS. AS AN EXAMPLE, "THIS BASE HAS (X) CONDUITS"

6. CONCRETE BASES SHALL BE PROVIDED WITH A V-GROOVE TO DISPERSE STANDING WATER. IF A V-GROOVE IS NOT AVAILABLE, THEN FOUND FLAT STAINLESS STEEL WASHERS SHALL BE MOUNTED BETWEEN THE CONCRETE BASE AND THE BOTTOM OF THE SERVICE BASE. U-SHAPED SHIMS NOT ACCEPTABLE.

7. CONCRETE BASE TOPS SHALL BE 7-CM (~2.5-INCHES) ABOVE FINAL GRADE CONCRETE BASES SHALL BE LEVEL ON TWO HORIZONTAL AXIS

SERVICE BASE / ELECTRICAL PANEL / EARTHING ELECTRODE

1. UNLESS OTHERWISE INDICATED, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF COQUITLAM CURRENT SUBDIVISION CONTROL BYLAWS, CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAILED DRAWINGS AND CITY OF COQUITLAM APPROVED MATERIALS AND PRODUCTS LISTINGS. MMCD 2019 MAY APPLY.

2. UNLESS OTHERWISE INDICATED, THE SERVICE BASE AND ACCESS COVERS ARE TO BE GALVANIZED, PRIMED AND POWER-COATED IN COLOUR PER THE DESIGN PLANS.

a. CITY OF COQUITLAM HAS SEVERAL COLOURS: RAL6028 GREEN, RAL9005 BLACK, RAL8014 BROWN, ETC. CONSULT THE PLANS FOR SPECIFIC COLOURS.

3. THE SERVICE BASE ACCESS DOOR SHALL BE DOWNTREAM OF TRAFFIC.

4. THE SERVICE BASE SHALL BE MOUNTED ON A PREFORMED CONCRETE BASE:

a. THE CONCRETE BASE SHALL NOT BE FORMED ON SITE OR CAST-IN-PLACE, AND SHALL NOT BE FORMED BY THE ELECTRICAL CONTRACTOR. THE CONCRETE BASE SHALL BE PROVIDED FROM A PRECAST COMPANY, SUCH AS AE PRECAST, ARMETEC, LANGLEY CONCRETE, ETC.

b. THE CONCRETE BASE SHALL MEET OR EXCEED MMCD2009 SPECIFICATIONS, SECTION 34-41-13, SUBSECTION 3.3 CONCRETE BASES, PAGE 11 OF 16. PRIOR TO THE CONCRETE BASE INSTALLATION, A CERTIFICATE OF COMPLIANCE TO SUBSECTION 3.3.5 SHALL BE PROVIDED TO THE CIVIL INSPECTOR

c. STREET LIGHTING CONCRETE BASES: 40 OR 60-AMPERE PANEL (SIZE DEPENDANT ON LOADING REQUIREMENTS), CONCRETE BASE WITH 5 OR MORE RPVC CONDUITS, PER CITY OF COQUITLAM SUPPLEMENTAL PLAN SS-E7.3, UPPER DETAIL

d. TRAFFIC SIGNAL CONCRETE BASES: 100-AMPERE PANEL, CONCRETE BASE WITH ONE 35MM AND TWO 53MM RPVC CONDUITS, PER CITY OF COQUITLAM SUPPLEMENTAL PLAN SS-E7.3, LOWER DETAIL

5. THE LOCKING TAB ON THE SERVICE BASE PEDESTAL, SHALL BE OF A ROBUST DESIGN AND MANUFACTURE, AND SHALL ACCEPT A STANDARD CITY PADLOCK. A WCE BULLDOZER PRODUCT SHALL NOT BE INSTALLED.

6. THE SERVICE BASE PEDESTAL SHALL BE PROVIDED WITH TWO 3/8-16 THREADED HOLES IN THE UPPER FLANGE AND WITH MATING CLEARANCE HOLES ON THE COVER. THESE HOLES SHALL BE AT THE TOP, ONE HOLE ON EITHER SIDE OF THE LOCKING TAB. THE CONTRACTOR SHALL PROVIDE 2 EACH 3/8-16 STAINLESS STEEL BOLTS, FLAT WASHERS AND ANTI-SEIZING COMPOUND. THE CITY MAY INSTALL SECURITY BOLTS.

7. ALL THREADED BOLTS, NOT USED FOR ELECTRICAL CONNECTIONS, SHALL BE STAINLESS STEEL AND HAVE ANTI-SEIZE COMPOUND APPLIED.

8. THE SERVICE BASE COVER SHALL NOT BE A SNUG FIT INTO THE SERVICE BASE OPENING. SOME LEeway SHALL BE PROVIDED TO FIT THE LOCKING TAB AND BOLTS THROUGH THE CLEARANCE OPENINGS.

9. THE SERVICE BASE SHALL BE PROVIDED WITH A BONDING TAB. THE COLOUR-FINISHED SURFACE SURROUNDING THE BOND TAB SHALL BE GROUND OFF TO GALVANIZING OR BARE STEEL FOR THE ELECTRICAL BOND ADHERENCE. TO ENSURE A PROPER BOND AND REDUCE CORROSION OR RUSTING, THE BONDING STUD SHALL BE INSTALLED IMMEDIATELY AFTER THE GRINDING.

10. THE ELECTRICIAN SHALL PROVIDE A NO. 8 GAUGE RW90 BOND WITH A RING LUG FROM THIS TAB INTO THE ELECTRICAL PANEL ONTO THE BONDING BUSS. THE 3/8-16 BOLT SHALL CONSIST OF ONE 3/8-16 BOLT, SPLIT LOCK WASHER AND 2 HEX NUTS. THE RING TERMINAL IS SANDWICHED BETWEEN THE 2 NUTS. TIGHTEN TO SPECIFICATIONS

11. ELECTRICAL PANEL WITHIN THE SERVICE BASE SHALL BE:

a. FABRICATED FROM STAINLESS STEEL OR ALUMINUM. THE PANEL SHALL BE SET STRAIGHT, AND PARALLEL TO INTERNAL SERVICE BASE SURFACES. ALL FOUR MOUNTING TABS SHALL BE BOLTED ON TO THE UNISTRUT RAILS WITHIN THE SERVICE BASE PEDESTAL.

b. PROVIDED WITH A MAIN DISCONNECT, 2P-40A, 2P-60A, OR 2P-100A, 120/240V PER THE DESIGN PLANS. BRANCH BREAKERS ARE GENERALLY REQUIRED FOR THE 100-AMPERE PANELS.

c. THE PHOTO-ELECTRIC CONTROL (PEC) CIRCUIT FUSING SHALL PER MMCD, USE A KTK10 (10-AMPERE) FUSE (600V), AND SUITABLE FRONT PANEL MOUNTED FUSE-HOLDER PUSH-BUTTON CIRCUIT BREAKERS ARE NOT ACCEPTABLE.

d. THE PEC FUSE-HOLDER AND FUSE SHALL BE MOUNTED ON THE FRONT PANEL, NEAR THE H-O-A OR O-H-A 3-POSITION ROTARY SWITCH. THIS APPLIES TO 40A, 60A AND 100A ELECTRICAL PANELS

e. THE PEC BYPASS SWITCH SHALL BE A HEAVY-DUTY, 3-POSITION MAINTAINED, H-O-A OR O-H-A ROTARY SWITCH. TWO POSITION ROTARY SWITCH OR TOGGLE SWITCH, ARE NOT ACCEPTABLE.

f. THE FRONT PANEL PEC FUSE-HOLDER AND THE PEC BYPASS SWITCH SHALL BE PROVIDED WITH LABELS, DETAILS PER MMCD DRAWINGS

g. PROVIDED WITH AN SPD (SURGE PROTECTION DEVICE), MOUNTED WITHIN THE ELECTRICAL PANEL, AND WITH FAULT PROTECTION (CIRCUIT BREAKERS, FUSING, ETC.). DETAILED SURGE PROTECTION DEVICE SPECIFICATIONS FOLLOW.

h. PANEL SHALL BEAR ELECTRICALLY APPROVED LABELS FOR USE IN CANADA. SUCH AS CSA, ETL, CULUS, SPECIAL INSPECTIONS, ETC.

i. FOR THE 40A AND 60A ELECTRICAL PANEL, REFER TO CITY OF COQUITLAM SUPPLEMENTAL DRAWING SS-E7.5

12. SURGE PROTECTION DEVICE SPECIFICATIONS:

a. ELECTRICAL ACCREDITATIONS: CSA, ETL, CULUS, ETC.

b. SYSTEM VOLTAGE AND FREQUENCY: 120/240V, 50/60 HERTZ

c. MINIMUM DISCHARGE RATING: 20kA

d. PROVIDED WITH LED STATUS INDICATORS, VISIBLE WHEN THE SERVICE BASE OR ELECTRICAL PANEL IS REMOVED. WITHOUT THE USE OF TOOLS.

e. PREFERRED MANUFACTURERS: MERSEN AND SQUARE-D. ALL OTHERS SHALL BE PRE-APPROVED.

13. THE PEC CONDUCTORS SHALL BE #12 RW90, COLOURS: RED, BLACK AND WHITE. THE PEC CONDUCTORS SHALL BE A COMPLETE RUN, WITHOUT SPLICES, FROM THE PEC SOCKET TO THE ELECTRICAL PANEL. BUNDLED SEPARATE OF THE STREET LIGHTING CONDUCTORS.

14. THE CONTRACTOR SHALL ENSURE THE SERVICE BASE IS PROPERLY ORIENTATED SUCH THAT THE SERVICE CONDUIT (SC) IS ALIGNED TO THE PROTECTED AREA WITHIN THE ELECTRICAL PANEL.

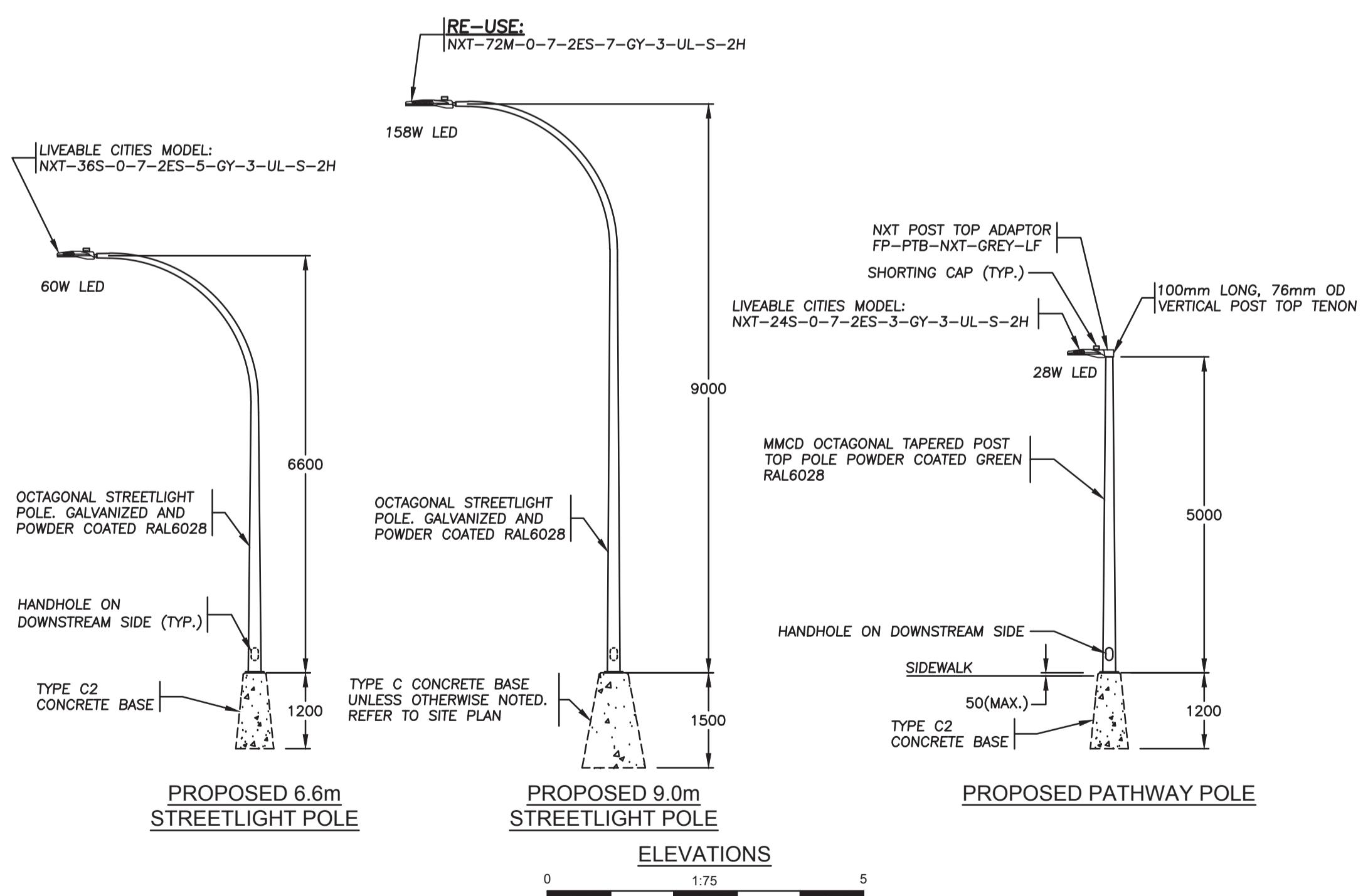
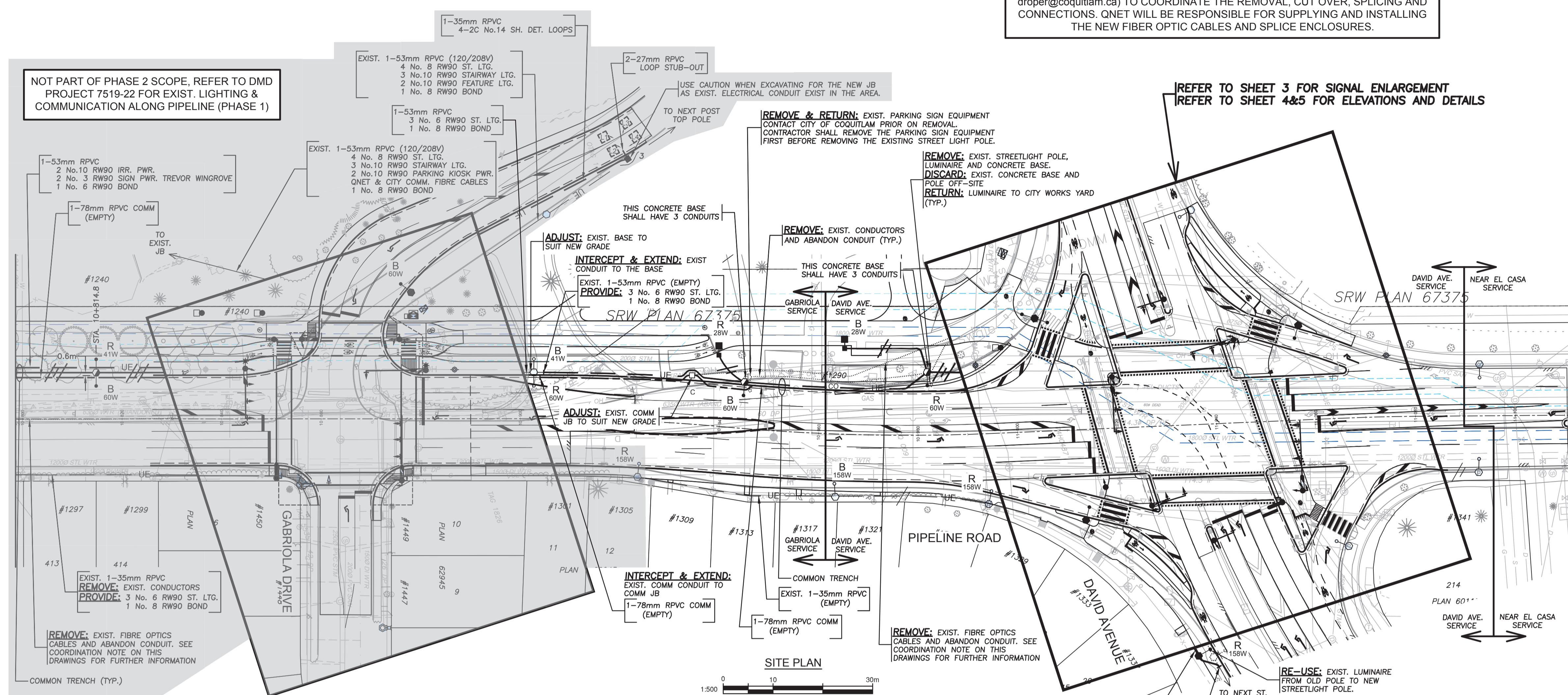
15. STREET LIGHTS MOUNTED ON A SERVICE BASE SHALL BE WIRED PER MMCD DRAWINGS. LUMINAIRE CONDUCTORS SHALL BE GROUPED TOGETHER, AND SEPARATE OF THE PEC W



COORDINATE ALL PARKING SIGN EQUIPMENTS WORKS
WITH CITY OF COQUITLAM CONTACT BRENT GALPIN
604-927-3626 BGalpin@coquitlam.ca

EXISTING FIBRE OPTIC CABLES ON PIPELINE ROAD SHALL REMAIN IN OPERATION
AND SHALL BE PROTECTED WHEN NECESSARY UNTIL THE NEW CONDUITS AND
CABLES HAVE BEEN INSTALLED. THE CONTRACTOR SHALL COORDINATE WITH
QNET AT LEAST 3 WEEKS PRIOR TO CONSTRUCTION. CONTACT BRENT GALPIN
(604-927-3626 / bgalpin@coquitlam.ca) OR DWAYNE ROPER (604-927-3605 /
droper@coquitlam.ca) TO COORDINATE THE REMOVAL, CUT OVER, SPLICING AND
CONNECTIONS. QNET WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING
THE NEW FIBER OPTIC CABLES AND SPLICING ENCLOSURES.

NOT PART OF PHASE 2 SCOPE, REFER TO DMD
PROJECT 7519-22 FOR EXIST. LIGHTING &
COMMUNICATION ALONG PIPELINE (PHASE 1)



THE DUCTING SHOWN IS DIAGRAMMATIC, SEE
CROSS-SECTION TRENCH DETAILS BELOW

TYPICAL CROSS SECTION TRENCH DETAILS
N.T.S.

CONTRACTOR SHALL ENSURE PROPOSED CONCRETE BASES ARE PROVIDED
WITH STRUCTURAL SOIL AT A MIN. OF 2m SURROUND FOR STREETLIGHTS AND
1m SURROUND FOR PEDESTRIAN LIGHTS C/W BACKFILL & COMPACTION TO
MMCD SPECIFICATIONS.

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

PERMIT TO PRACTICE
Signature:
Date: 04-12-2025
PERMIT NUMBER: 1000771
The Association of Professional Engineers
and Geoscientists of British Columbia



Design by: Date: 16-05-2018 Scale: 1:500
B.G. Drawn by: Date: 16-05-2018 Sheet of: 2 of 5
Y.J. Checked by: Date: 16-05-2018 Eng. Project No. _____
N.B. Approved by: Date: 16-05-2018

Project: PIPELINE ROAD PHASE 2
NORTH OF GABRIOLA DR TO DAVID AVE
STREET LIGHTING
Description: File: 7519B-22

NOT FOR CONSTRUCTION
2025-12-04

CAUTION!
EXCAVATION NEAR OVERHEAD UTILITY POLE
ANY UNDERGROUND EXCAVATION WITHIN SOIL FOUNDATION
INTERACTION AREA REQUIRES TEMPORARY UTILITY POLE SUPPORT.
REFER TO ES65 E3-04 GUIDE FOR CIVIL EXCAVATION NEAR
DISTRIBUTION POLES FOR DETAILS. REFER TO BC HYDRO WORK ON
WOOD POLES MANUAL (ON SAFEHUB) AND BC HYDRO 2017-1 F-POLE
HOLDING REQUIREMENTS FOR APPROVED TEMPORARY POLE
SUPPORT METHODS. FOR MORE INFORMATION CONTACT
workmethods@bchydro.com

LOCATING EQUIPMENT
FOR CLARITY CONDUITS, JUNCTION BOXES AND STREETLIGHT
POLES MAY NOT BE SHOWN AT DESIGN OFFSETS. CONTRACTOR
SHALL LOCATE ALL EQUIPMENT BASED ON STATIONS AND/OR
OFFSETS AS NOTED AND SHALL NOT RELY ON COORDINATES
OBTAINED FROM DMD DIGITAL DRAWINGS. CONTRACTOR TO
REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD &
ASSOCIATES PRIOR TO ORDERING EQUIPMENT.

CHECK BEFORE YOU DIG
CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN
DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND
DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE
DETERMINED ON SITE BY THE CONTRACTOR. CONTRACTOR TO
REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD &
ASSOCIATES PRIOR TO ORDERING BASES.

OVERHEAD POWER LINE CONFLICTS
CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION
THAT POLES & EQUIPMENT WILL MEET WorkSafeBC CLEARANCE
REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES.
CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES
TO DMD & ASSOCIATES PRIOR TO ORDERING POLES
AND INSTALLING CONCRETE BASES.

EXISTING STREET LIGHTING SHALL REMAIN IN
OPERATION THROUGHOUT CONSTRUCTION, IF
TRAFFIC SIGNAL DE-ENERGIZATION IS REQUIRED
CONTRACTOR SHALL ENSURE FULL-TIME FLAGGING IS
USED DURING ANY TRAFFIC SIGNAL DOWNTIME.



CO. ASBUILT No.
EXXXX

Benchmark:

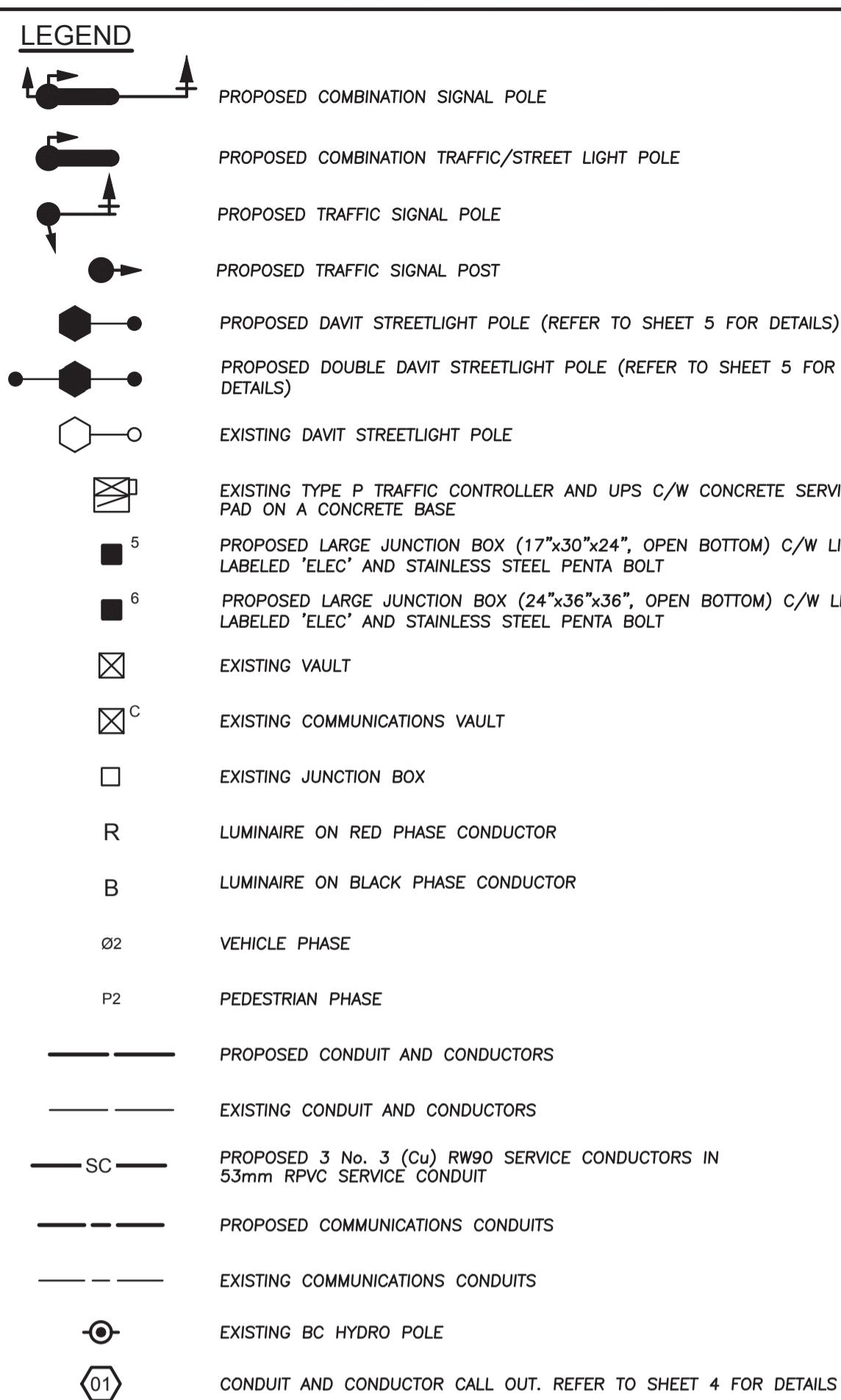
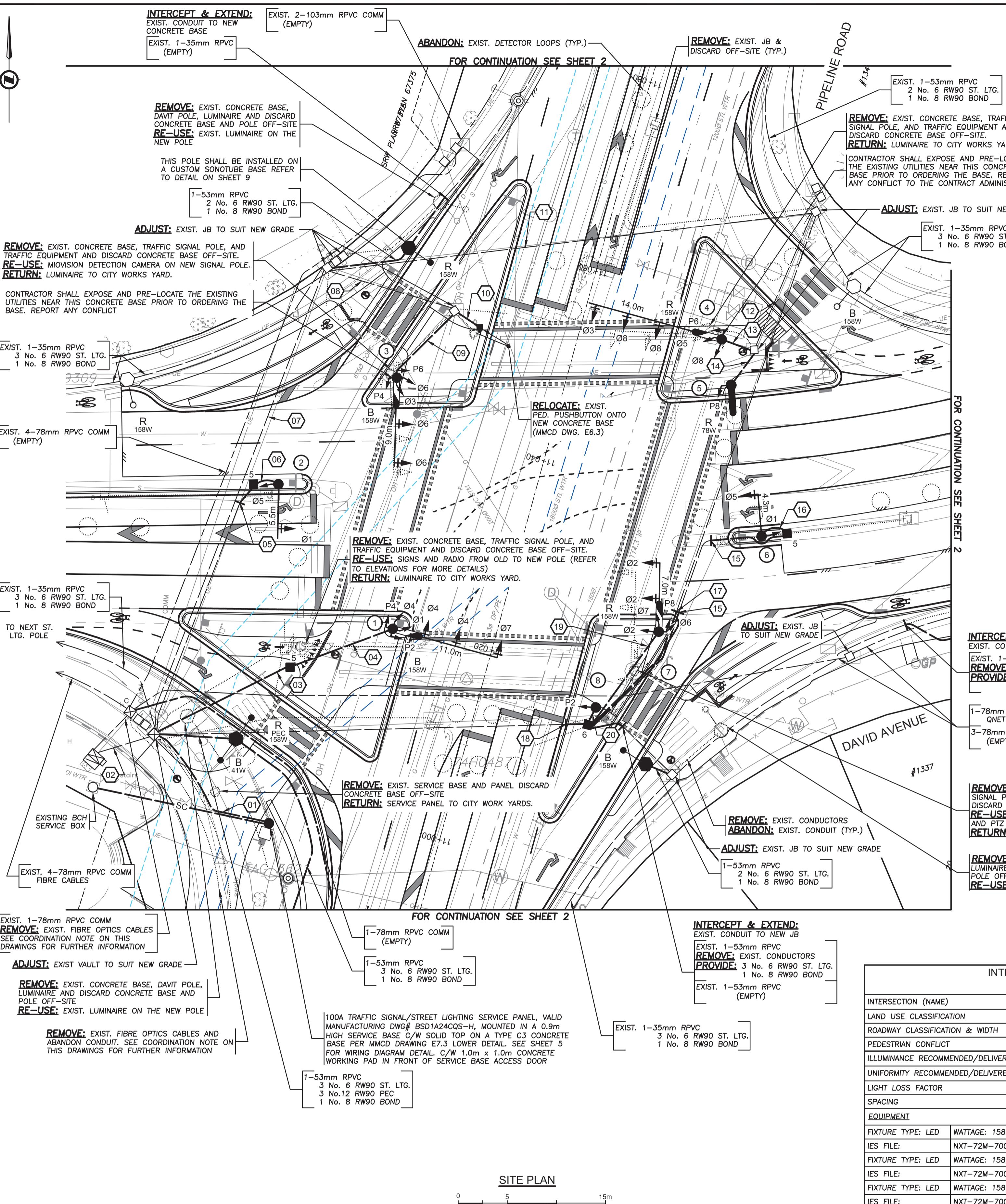


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604/589-9012 office@dmdeng.com
DMD PROJECT No. 7519B-22-02 of 05

04-12-2025	B.G.	ISSUED FOR TENDER
24-11-2025	B.G.	DETAILED SUBMISSION
No.	Date	By Revisions

ACCEPTED FOR
CONSTRUCTION
Date: _____
Manager of
Development Servicing

Signature:
Date: 04-12-2025
PERMIT NUMBER: 1000771
The Association of Professional Engineers
and Geoscientists of British Columbia



TRAFFIC SIGNAL NOTES

- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE (IN ORDER OF PRECEDENCE) WITH THE SUPPLEMENTAL SPECIFICATIONS, MASTER MUNICIPAL CONSTRUCTION DOCUMENT, 2019 ISSUE AND THE CURRENT MOTH STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS.
- CONDUCTORS INSIDE POLES SHALL BE: No. 14 RW90 X-LINK FOR SIGNALS No. 12 RW90 X-LINK FOR ALL OTHERS
- A TRON HEB AA WEATHERPROOF FUSE HOLDER, C/W A 10A BUSS KTK FUSE AND 2 'L' TYPE INSULATING BOOTS, SHALL BE INSTALLED IN EACH LUMINAIRE & SIGN LIVE CONDUCTOR, IN THE HANDBOLE.
- EXACT POSITION OF ALL EQUIPMENT WILL BE LAYED OUT BY THE CITY REPRESENTATIVE.
- ALL SINGLE CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOR CODED.
- EMPTY CONDUITS SHALL HAVE A No.8 HD POLY YELLOW/GRN MK PULL STRING AND CAPPED AT BOTH ENDS AS PER COQUITLAM SUPPLEMENTARY DRAWING SS-E2.5
- WHERE INDIVIDUAL CONDUCTORS OR CABLES ARE RUN, ALL OF THE COMMON CIRCUITS SHALL BE BUNDLED, TY-RAPPED TOGETHER WITH IDENTIFICATION TAGS, JUNCTION BOXES, VAULTS, HAND HOLES, CONTROLLER AND ACCESS POINTS AS NOTED IN THE MMCD. TAGS SHALL BE MARKED AS FOLLOWS: CABLE N/A, POLE, STREET LIGHTING, COTS P, COTS CONTROLLER POWER, WITH BLACK INDELIBLE MARKING PEN. TAGS TO BE ATTACHED NO FURTHER THAN 75mm FROM WIRE OR CABLE TERMINATION POINT.
- TRAFFIC SIGNAL NEUTRALS SHALL BE KEPT SEPARATE FROM STREET LIGHTING NEUTRAL CONDUCTORS.
- ALL SIGNAL HEADS AND LUMINAIRES SHALL BE BONDED WITH NO.12 RW90 CONDUCTOR (GREEN) AT THE HANDBOLE, AS REQUIRED.
- ALL EQUIPMENT MODELS SPECIFIED SHALL BE CONFIRMED WITH THE CITY IMMEDIATELY PRIOR TO THEIR PURCHASE TO ENSURE THAT THEY ARE CORRECT AND CURRENT. CUT SHEETS, EQUIPMENT, MAKE, MODEL & SERIAL LIST TO BE PROVIDED FOR EACH SIGNAL LOCATION.
- CONTRACTOR SHALL CONFIRM EXACT SERVICE LOCATIONS WITH B.C. HYDRO PRIOR TO CONSTRUCTION.
- CONTRACTOR IS REQUIRED TO PROVIDE 72 HOURS NOTICE PRIOR TO ANY CONSTRUCTION.
- TRAFFIC CONTROL IS REQUIRED TO CITY STANDARDS. (M.o.T.)
- ALL POLES, ARMS, SERVICE BASES, ETC. TO BE GALVANIZED, PRIMED AND POWDER-COATED IN COLOUR, EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN RAL 6028, UNLESS OTHERWISE NOTED OR APPROVED.
- INSTALL BELL END FITTING ON ALL CONDUITS ENTERING JUNCTION BOXES.
- INSTALL HANGER BAR & TY-RAP WIRES TO BAR IN JUNCTION BOXES AS PER MMCD DRAWING COQUITLAM SUPPLEMENTARY DRAWING SS-E2.5
- ALL CONDUITS SHALL BE BURIED MINIMUM 600mm DEEP. A 'BURIED CABLE' MAKER TAPE SHALL BE INSTALLED 300mm ABOVE CONDUIT IN ALL TRENCHES. DETECTABLE (METALIC) TAPE TO BE USED ABOVE CONDUIT IN TRENCHES CONTAINING ONLY INTERCONNECT CONDUIT.
- BOND ALL STEEL JUNCTION BOX LIDS.
- CONTRACTOR SHALL REPLACE ALL ASPHALT, CONCRETE SIDEWALKS AND WHEELCHAIR RAMPS REMOVED FOR THE INSTALLATION OF THE SIGNAL AND COMM EQUIPMENT, AND RESTORE TO THE SAME OR BETTER CONDITION.
- BACKBOARDS WITH PLUMBIZER GAPS OR KNOCKOUT SECTIONS WILL NOT BE ACCEPTED FOR ANY HEAD MOUNTED WITH OTHER THAN PLUMBIZER STYLE HARDWARE.
- ALL ELECTRICAL PRODUCTS SHALL BEAR CSA/ETC APPROVALS OR BC ELECTRICAL INSPECTION PRIOR TO INSTALLATION.
- SIGNAL WIRING SHALL BE TAGGED AND LABELED USING PANDUIT MP250-C TAGS AND THE APPROPRIATE PANDUIT INDELIBLE MARKER.
- SECURITY HARDWARE TO BE USED ON ALL POLES, SECURITY BITS ARE TO BE SUBMITTED TO THE CITY AFTER SIGNAL HAS BEEN FULLY COMPLETED.
- ALL GROUND PLATES AND GROUND PLATE CONDUCTORS ARE TO HAVE A MINIMUM OF 5 METERS CLEARANCE BETWEEN THEM.
- CONCRETE VAULTS AND JUNCTION BOXES LOCATED IN NON-PAVED OR NON-SIDEWALK AREAS ARE TO BE PROTECTED FROM MOWER OR EROSION/VEGETATION DAMAGE WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP EDGES OF THE TOP OF THE BOX LID COLLAR TO SLOPE DOWN AWAY FROM BOX OPENING AT 3% TO DIRECT WATER AWAY FROM BOX OPENING. REFER TO COQUITLAM SUPPLEMENTARY SPECIFICATION FOR DETAILS.
- JUNCTION BOXES IN SIDEWALK AREAS SHALL BE SUPPORTED BY CONCRETE MATERIALS ON ALL SIDES WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP OF SIDEWALK AND THE TOP OF THE BOX LID.
- JUNCTION BOXES FOR ELECTRICAL APPLICATIONS (TRAFFIC SIGNALS, STREET LIGHTING, ETC.) - THE LIDS SHOULD BE ETCHED ELEC, JUNCTION BOXES FOR COMMUNICATIONS - THE LIDS SHOULD BE ETCHED COMM, ALL UPPERCASE LETTERS.
- POLYMER CONCRETE 24 x 36 x 36 PULL BOXES SHALL BE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E2.5 C/W BOLT DOWN LID. REPLACE 300mm COARSE DRAIN ROCK WITH 300mm FINE DRAIN ROCK.
- BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTION SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
- ALL BOLT DOWN JUNCTION BOX LIDS SHALL BE TIER 15 (20k) RATED.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL THE EMTRAC ANTENNA BRACKET WITH NEOPRENE GASKET MATERIAL TO FORM A SEAL BETWEEN BRACKET AND POLE. NEOPRENE SHALL BE FULLY ENCLOSED WITHIN OUTER EDGES OF THE BRACKET SUCH THAT NONE IS VISIBLE AFTER THE BRACKET IS MOUNTED. EMTRAC ANTENNA CABLE SHALL RUN CONTINUOUS WITH NO SPLICES FROM CONTROLLER TO THE EMTRAC ANTENNA. TERMINATION OF CABLE TO BE DONE BY COBRA ELECTRIC.

NOT FOR CONSTRUCTION

2025-12-04

THE CONTRACTOR SHALL PROVIDE PHOTOGRAPHIC EVIDENCE SHOWING THE INSTALLED DEPTH OF THE GROUND PLATE / ROD WITH RESPECT TO FINISHED GRADE AND DISTANCE FROM THE CONCRETE BASE AS DETAILED IN THE MMCD.

EXISTING STREET LIGHTING SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION. IF TRAFFIC SIGNAL DE-ENERGIZATION IS REQUIRED CONTRACTOR SHALL ENSURE FULL-TIME FLAGGING IS USED DURING ANY TRAFFIC SIGNAL DOWNTIME.

EXISTING FIBRE OPTIC CABLES ON PIPELINE ROAD SHALL REMAIN IN OPERATION AND SHALL BE PROTECTED WHEN NECESSARY UNTIL THE NEW CONDUITS AND CABLES HAVE BEEN INSTALLED. THE CONTRACTOR SHALL COORDINATE WITH QNET AT LEAST 3 WEEKS PRIOR TO CONSTRUCTION. CONTACT BRENT GALPIN (604-927-3626 / bgalpin@coquitlam.ca) OR DWAINA ROPER (604-927-3605 / droper@coquitlam.ca) TO COORDINATE THE REMOVAL, CUT OVER, SPLICING AND CONNECTIONS. QNET WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING THE NEW FIBER OPTIC CABLES AND SPLICING ENCLOSURES.

DO NOT USE THIS DRAWING FOR PAVEMENT MARKINGS

ALL JUNCTION BOX LOCATIONS AND CONDUIT ROUTING ARE DIAGRAMMATIC AND ARE NOT TO SCALE. CONTRACTOR TO AVOID UNDERGROUND CONFLICTS AND NOT INSTALL ANYTHING ON PRIVATE PROPERTY.



CO. ASBUILT No. EXXXX

INTERSECTION DESIGN CRITERIA PER: (CITY BYLAW 3558)

INTERSECTION (NAME)	PIPELINE ROAD	DAVID AVENUE
LAND USE CLASSIFICATION	RESIDENTIAL	RESIDENTIAL
ROADWAY CLASSIFICATION & WIDTH	ARTERIAL	ARTERIAL
PEDESTRIAN CONFLICT	MEDIUM	MEDIUM
ILLUMINANCE RECOMMENDED/DELIVERED	26.0 LUX	30.2 LUX
UNIFORMITY RECOMMENDED/DELIVERED	3.0:1	2.0:1
LIGHT LOSS FACTOR	0.84	
SPACING	AS SHOWN	
EQUIPMENT		
Fixture Type: LED Wattage: 158W	MTG. HEIGHT: 9.5m	DIST TYPE: 4AH
IES FILE: NXT-72M-700mA-4AH-4000K	MODEL: NXT-72M- SERIES	
Fixture Type: LED Wattage: 158W	MTG. HEIGHT: 9.0m	DIST TYPE: 2ES
IES FILE: NXT-72M-700mA-2ES-4000K	MODEL: NXT-72M- SERIES	
Fixture Type: LED Wattage: 158W	MTG. HEIGHT: 7.5m	DIST TYPE: 4AH
IES FILE: NXT-72M-700mA-4AH-4000K	MODEL: NXT-72M- SERIES	
Fixture Type: LED Wattage: 78W	MTG. HEIGHT: 9.0m	DIST TYPE: 2ES
IES FILE: NXT-72M-350mA-2ES-4000K	MODEL: NXT-72M- SERIES	

* BASE ON A 20-YEAR FIXTURE LIFE AND 10-YEAR CLEANING CYCLE

CHECK BEFORE YOU DIG
CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR.

CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING BASES.

OVERHEAD POWER LINE CONFLICTS
CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION THAT POLES & EQUIPMENT WILL MEET WorkSafeBC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING POLES AND INSTALLING CONCRETE BASES.

Benchmark:



DMD & Associates
Electrical Consultants Ltd.
112-1700 104 Avenue, Surrey, BC, Canada V3X 5A0
www.dmdeng.com
604/589-9010
Fax 604/589-9012
DMD PROJECT No. 7519B-22-03 of 05

Accepted for Construction Date:	04-12-2025	BG	ISSUED FOR TENDER
Manager of Development Servicing	24-11-2025	BG	DETAILED SUBMISSION
No.	Date	By	Revisions



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

Permit to Practice Signature:	04-12-2025
Date:	04-12-2025
Permit Number:	1000771
The Association of Professional Engineers and Geoscientists of British Columbia	

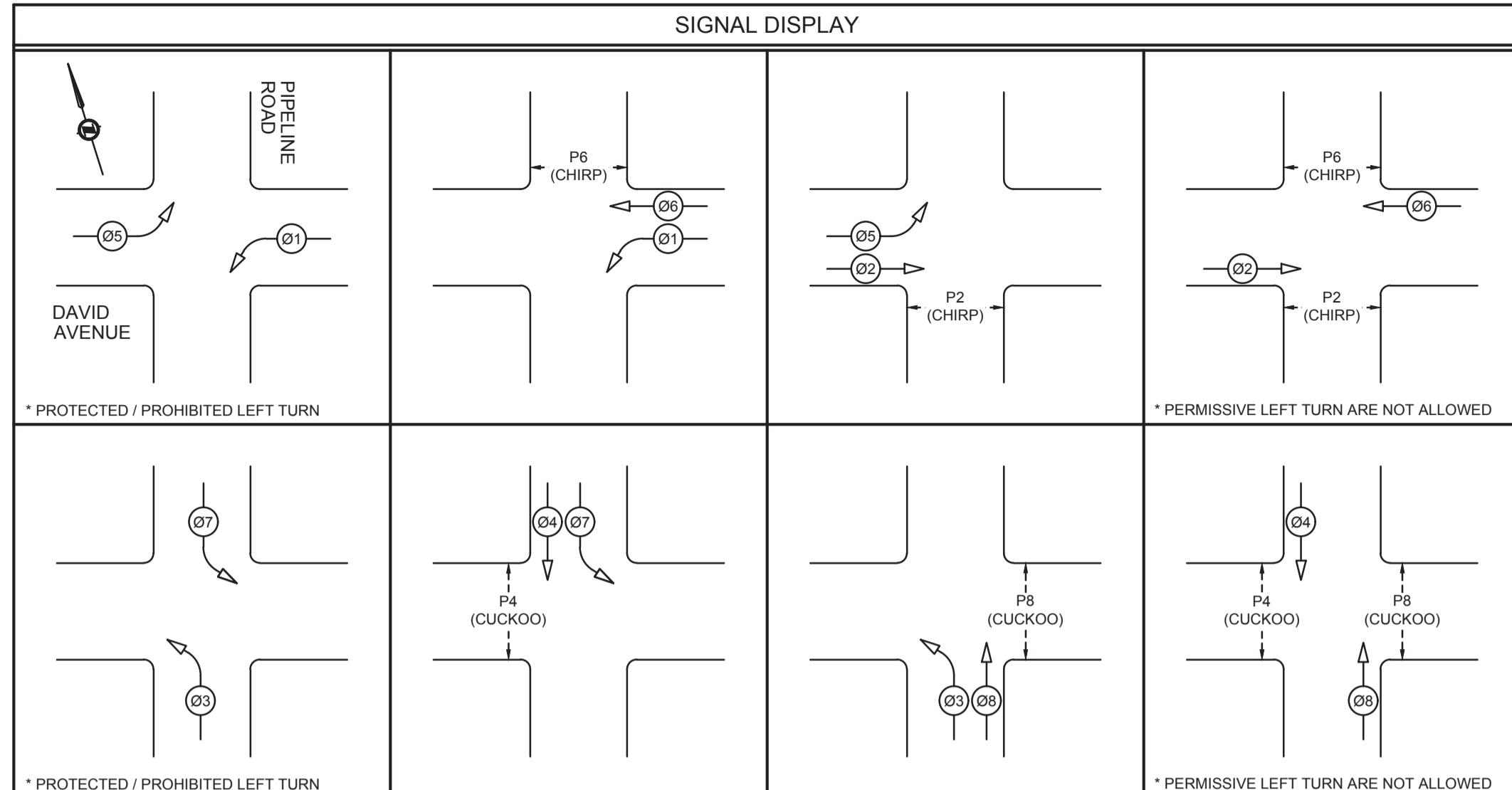


Design by BG	Date 16-05-2018	Scale 1:250
Drawn by YJ	Date 16-05-2018	Sheet of 3 of 5
Checked by NB	Date 16-05-2018	Eng. Project No.
Approved by	Date 16-05-2018	

Project PIPELINE ROAD DAVID AVENUE
Description TRAFFIC SIGNAL MODIFICATIONS
File: 7519B-22-TS

01	1-53mm RPVC 3 No. 4 RW90 ST. LTG. 2 No. 6 RW90 UPS PWR. 3 No. 12 RW90 PEC 1 No. 8 RW90 BOND 2-53mm RPVC (EMPTY)	EXIST. 1-78mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-19C SIGNAL CABLE POLE 4 1 No. 8 RW90 BOND
02	EXIST. 1-78mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-19C SIGNAL CABLE POLE 3 1-7C SIGNAL CABLE POLE 4 1-7C SIGNAL CABLE POLE 2 1 No. 8 RW90 BOND EXIST. 1-78mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-19C SIGNAL CABLE POLE 1 1-19C SIGNAL CABLE POLE 7 1-7C SIGNAL CABLE POLE 6 1 No. 8 RW90 BOND EXIST. 1-78mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 2-MIOVISION TRAFFIC LINK CABLE POLE 3, POLE 7 1 EMTRAC ANTENNA CABLE 2 No. 14 UPS "ON BATTERY POWER" 1 CAT5E RADIO ANTENNA CABLE 1 CAT6 CABLE (TERIS BLUETOAD) 2 No. 6 RW90 UPS PWR. 1 No. 8 RW90 BOND EXIST. 1-78mm RPVC REMOVE: EXIST. CONDUCTORS (EMPTY)	EXIST. 1-78mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-19C SIGNAL CABLE POLE 4 1-7C SIGNAL CABLE POLE 5 1 No. 8 RW90 BOND 1-53mm RPVC 1-7C SIGNAL CABLE POLE 5 2 No. 6 RW90 ST. LTG. 1 No. 8 RW90 BOND 1-53mm RPVC (EMPTY)
03	1-53mm RPVC 1-19C SIGNAL CABLE POLE 1 1-EMTRAC ANTENNA CABLE 1 CAT5E RADIO ANTENNA CABLE 1 No. 8 RW90 BOND 1-53mm RPVC 2 No. 6 RW90 ST. LTG. 2 No. 14 UPS "ON BATTERY POWER" 1 CAT6 CABLE (TERIS BLUETOAD) 1 No. 8 RW90 BOND 1-53mm RPVC (EMPTY)	INTERCEPT & EXTEND: EXIST. CONDUIT TO NEW JB EXIST. 1-53mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-7C SIGNAL CABLE POLE 6 1 No. 8 RW90 BOND
04	1-53mm RPVC 1-19C SIGNAL CABLE POLE 1 1 EMTRAC ANTENNA CABLE 1 CAT5E RADIO ANTENNA CABLE 1 No. 8 RW90 BOND 1-53mm RPVC 2 No. 6 RW90 ST. LTG. 2 No. 14 UPS "ON BATTERY POWER" 1 No. 8 RW90 BOND	INTERCEPT & EXTEND: EXIST. CONDUIT TO NEW JB EXIST. 1-53mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-19C SIGNAL CABLE POLE 7 1-7C SIGNAL CABLE POLE 6 1 No. 8 RW90 BOND
05	INTERCEPT & EXTEND: EXIST. CONDUIT TO NEW JB 1-53mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-7C SIGNAL CABLE POLE 2 1 No. 8 RW90 BOND	EXIST. 1-53mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-7C SIGNAL CABLE POLE 7 1 CAT5E ETHERNET PTZ. CABLE 1 No. 8 RW90 BOND
06	1-53mm RPVC 1-7C SIGNAL CABLE POLE 2 1 No. 8 RW90 BOND 1-53mm RPVC (EMPTY)	1-53mm RPVC 1-7C SIGNAL CABLE POLE 8 1 No. 8 RW90 BOND
07	EXIST. 1-78mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-19C SIGNAL CABLE POLE 3 1-19C SIGNAL CABLE POLE 4 1-MIOVISION TRAFFIC LINK CABLE POLE 3 1 No. 8 RW90 BOND	1-53mm RPVC 1-7C SIGNAL CABLE POLE 8 1 No. 8 RW90 BOND 1-53mm RPVC (EMPTY)
08	EXIST. 1-78mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-19C SIGNAL CABLE POLE 3 1-MIOVISION TRAFFIC LINK CABLE POLE 3 1 No. 8 RW90 BOND	EXIST. 1-53mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 2 No. 6 RW90 ST. LTG. 1 No. 8 RW90 BOND
09	1-53mm RPVC 1-19C SIGNAL CABLE POLE 3 1-MIOVISION TRAFFIC LINK CABLE POLE 3 1 No. 8 RW90 BOND	1-53mm RPVC 2 No. 6 RW90 ST. LTG. 2 No. 14 RW90 ppb-P6 1 No. 8 RW90 BOND
10	1-53mm RPVC 2 No. 14 RW90 ppb-P6 1 No. 8 RW90 BOND	EXIST. 1-53mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 1-19C SIGNAL CABLE POLE 4 1 No. 8 RW90 BOND
11	EXIST. 1-53mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 3 No. 4 RW90 ST. LTG. 1 No. 8 RW90 BOND EXIST. 1-53mm RPVC REMOVE: EXIST. CONDUCTORS (EMPTY)	EXIST. 1-53mm RPVC REMOVE: EXIST. CONDUCTORS PROVIDE: 3 No. 4 RW90 ST. LTG. 1 No. 8 RW90 BOND EXIST. 1-53mm RPVC REMOVE: EXIST. CONDUCTORS (EMPTY)

120V SERVICE LOAD (100A-120/240V SERVICE BASE AT DAVID AVE AND PIPELINE RD)						
WATTAGE (W)	CCT.PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT(A)
28W	R	0	0	0	0	0.23A
	B	0	0	1	1	0.00A
41W	R	0	0	1	1	0.34A
	B	0	0	0	0	0.00A
60W	R	0	0	1	1	0.50A
	B	0	0	0	0	0.00A
78W	R	10	0	1	11	7.15A
	B	9	0	0	9	5.85A
92W	R	2	0	0	2	1.53A
	B	2	0	0	2	1.53A
158W	R	11	1	0	10	13.17A
	B	12	1	0	11	14.48A
2.74% VOLTAGE DROP						

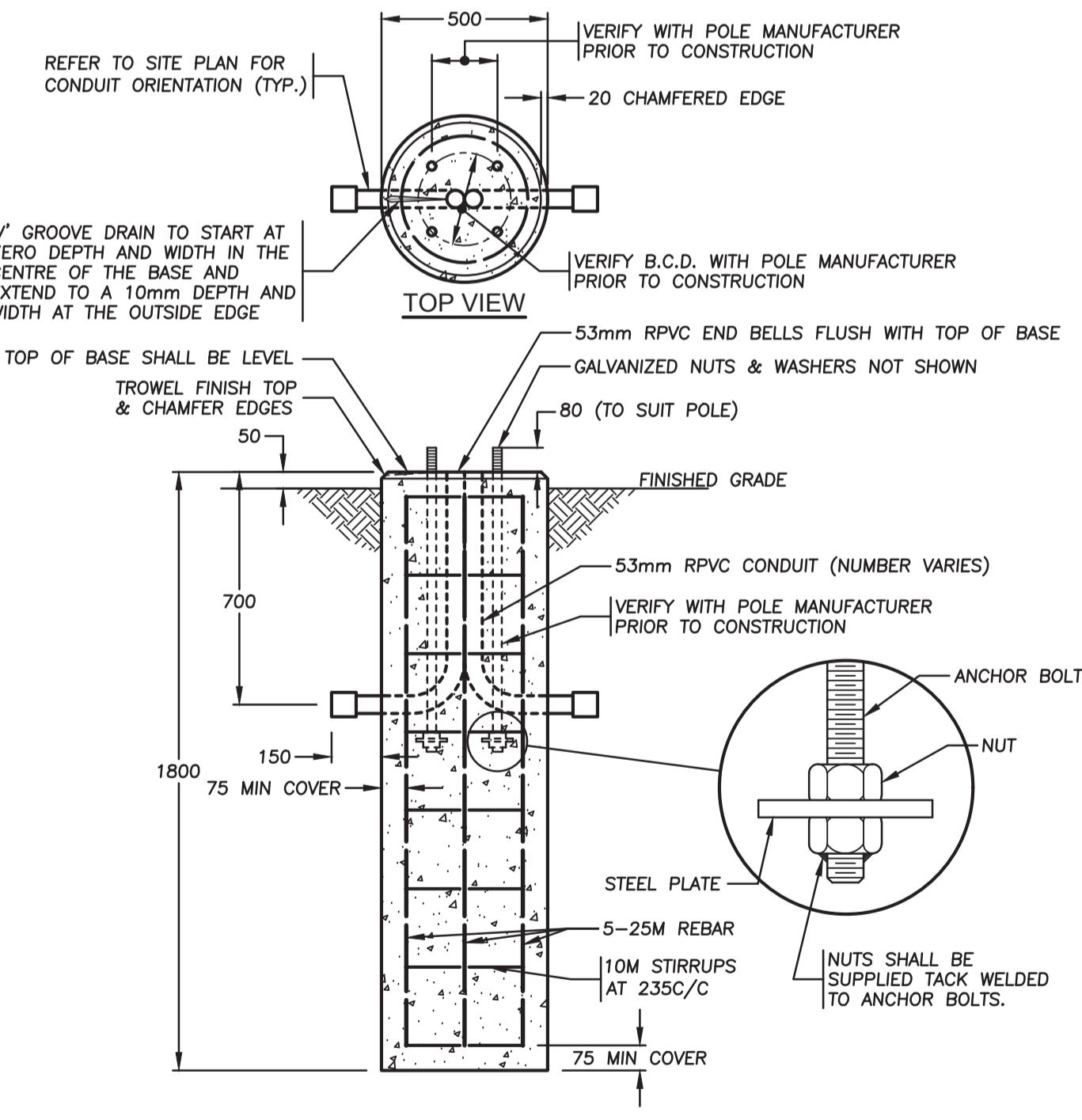


CONDUCTOR COLOUR CODE (FROM HANDLINE TO SIGNAL)		
ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
#1	RED YELLOW GREEN ARROW	RED (BLUE T.T.) YELLOW (RED T.T.) BLUE (WHITE T.T.)
#2	RED YELLOW GREEN	RED YELLOW BLUE
#3	RED YELLOW GREEN ARROW	RED (BLUE T.T.) BROWN (ORANGE T.T.) BLUE (WHITE T.T.)
#4	RED YELLOW GREEN	RED BROWN BLUE
#5	RED YELLOW GREEN ARROW	RED (BLUE T.T.) YELLOW BLUE (WHITE T.T.)
#6	RED YELLOW GREEN	RED YELLOW RED T.T.) BLUE
#7	RED YELLOW GREEN ARROW	RED (BLUE T.T.) BROWN BLUE (WHITE T.T.)
#8	RED YELLOW GREEN	RED BROWN (ORANGE T.T.) BLUE
P2	DON'T WALK WALK PUSHBUTTON	YELLOW BLUE PURPLE/PURPLE (YELLOW T.T.)
P4	DON'T WALK WALK PUSHBUTTON	BROWN BLUE PURPLE/PURPLE (BROWN T.T.)
P6	DON'T WALK WALK PUSHBUTTON	YELLOW (RED T.T.) BLUE PURPLE/PURPLE (RED T.T.)
P8	DON'T WALK WALK PUSHBUTTON	BROWN (ORANGE T.T.) BLUE PURPLE/PURPLE (ORANGE T.T.)
ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
SIGNAL NEUTRAL	NEUTRAL	WHITE
CONTROLLER/UPS	POWER	BLACK
STREET LIGHTING	POWER	BLACK RED
PANEL SUPPLY	POWER	BLACK RED
PHOTOCELL	POWER	BLACK
NEUTRAL	NEUTRAL	WHITE
GROUND/BOND	GROUND/BOND	GREEN

NOTE: T.T. DENOTES TAPE TRACER.

NOT FOR CONSTRUCTION

2025-12-04



SONOTUBE CONCRETE BASE DETAIL
N.T.S.



1-800-474-6886
or by CELLULAR 604-589-9110
Vancouver Area 257-9110
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. ASBUILT No.
EXXXX

Benchmark:
Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

DMD
DMD & Associates
Electrical Consultants Ltd.

#12-17030 104 Avenue, Surrey, BC, Canada V3N 0A0
www.dmdeng.com
604/589-9012
Fax 604/589-9012
DMD PROJECT No. 7519B-22-04 of 05

ACCEPTED FOR CONSTRUCTION
Date: 04-12-2025 BG ISSUED FOR TENDER
24-11-2025 BG DETAILED SUBMISSION
No. Date By | Revisions

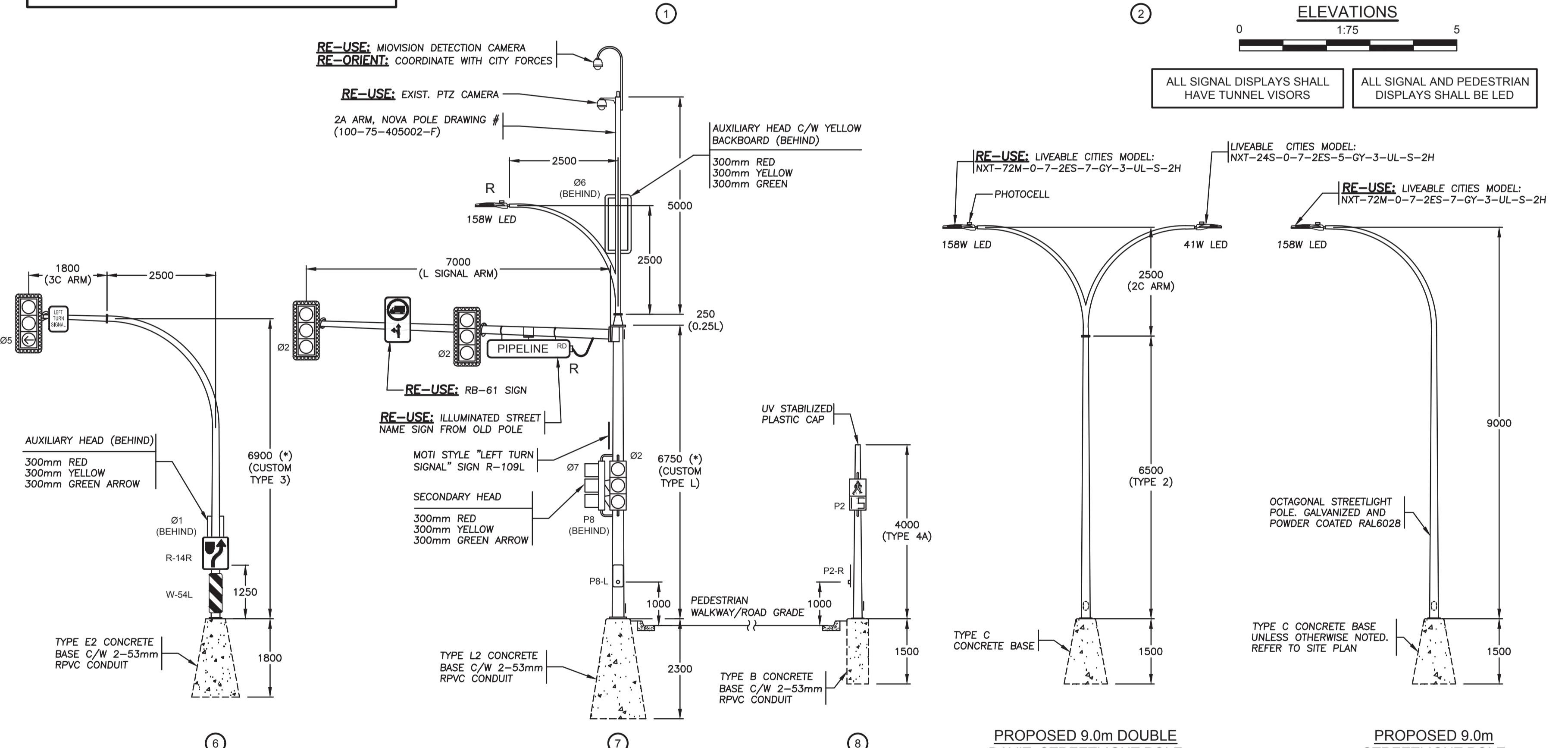
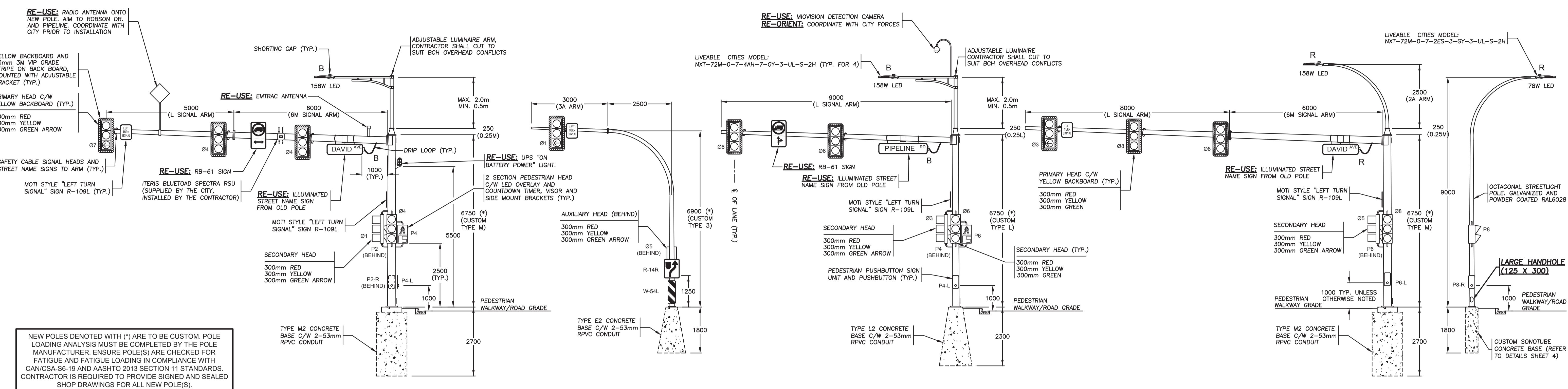
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2
Manager of Development Servicing

PERMIT TO PRACTICE
Signature:
Date: 04-12-2025
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal:
2025-12-04
N. W. DENT
DMD ENGINEERS LTD.

Design by BG Date 16-05-2018 Scale -
Drawn by YJ Date 16-05-2018 Sheet of 4 of 5
Checked by NB Date 16-05-2018 Eng. Project No.
Approved by Date 16-05-2018

Project PIPELINE ROAD DAVID AVENUE
Description TRAFFIC SIGNAL MODIFICATIONS
File: 7519B-22-TS



THE CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING MATERIALS.
REFER TO THE CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCT LIST
AND CONTACT BERNARD TUNG 604-927-6257 AT THE CITY OF COQUITLAM
TRAFFIC DEPARTMENT FOR SPECIFIC MATERIAL DETAILS PRIOR TO ORDERING:

1) POLARA NAVIGATOR iDS2 SYSTEM

CONTRACTOR SHALL HIRE COBRA ELECTRIC TO COMPLETE THE EMTRAC CABLE TERMINATION. ALL COSTS SHALL BE BORN BY THE CITY

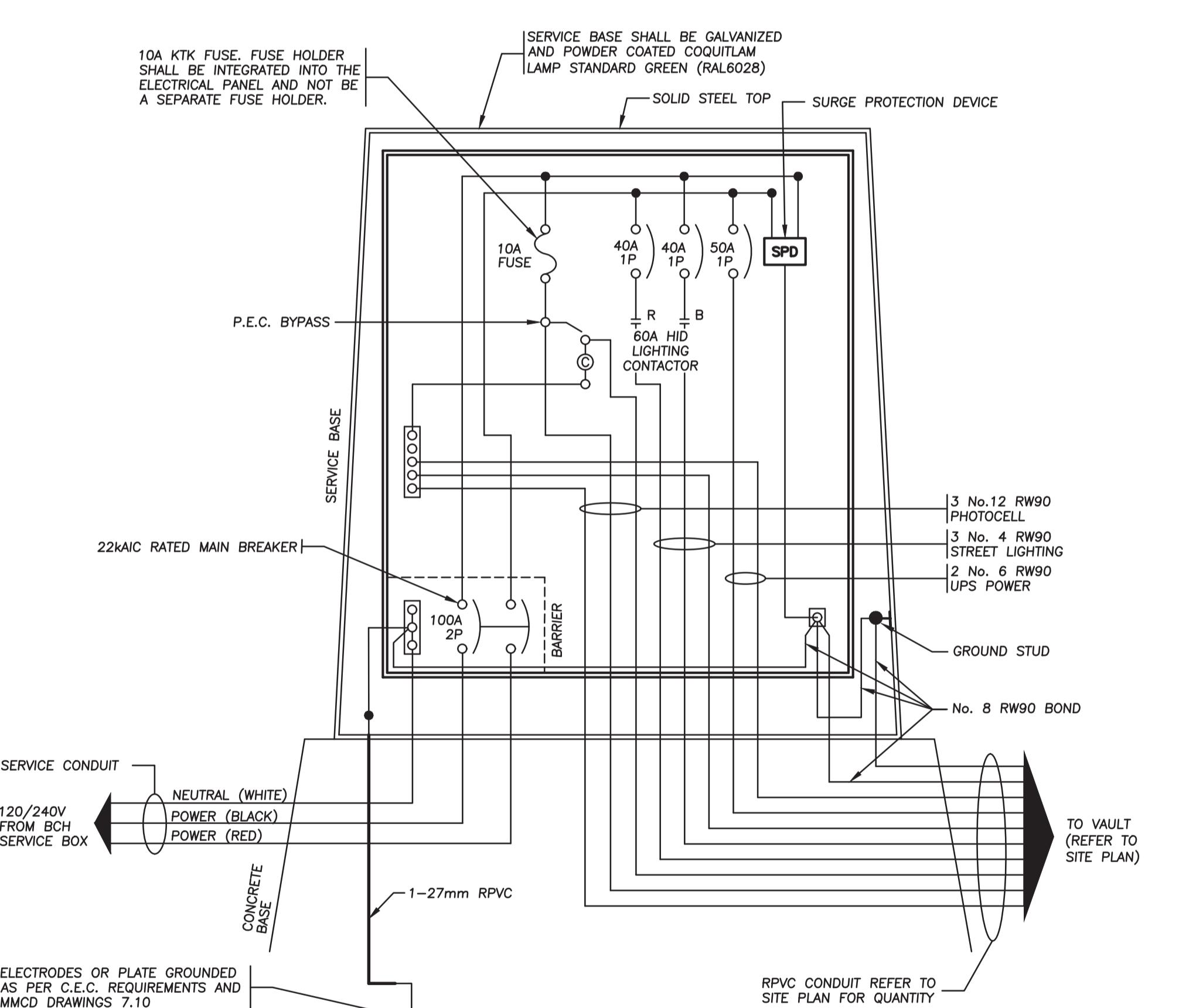
R TO CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCTS LIST FOR ALL EQUIPMENT DETAIL

THE CONTRACTOR SHALL COORDINATE ALL TERMINATION IN
THE TRAFFIC CONTROLLER WITH THE CITY

THE CITY OF COQUITLAM SHALL BE RESPONSIBLE FOR
PROGRAMMING CHANGES TO THE TRAFFIC SIGNAL INCLUDING
THE VIDEO DETECTION SYSTEM.
CONTRACTOR SHALL PROVIDE THE CITY 3 WEEKS NOTICE IN
ADVANCE OF WORK BEING REQUIRED.
ALL COST RELATED TO THIS WORK WILL BE BORNE BY THE CITY.

CONTRACTOR SHALL OBTAIN A COPY OF THE CITY OF COQUITLAM TRAFFIC SIGNAL AND ROADWAY SUPPLEMENTAL SPECIFICATIONS PRIOR TO CONSTRUCTION.

NOT FOR CONSTRUCTION
2025.12.04



PROPOSED 9.0m DOUBLE
DAVIT STREETLIGHT POLE

**PROPOSED 9.0m
STREETLIGHT POLE**

ELECTRODES OR PLATE GROUNDED
AS PER C.E.C. REQUIREMENTS AND
MMRD DRAWINGS 7-12

WIRING DIAGRAM

**CALL
BEFORE
'YOU DIG!'**

474-6886
1-800-688-6666
257-1940



COQ. ASBUILT No. **EVVVV**

ROAD VENUE SIGNAL MODIFICATIONS

04-12-2025 BG ISSUED FOR TENDER 24-11-2025 BG DETAILED SUBMISSION			ACCEPTED FOR CONSTRUCTION Date: _____		

The logo for Coquitlam Engineering & Public Works. It features the word "Coquitlam" in a large, bold, blue, sans-serif font. The letter "Q" is stylized with a green swoosh underneath it, and the letter "u" is also green. Below the main text, the words "Engineering & Public Works" are written in a smaller, black, sans-serif font. The entire logo is set against a white background with a black border around the entire image.

PERMIT TO PRACTICE		Seal: _____
Signature: _____		
Date: _____		04-12-2025
PERMIT NUMBER: 1000771		
The Association of Professional Engineers		

Design by BG	Date 16-05-2018
Drawn by YJ	Date 16-05-2018
Checked by NB	Date 16-05-2018
Approved by _____	Date _____

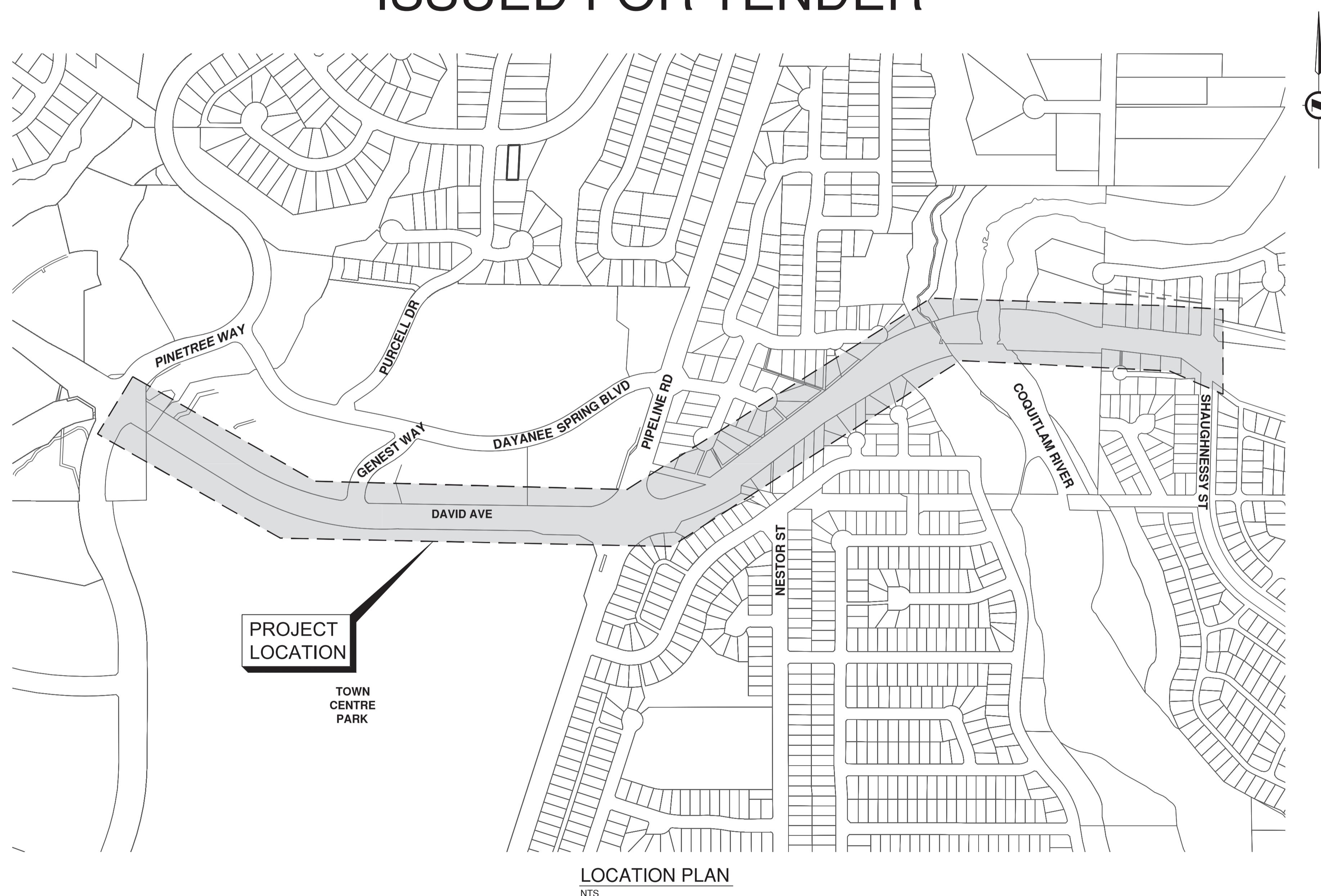
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Sheet of 5 OF 5	Description T
Eng. Project No.	

PELINE ROAD DAVID AVENUE TRAFFIC SIGNAL MODIFICATIONS

Coquitlam

DAVID AVENUE PAVEMENT REHABILITATION

ISSUED FOR TENDER



	DRAWING SCHEDULE		
	DWG NO.	SHEET TITLE	REV. NO.
GENERAL	00	COVER	C
	01	GENERAL NOTES	C
ROADWORKS	02	STA 59+440 TO 59+740	C
	03	STA 59+740 TO 60+080	C
	04	STA 60+080 TO 60+420	C
	05	STA 60+420 TO 60+750	C
	06	STA 60+750 TO 61+020	C



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

Permit to Practice
ISL Engineering and Land Services Ltd.

RR Signature: 
RR EGBC ID: 31886
Date: 2026-01-16

Permit Number 1000419
Engineers & Geoscientists British Columbia



GENERAL NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE PLATINUM EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS UNLESS OTHERWISE NOTED.
- 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 CONTRACTOR'S RESPONSIBILITY.
- NOTIFY THE CITY OF COQUITLAM 48 HOURS IN ADVANCE OF ANY CONSTRUCTION OR UTILITY RELOCATION.
- REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER A MIN 72 HOURS PRIOR TO CONSTRUCTION.
- RESTORATION OF EXISTING DRIVEWAYS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS.
- BOULEVARDS ARE TO BE CONSTRUCTED TO THE PLATINUM EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS UNLESS OTHERWISE SHOWN ON CONTRACT DRAWINGS. BOULEVARDS TO BE SLOPED TO INSPECTION CHAMBERS WHERE APPLICABLE.
- EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN OWNERS PROPERTY UPON THEIR REQUEST.
- 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.
- SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 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.
- 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 DESIGN ENGINEER A MINIMUM OF 72 HOURS PRIOR, AND OBTAIN APPROVAL FOR THE DISRUPTION.
- 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.
- CONTRACTOR TO MAINTAIN AN UP TO DATE SET OF AS-CONSTRUCTED DRAWINGS AT ALL TIMES. AS-CONSTRUCTED DRAWINGS TO BE DELIVERED TO THE ENGINEER AT SUBSTANTIAL PERFORMANCE FOR PREPARATION OF FINAL RECORD DRAWINGS. THE ENGINEER SHALL BE PROVIDED ACCESS TO REVIEW THE AS-CONSTRUCTED DRAWINGS AT ALL TIMES TO CONFIRM THEY ARE UP TO DATE.
- THE CONTRACTOR SHALL MAINTAIN AND MONITOR THE PROVISIONS FOR EROSION CONTROL AND SEDIMENT AS PER CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL ADJUST ALL AFFECTED MANHOLE FRAME AND COVERS A MIN. 24 HOURS PRIOR TO FINAL TOP LIFT PAVING. ANY ADJUSTMENTS THAT DO NOT MEET MMCD TOLERANCES SHALL BE IMMEDIATELY RESET AND CORRECTED.
- ALL PAVEMENT MARKINGS PAINT TO BE THERMOPLASTIC.
- ALL TOP LIFT PAVING JOINTS TO BE LOCATED UNDER THE THERMOPLASTIC CENTERLINE PAVEMENT MARKINGS.
- ALL ASPHALT JOINTS MUST BE SMOOTH AND WITHOUT VISIBLE BREAKS IN GRADE.
- SUBMIT DENSITY TESTS TAKEN ON JOINTS. NO INDIVIDUAL TEST LESS THAN 95% DENSITY.
- ALL LANE DIMENSIONS ARE MEASURED TO THE CENTER OF LANE LINES (FOR DOUBLE LINE THE MEASUREMENT IS TO THE MIDDLE POINT BETWEEN THE 2 LINES).

TRAFFIC MANAGEMENT, NOTIFICATION AND APPROVALS NOTES:

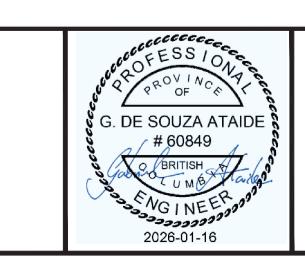
- THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SIGNAGE, BARRIERS, FLASHING INDICATORS, ETC. AT ALL TIMES TO ENSURE THE SAFETY OF THE PUBLIC. TRAFFIC CONTROL WILL BE REQUIRED FOR ALL CONSTRUCTION WORKS WITHIN THE TRAVELED PORTION OF THE ROAD. NO ROAD SHALL BE CLOSED WITHOUT THE WRITTEN CONSENT OF THE DIRECTOR OF ENGINEERING AND OPERATIONS.
- 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.
- 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.
- THE CONTRACTOR SHALL ARRANGE FOR, AND COORDINATE THE WORKS DONE BY:
 - CITY OF COQUITLAM, AND
 - FRANCHISE UTILITIES (BC HYDRO, FORTIS GAS, BC TRANSMISSION CORP., SHAW CABLE, TELUS AND METRO VANCOUVER).
- 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.
- RESIDENTS DIRECTLY AFFECTED BY CONSTRUCTION OF THESE WORKS AND SERVICES SHALL BE GIVEN 5 DAYS WRITTEN NOTICE OF THE PROPOSED START OF CONSTRUCTION. THE CONTRACTOR IS TO DISTRIBUTE A NOTICE OF CONSTRUCTION LETTER TO ALL AFFECTED RESIDENTS AND BUSINESSES. FOLLOWING CONSTRUCTION ACTIVITY ON ANY PRIVATE PROPERTY, A WRITTEN RELEASE MAY BE REQUIRED FROM THE PROPERTY OWNER AT THE DISCRETION OF THE CITY.
- A TRAFFIC AND PEDESTRIAN SAFETY CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 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.
- CONTRACTOR TO OBTAIN APPROVED LANE CLOSURE REQUEST FORM FOR ALL WORKS. APPROVED REQUESTS ARE CIRCULATED TO ALL EMERGENCY SERVICES.
- CONTRACTOR TO SUBMIT A TRAFFIC MANAGEMENT PLAN WITH LANE CLOSURE REQUEST FOR ALL MAJOR ROADS AND ANY LOCAL ROADS WHICH REQUIRE ANY DETOURS.
- ALL TRAFFIC CONTROL TO CONFORM TO THE LATEST EDITION OF THE BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
- APPROVAL OF NOISE VARIANCE FOR ALL WORK OUTSIDE OF NORMAL APPROVED WORK HOURS REQUIRED BY THE CITY.
- 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.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETION OF ALL TAPE 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.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE TRAFFIC MANAGEMENT DETAILED SPECIFICATIONS IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY RELOCATION OF BUS STOPS WITH COAST MOUNTAIN BUS COMPANY.

SNOW-PLOWABLE RECESSED PAVEMENT MARKERS (SRM) NOTES:

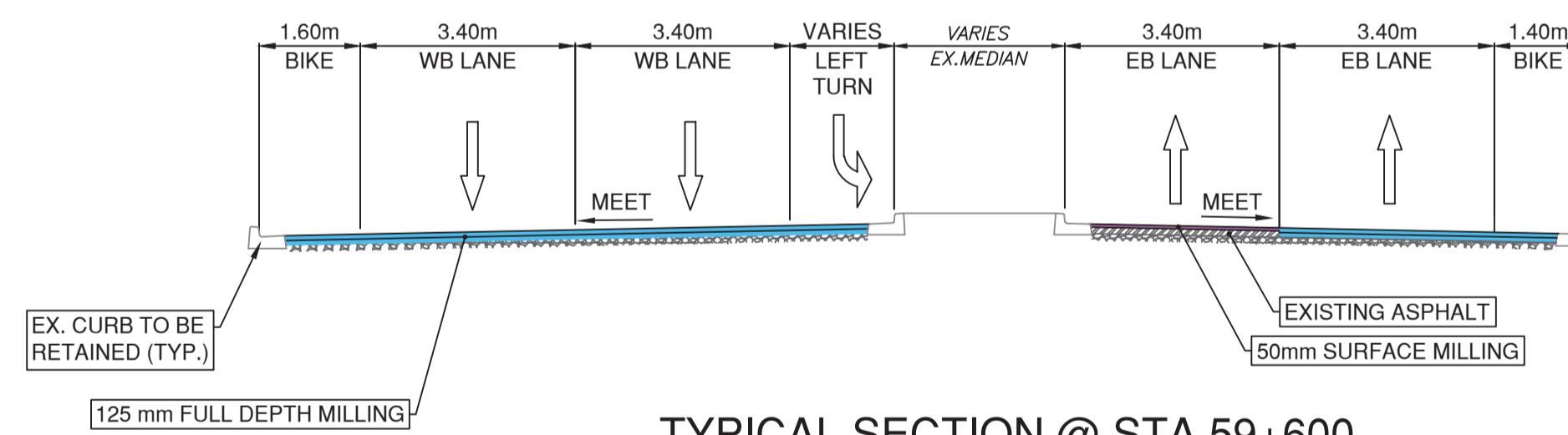
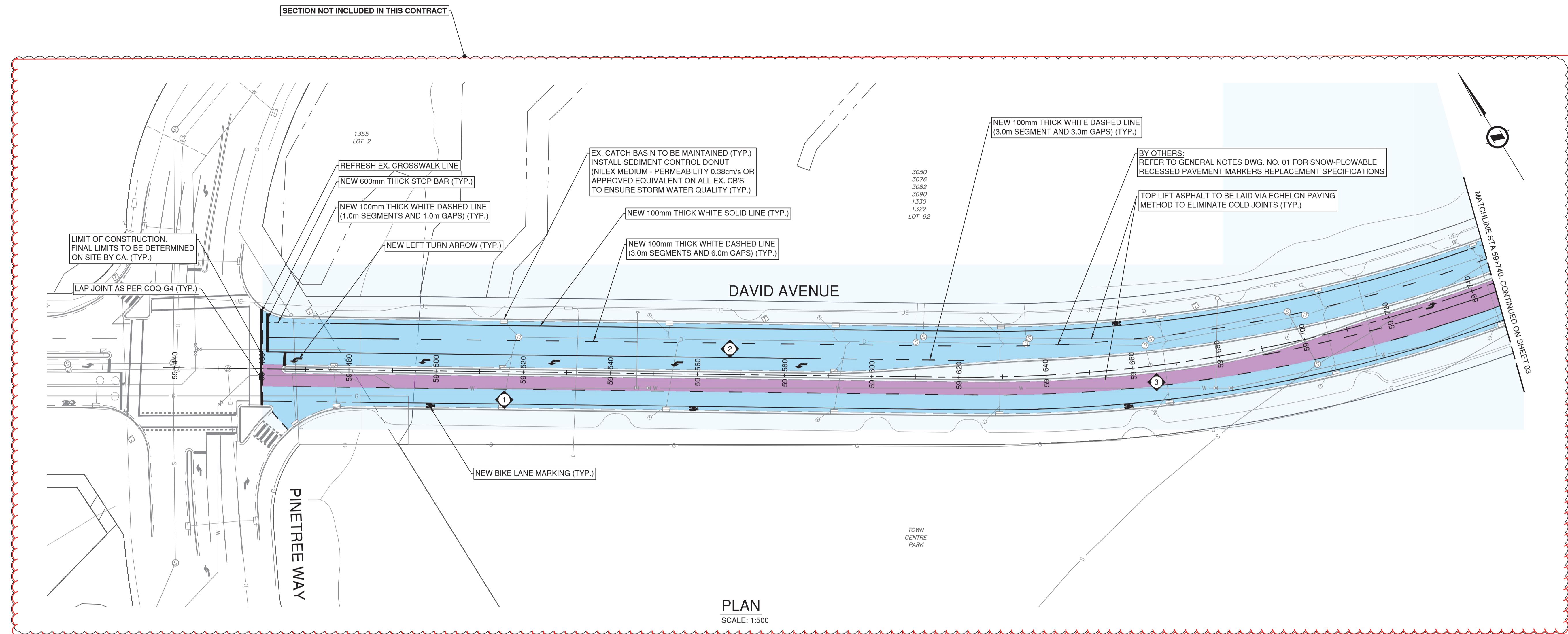
- NO SRM'S TO BE INSTALLED ALONG EXISTING AND PROPOSED ROAD SHOULDER WHITE FOG LINES.
- SRM'S TO MATCH COLOUR OF LANE PAVEMENT MARKING
- SRM'S TO BE PLACED 300mm IN ADVANCE OF BROKEN/DASHED LINES
- SRM'S TO BE OFFSET 50mm TO THE RIGHT OF SOLID LINES
- SRM'S TO BE SPACED AS FOLLOWS:
 - EXISTING AND PROPOSED BROKEN LANE LINES - 26m
 - EXISTING AND PROPOSED SOLID LANES LINES - 26m
 - PROPOSED SOLID EDGE LINES - 26m
 - EXISTING AND PROPOSED DECELERATION DASHED LINES - 12m
 - SOLID INTERSECTION APPROACH LINES - 12m
- WHERE PAVEMENT MARKING LENGTHS ARE NOT SUFFICIENT FOR DESCRIBED SPACING, SRM'S ARE TO BE INSTALLED AT THE BEGINNING AND END OF THE PAVEMENT MARKING
- TOP OF REFLECTORS TO BE RECESSED BELOW THE ASPHALT SURFACE WITHIN A MILLED SLOT
- RECESSED PAVEMENT MARKERS TYPE TO MATCH EXISTING (EXCLUDES METAL CRADLE)

BY OTHERS

REV. NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2025/11/25	EH	GA
B	DETAILED DESIGN	2026/01/06	EH	GA
C	ISSUED FOR TENDER	2026/01/16	EH	GA


ROAD WORKS
GENERAL NOTES
DAVID AVE PAVEMENT REHABILITATION
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

ISSUED FOR TENDER	DESIGN NO.	34461		
SCALE	AS SHOWN	CREATION DATE	OCT - 2025	DWG. NO.
DRAWN BY	EH	DESIGN BY	GA	01 OF
CHECKED BY	CJB/RF	APPROVED BY	GA	06
PLOT DATE	January 16, 2026			REV. C



TYPICAL SECTION @ STA 59+60

DAVID AVE - CORE REPORT - OCTOBER 2025 (METRO TESTING)					
LANE	CORE NO.	METRO TESTING REFERENCE NO.	ASPHALT THICKNESS (mm)	TOP LIFT THICKNESS (mm)	COMMENTS
E/B LANE	1	25	110	40	CRACKED THROUGH (NO BOND)
W/B LANE	2	24	95	35	TEST HOLE (HAND DUG)
E/B LANE	3	23	115	50	

DAVID AVE - BOREHOLE REPORT - OCTOBER 2025

(METRO TESTING)

NOTES:

1. ADJUST ALL MANHOLES, CATCHBASINS, CLEANOUTS, VALVE COVERS, INSPECTION CHAMBERS, ETC. TO GRADE AS REQUIRED.

A scale bar with a 1:500 scale factor, a 0 to 30m distance scale, and a 0 to 10 time scale.

ISSUED FOR TENDER

DESIGN NO

34461

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPROVED
A	PRELIMINARY DESIGN	2025/11/25	EH	GA
B	DETAILED DESIGN	2026/01/06	EH	GA
C	ISSUED FOR TENDER	2026/01/16	EH	GA



ROAD WORKS

STA 59+440 TO 59+740

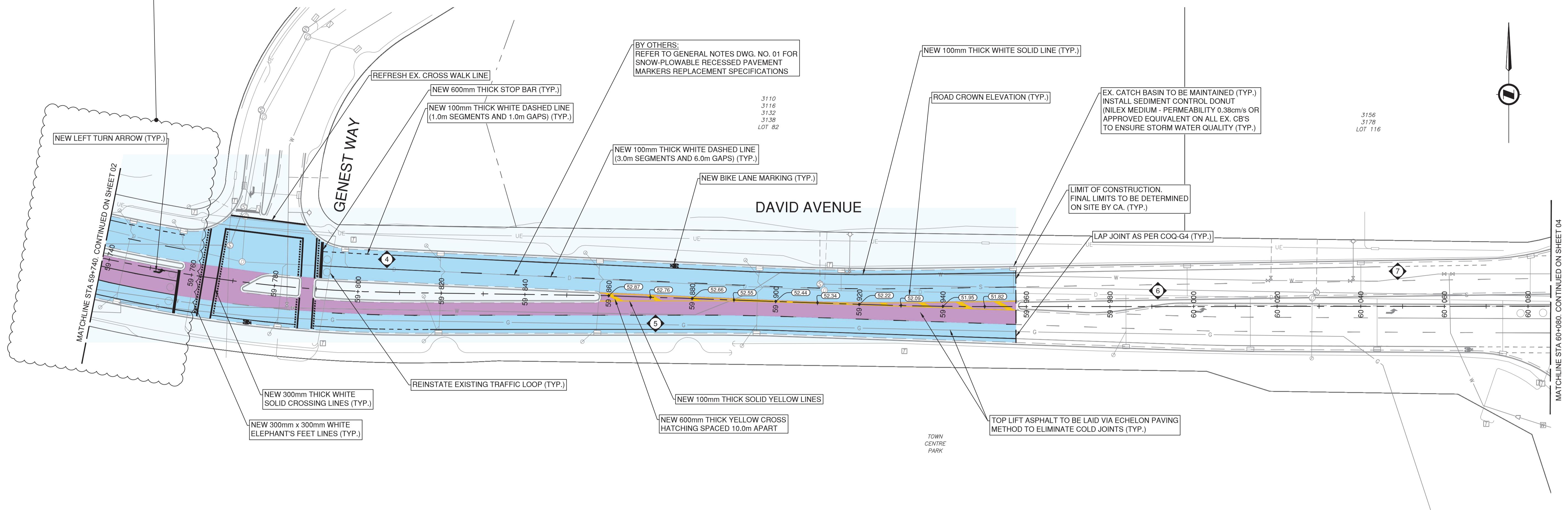
DAVID AVENUE PAVEMENT REHABILITATION



#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9

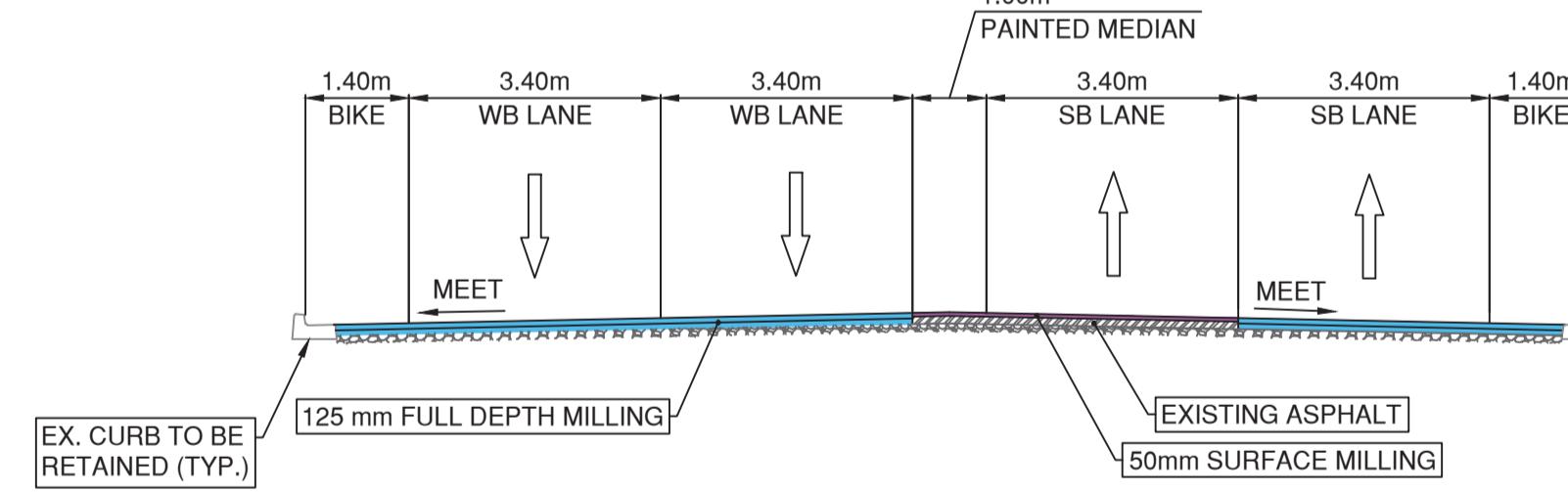
SCALE	AS SHOWN	CREATION DATE	OCT - 2025	DWG. NO. 02 OF 06 REV. C
DRAWN BY	EH	DESIGN BY	GA	
CHECKED BY	CJB/RF	APPROVED BY	GA	
PLOT DATE	January 16, 2026			

SECTION NOT INCLUDED IN THIS CONTRACT



PLAN

SCALE: 1:500



TYPICAL SECTION @ STA 59+880

SCALE: 1:100

DAVID AVE - CORE REPORT - OCTOBER 2025 (METRO TESTING)

LANE	CORE NO.	METRO TESTING REFERENCE NO.	ASPHALT THICKNESS (mm)	TOP LIFT THICKNESS (mm)	COMMENTS
E/B LANE	4	22	95	40	ALLIGATORATED IN BOTH WHEEL PATHS (CRACKED THROUGH) NO BOND
W/B LANE	5	21	115	45	TEST HOLE (HAND DUG)
E/B LANE	6	20	120	53	TOP LIFT IN POOR CONDITION
E/B LANE	7	19	110	50	

125mm FULL DEPTH MILL AND PAVING

- DETERMINE FINAL LIMITS OF ROAD TREATMENT WITH CONTRACT ADMINISTRATOR.
- FULL DEPTH MILL THE EXISTING ASPHALT SURFACES & GRAVEL UP TO A DEPTH OF 125mm.
- SUPPLEMENT WITH 25mm MINUS GRANULAR BASE MATERIAL, RESHAPE AREA TO MATCH EXISTING GRADES AND COMPACT TO NO LESS THAN 95% MODIFIED PROCTOR DENSITY.
- PROOF ROLL AND OVEREXCAVATE WHERE REQUIRED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- PLACE (WITH PAVER) BASE LIFT OF NEW HOT MIX ASPHALT TO 75mm THICKNESS (USE MMCD STANDARD LOWER COURSE #1 MIXTURE, COMPACTED TO NO LESS THAN 97% OF 75 BLOW MARSHALL DENSITY). BASE LIFT PAVING MUST BE COMPLETED ON THE SAME NIGHT IT IS MILLED, BEFORE RE-OPENING THE LANE TO TRAFFIC.
- CLEAN AND TACK-COAT ALL ASPHALT SURFACES INCLUDING JOINTS.
- PLACE (WITH PAVER) TOP LIFT OF NEW HOT MIX ASPHALT TO 50mm THICKNESS (USE MOTI CLASS 1, 19mm MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER, COMPACTED TO NO LESS THAN 97% OF 75 BLOW MARSHALL DENSITY).

50mm SURFACE MILL AND PAVING

- DETERMINE FINAL LIMITS OF ROAD TREATMENT WITH CONTRACT ADMINISTRATOR.
- SURFACE MILL THE EXISTING ASPHALT ROAD TO A DEPTH OF 50mm.
- MECHANICALLY SWEEP ROAD SURFACE & CLEAN JOINTS OF DEBRIS.
- CLEAN AND TACK-COAT ALL ASPHALT SURFACES INCLUDING JOINTS.
- INLAY (WITH PAVER) MILLED AREA WITH NEW HOT MIX ASPHALT TO 50mm THICKNESS (USE MOTI CLASS 1, 19mm MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER, COMPACTED TO NO LESS THAN 97% OF 75 BLOW MARSHALL DENSITY.)

NOTES:

- ADJUST ALL MANHOLES, CATCHBASINS, CLEANOUTS, VALVE COVERS, INSPECTION CHAMBERS, ETC. TO GRADE AS REQUIRED.

1:500 0 10 30m

ISSUED FOR TENDER DESIGN NO.

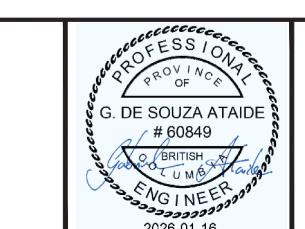
34461

REV. NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2025/11/25	EH	GA
B	DETAILED DESIGN	2026/01/06	EH	GA
C	ISSUED FOR TENDER	2026/01/16	EH	GA

Coquitlam

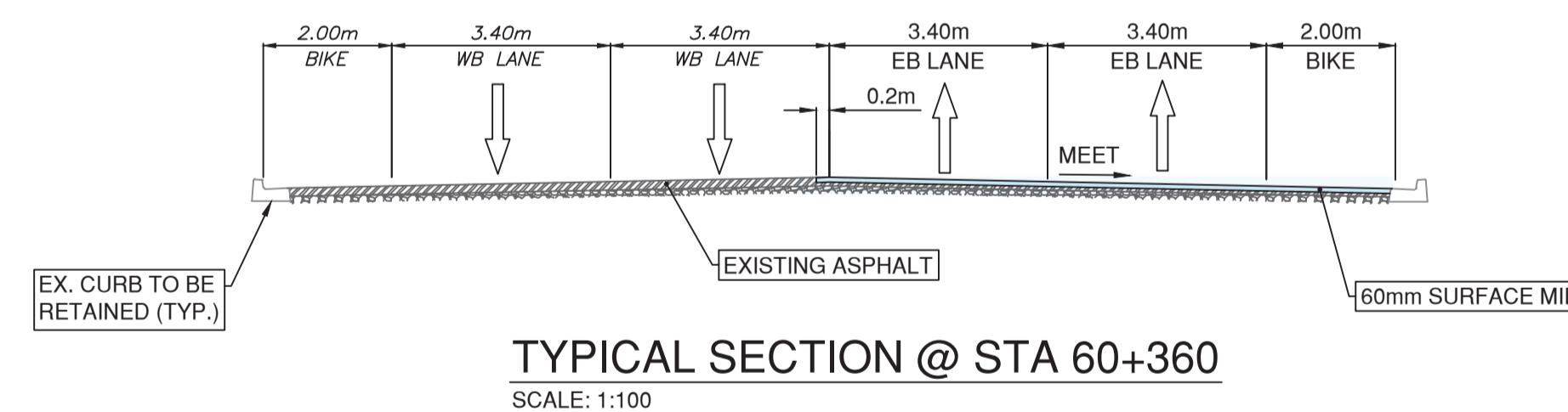
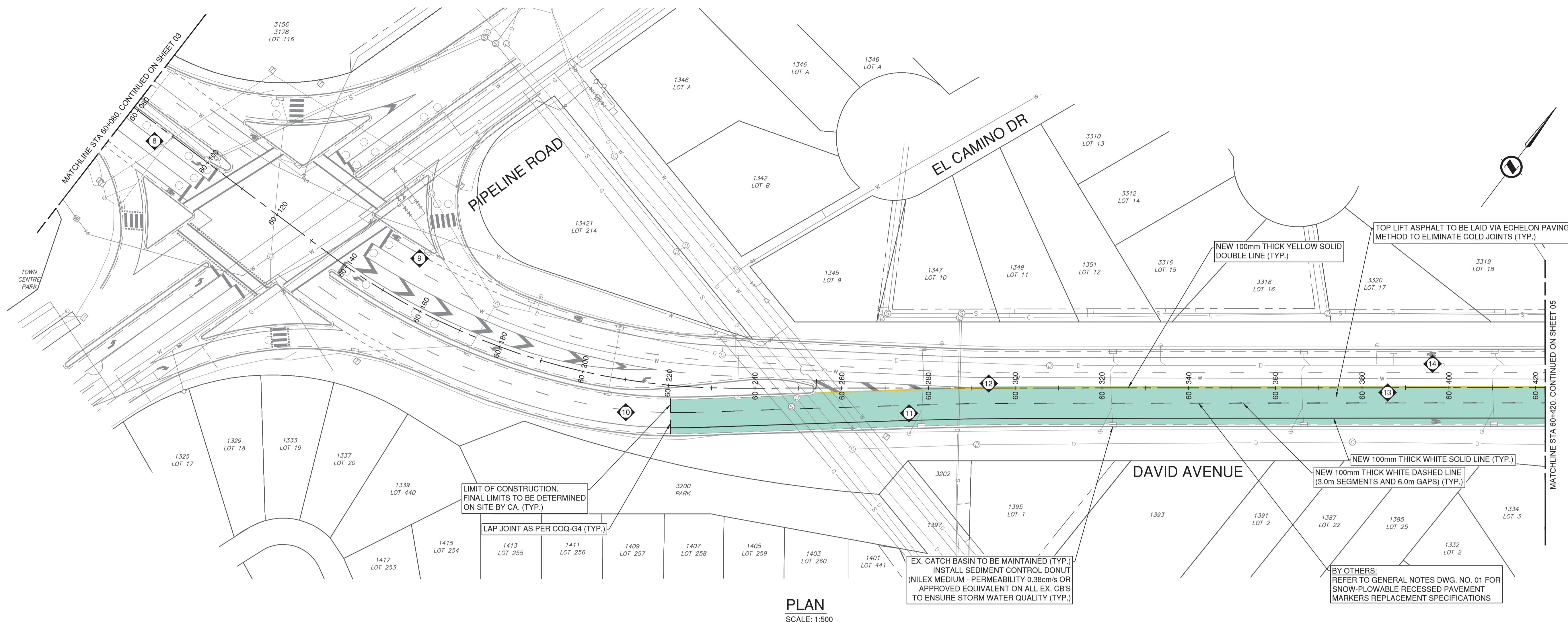
ROAD
WORKS

STA 59+740 TO 60+080
DAVID AVENUE PAVEMENT REHABILITATION



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

SCALE	AS SHOWN	CREATION DATE	OCT - 2025	DWG. NO.
DRAWN BY	EH	DESIGN BY	GA	03 OF 06
CHECKED BY	CJB/RF	APPROVED BY	GA	
PLOT DATE	January 16, 2026			REV. C



TYPICAL SECTION @ STA 60+36

SCALE: 1:1

DAVID AVE - CORE REPORT - OCTOBER 2025 (METRO TESTING)					
LANE	CORE NO.	METRO TESTING REFERENCE NO.	ASPHALT THICKNESS (mm)	TOP LIFT THICKNESS (mm)	COMMENTS
E/B LANE	8	18	110	48	
W/B LANE	9	17	135	60	
E/B LANE	10	16	140		TEST HOLE
E/B LANE	11	15	140	60	
W/B LANE	12	14	115	55	SURFACE CRACKING ONLY
E/B LANE	13	13	130		TEST HOLE
W/B LANE	14	12	140	60	NO BOND (SURFACE CRACKING ONLY)

DAVID AVE - BOREHOLE REPORT - OCTOBER 2025

(METRO TESTING)

NOTES:

1. ADJUST ALL MANHOLES, CATCHBASINS, CLEANOUTS, VALVE COVERS, INSPECTION CHAMBERS, ETC. TO GRADE AS REQUIRED.

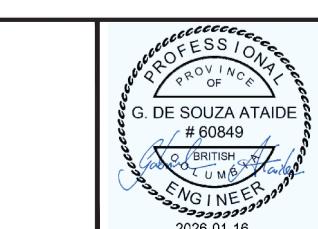
REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APP
A	PRELIMINARY DESIGN	2025/11/25	EH	GA
B	DETAILED DESIGN	2026/01/06	EH	GA
C	ISSUED FOR TENDER	2026/01/16	EH	GA



ROAD WORKS

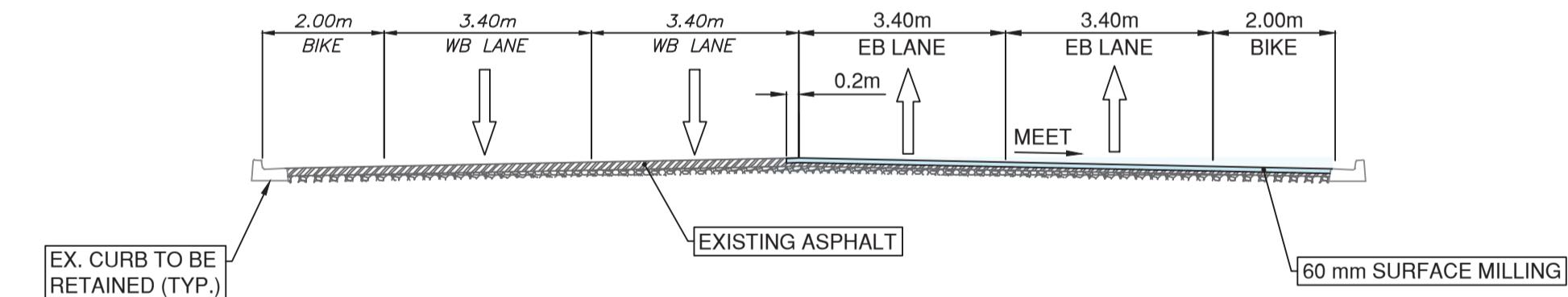
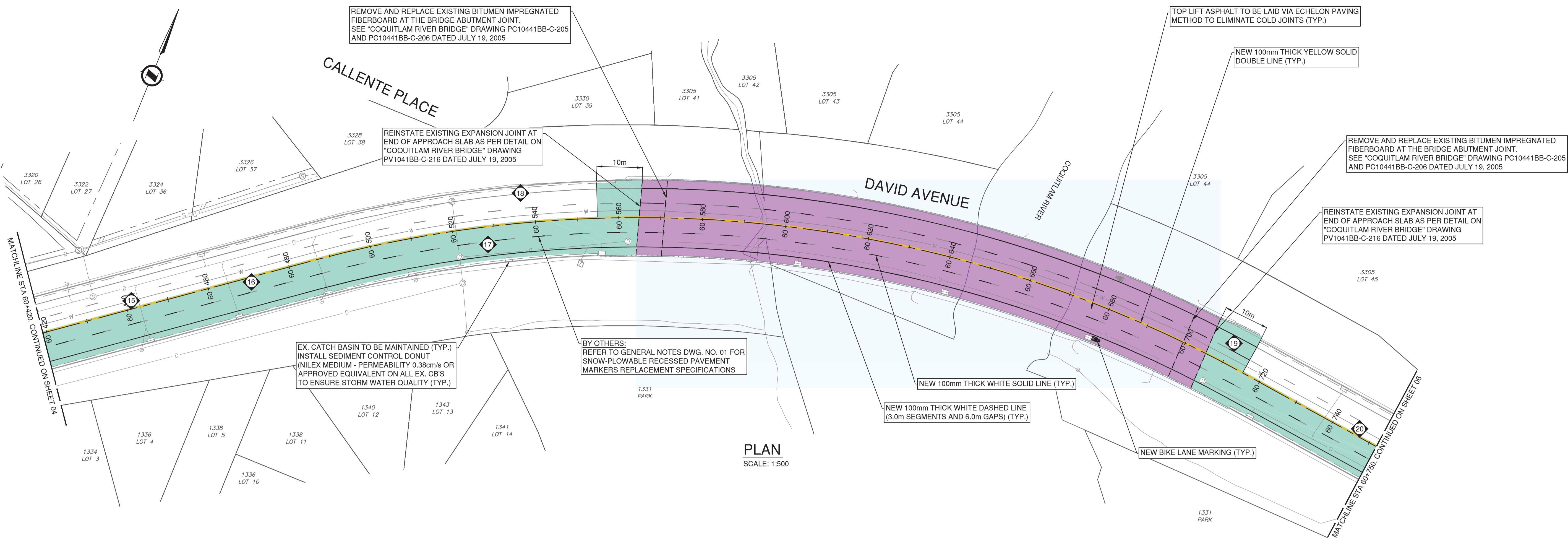
STA 60+080 TO 60+420

DAVID AVENUE PAVEMENT REHABILITATION

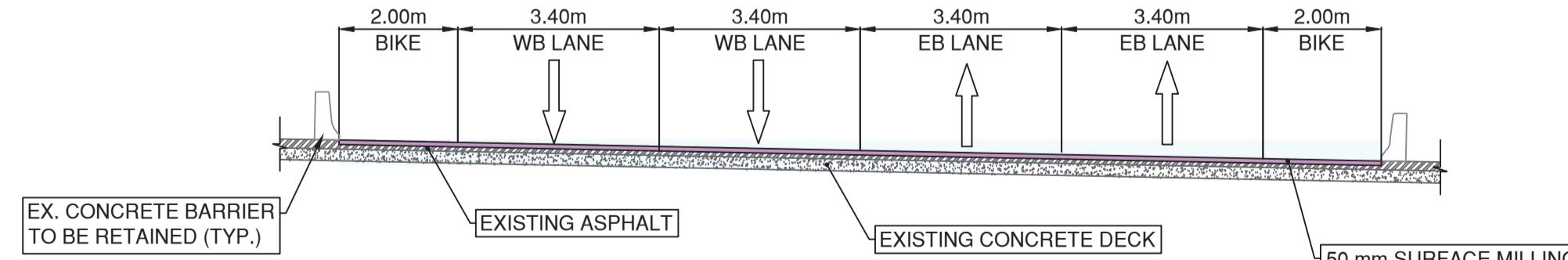


, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

 ISL <small>Henning Drive, Burnaby, B.C. V5C 6P9 (604)629-2696 F: (604)629-2698</small>	SCALE	AS SHOWN	CREATION DATE	OCT - 2025	DWG. NO.
	DRAWN BY	EH	DESIGN BY	GA	04
	CHECKED BY	CJB/RF	APPROVED BY	GA	OF 06
	PLOT DATE	January 16, 2026			REV. C



TYPICAL SECTION @ STA 60+460
SCALE: 1:100



TYPICAL SECTION @ STA 60+620
SCALE: 1:100

DAVID AVE - CORE REPORT - OCTOBER 2025 (METRO TESTING)

LANE	CORE NO.	METRO TESTING REFERENCE NO.	ASPHALT THICKNESS (mm)	TOP LIFT THICKNESS (mm)	COMMENTS
W/B LANE	15	11	125	55	
E/B LANE	16	10	120	50	SURFACE CRACKING ONLY
E/B LANE	17	9	130	50	
W/B LANE	18	8	130		TEST HOLE
W/B LANE	19	7	140	55	
W/B LANE	20	6	140		TEST HOLE

DAVID AVE - BOREHOLE REPORT - OCTOBER 2025 (METRO TESTING)

LANE	CORE NO.	METRO TESTING REFERENCE NO.	ASPHALT THICKNESS (mm)	COMMENTS
W/B LANE	TH #2	6	140	SEE TEST HOLE LOGS REPORT MB51661 (OCTOBER 29, 2025)
E/B LANE	TH #3	8	130	SEE TEST HOLE LOGS REPORT MB51661 (OCTOBER 29, 2025)

60mm SURFACE MILL AND PAVING

- DETERMINE FINAL LIMITS OF ROAD TREATMENT WITH CONTRACT ADMINISTRATOR (CA).
- SURFACE MILL THE EXISTING ASPHALT ROAD TO A DEPTH OF 60mm.
- MECHANICALLY SWEEP ROAD SURFACE & CLEAN JOINTS OF DEBRIS.
- OPTIONAL PATCHING:
 - CA TO IDENTIFY AREAS & CONTRACTOR SHALL REMOVE AREAS OF ASPHALT AND GRAVELS UP TO AN ADDITIONAL DEPTH OF 75mm FOR PATCHING.
 - SUPPLEMENT WITH 25mm MINUS GRANULAR BASE MATERIAL, RESHAPE AREA TO MATCH EXISTING GRADES AND COMPACT TO NO LESS THAN 95% MODIFIED PROCTOR DENSITY.
 - PLACE BASE LIFT OF NEW HOT MIX ASPHALT TO 75mm THICKNESS (USE MMCD STANDARD LOWER COURSE #1 MIXTURE, COMPACTED TO NO LESS THAN 97% OF 75 BLOW MARSHALL DENSITY).
- CLEAN AND TACK-COAT ALL ASPHALT SURFACES INCLUDING JOINTS.
- INLAY (WITH PAVER) MILLED AREA WITH NEW HOT MIX ASPHALT TO 60mm THICKNESS (USE MOTI CLASS 1, 19mm MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER, COMPACTED TO NO LESS THAN 97% OF 75 BLOW MARSHALL DENSITY.)

50mm SURFACE MILL AND PAVING

- DETERMINE FINAL LIMITS OF ROAD TREATMENT WITH CONTRACT ADMINISTRATOR.
- SURFACE MILL THE EXISTING ASPHALT ROAD TO A DEPTH OF 50mm.
- MECHANICALLY SWEEP ROAD SURFACE & CLEAN JOINTS OF DEBRIS.
- CLEAN AND TACK-COAT ALL ASPHALT SURFACES INCLUDING JOINTS.
- INLAY (WITH PAVER) MILLED AREA WITH NEW HOT MIX ASPHALT TO 50mm THICKNESS (USE MOTI CLASS 1, 19mm MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER, COMPACTED TO NO LESS THAN 97% OF 75 BLOW MARSHALL DENSITY.)

NOTES:

- ADJUST ALL MANHOLES, CATCHBASINS, CLEANOUTS, VALVE COVERS, INSPECTION CHAMBERS, ETC. TO GRADE AS REQUIRED.

0 5 15m

1:250

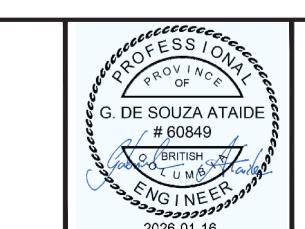
ISSUED FOR TENDER DESIGN NO. 34461

REV. NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2025/11/25	EH	GA
B	DETAILED DESIGN	2026/01/06	EH	GA
C	ISSUED FOR TENDER	2026/01/16	EH	GA

Coquitlam

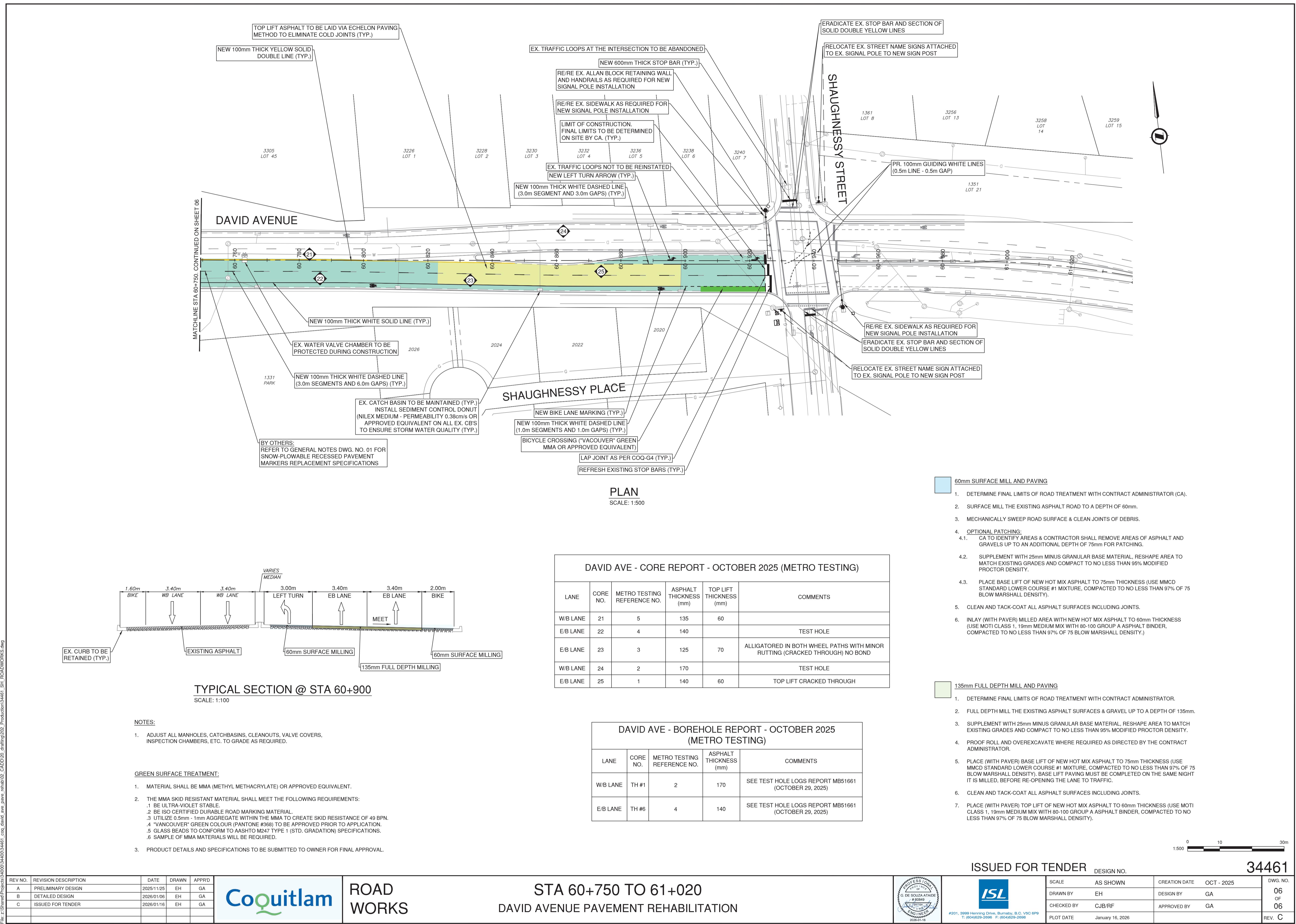
ROAD
WORKS

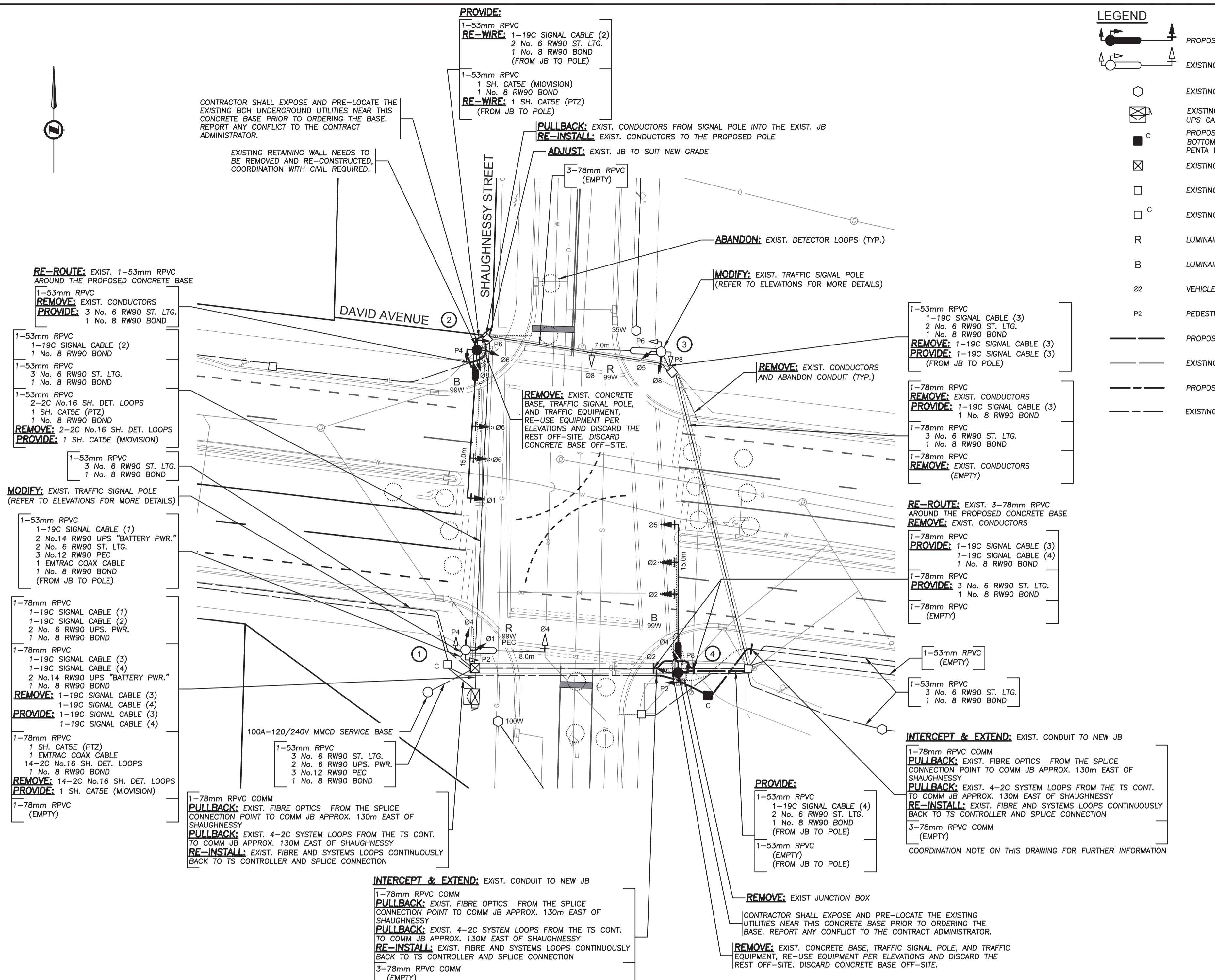
STA 60+420 TO 60+750
DAVID AVENUE PAVEMENT REHABILITATION



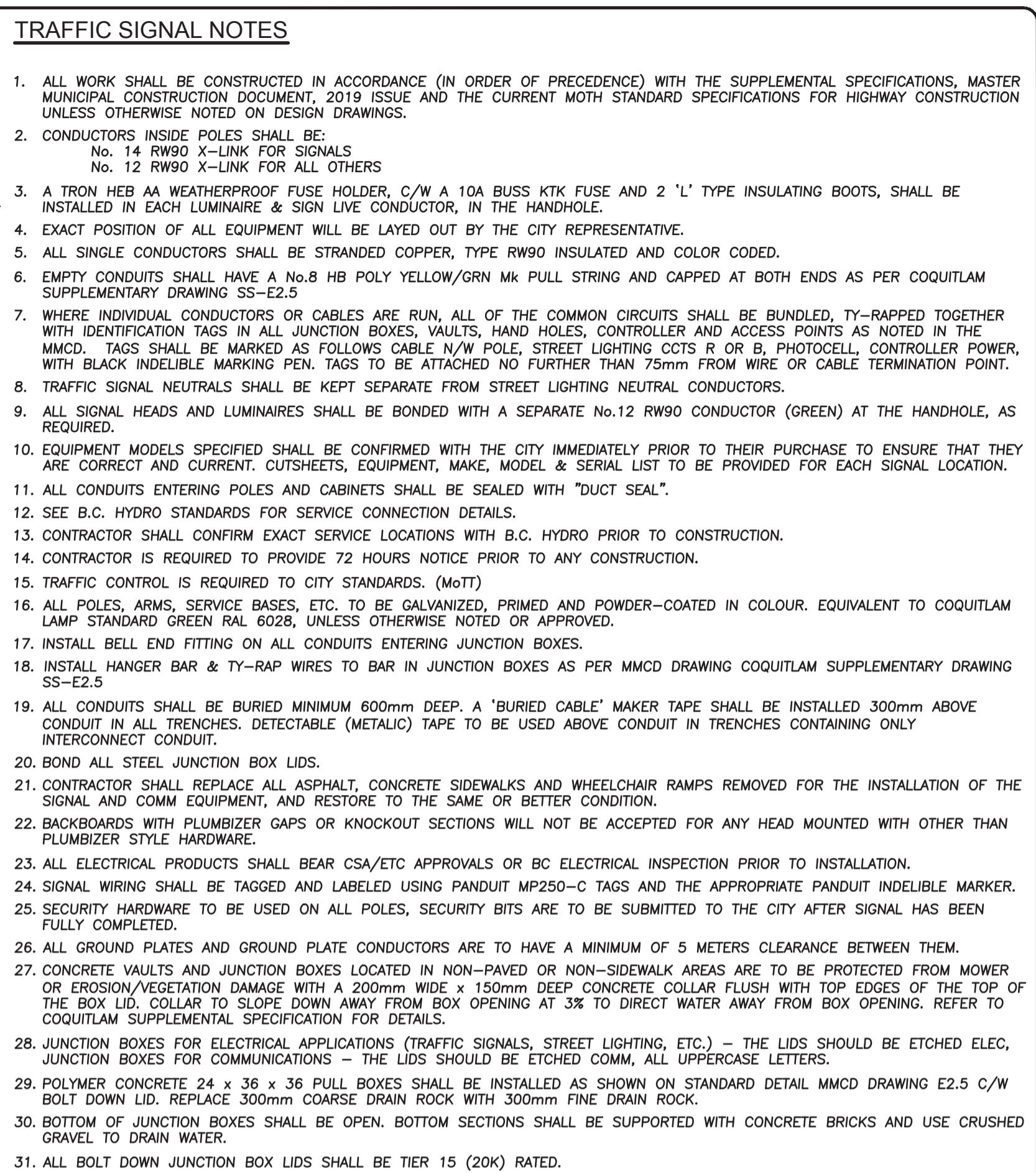
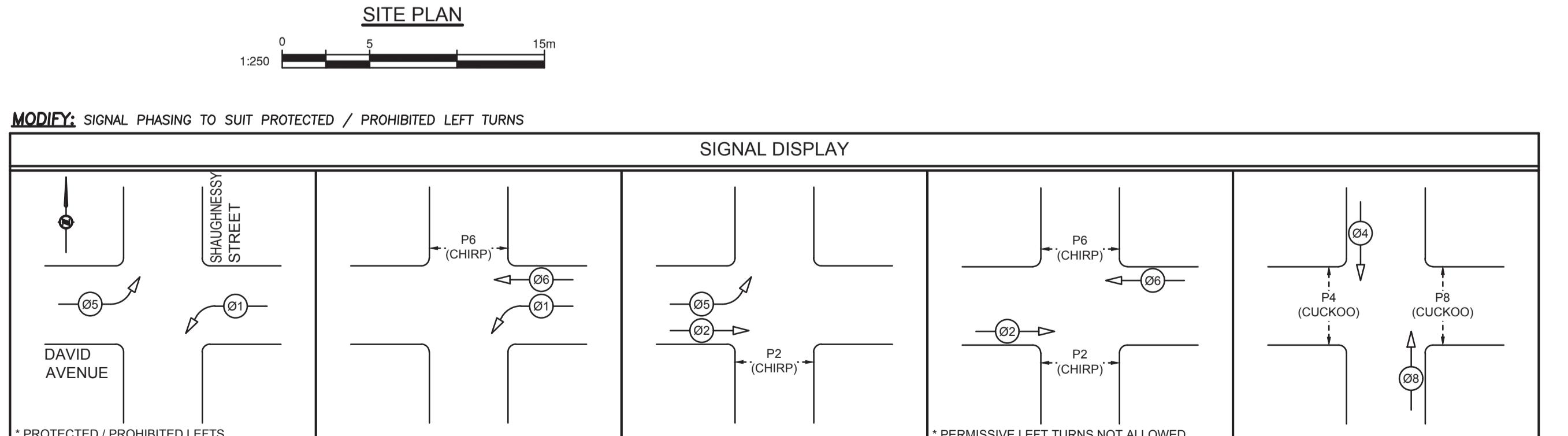
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

SCALE	AS SHOWN	CREATION DATE	OCT - 2025	DWG. NO.
DRAWN BY	EH	DESIGN BY	GA	05 OF 06
CHECKED BY	CJB/RF	APPROVED BY	GA	06
PLOT DATE	January 16, 2026	REV.	C	





INTERSECTION DESIGN CRITERIA PER: (CITY BYLAW 3558)			
INTERSECTION (NAME)	DAVID AVENUE	SHAUGHNESSY STREET	
LAND USE CLASSIFICATION	RESIDENTIAL	RESIDENTIAL	
ROADWAY CLASSIFICATION & WIDTH	ARTERIAL	COLLECTOR	
PEDESTRIAN CONFLICT	MEDIUM	MEDIUM	
ILLUMINANCE RECOMMENDED/DELIVERED	22.0 LUX	24.8 LUX	
UNIFORMITY RECOMMENDED/DELIVERED	3.0:1	2.0:1	
LIGHT LOSS FACTOR	0.84		
SPACING	AS SHOWN		
<u>EQUIPMENT</u>			
Fixture Type: LED	Wattage: 99W	MTG. Height: 11.0m	Dist Type: 2ES
IES File:	NXT-60M-525mA-2ES-4000K		Model: NXT-60M- SERIES
Fixture Type: LED	Wattage: 35W	MTG. Height: 6.0m	Dist Type: 2ES
IES File:	NXT-24S-450mA-2ES-4000K		Model: NXT-24S- SERIES
Fixture Type: LED	Wattage: 100W	MTG. Height: 6.0m	Dist Type: 4AH
IES File:	NXT-72M-450mA-4AH-4000K		Model: NXT-72M- SERIES



**ALL EQUIPMENT IS EXISTING
EXCEPT WHERE NOTED**

NOT FOR CONSTRUCTION

LIGHTING SHALL REMAIN IN
GHOOUT CONSTRUCTION. IF
ENERGIZATION IS REQUIRED
ENSURE FULL-TIME FLAGGING IS
TRAFFIC SIGNAL DOWNTIME.

XISTING INFORMATION SHOWN WAS TAKEN FROM
E EXISTING CITY AS-BUILT DRAWINGS. DETAILS ON
WINGS ONLY SHOW CHANGES REQUIRED AND MAY
T ACCURATELY REPRESENT WHAT EXISTS IN FIELD

DO NOT USE THIS DRAWING FOR PAVEMENT MARKINGS

EXISTING FIBRE OPTIC CABLES ON DAVID AVENUE SHALL REMAIN IN OPERATION AND SHALL BE PROTECTED WHEN NECESSARY UNTIL THE NEW WORKS HAVE BEEN INSTALLED. THE CONTRACTOR SHALL COORDINATE WITH QNET AT LEAST 3 WEEKS PRIOR TO CONSTRUCTION. CONTACT BRENT GALPIN 604-927-3626 / bgalpin@coquitlam.ca) OR DWAYNE ROPER 604-927-3605 / droper@coquitlam.ca) TO COORDINATE THE PULL BACK, CUT OVER, SPLICING AND CONNECTIONS. QNET WILL BE RESPONSIBLE FOR APPLYING AND INSTALLING THE NEW FIBER OPTIC CABLES AND SPLICING ENCLOSURES.



COQ. ASBUILT No. 50000

DAVID AVENUE SHAUGHNESSY STREET TRAFFIC SIGNAL MODIFICATIONS

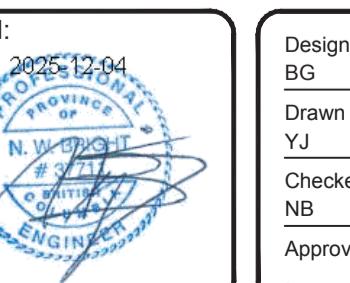
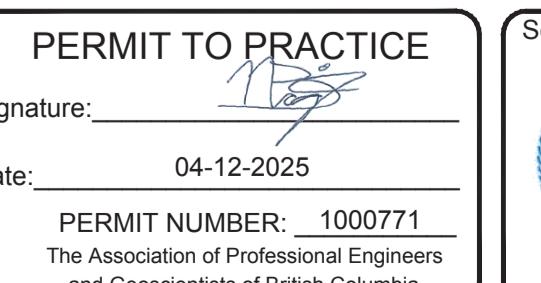
Benchmark:



**DMD & Associates
Electrical Consultants Ltd.**
#12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589-9010
office@dmdeng.com Fax 604/589-9012
DMD PROJECT No. 9623-25-01 of 02

Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

. 04-12-2025 BG ISSUED FOR TENDER											
No	Date	By	Revisions								



Date 25-11-2025	Scale 1:250
Date 25-11-2025	Sheet of 1 OF 2
Date 25-11-2025	Eng. Project No. .
Date 25-11-2025	

DAVID AVENUE SHAUGHNESSY STREET

TRAFFIC SIGNAL MODIFICATIONS

GENERAL

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING Nos. PV1041BB-C-201 TO 224.
2. DO NOT SCALE FROM DRAWINGS.
3. DESIGN SPECIFICATION CAN/CSA-S6-00 UNLESS NOTED OTHERWISE.
4. LIVE LOAD: CL625
5. FATIGUE DESIGN CHECKED TO BE IN COMPLIANCE WITH CAN/CSA-S6-00 DETAIL CATEGORIES AND STRESS RANGE REQUIREMENTS, FOR A DESIGN LIFE OF 75 YEARS. ADTT = 1000 FOR CLASS B HIGHWAY.
6. SEISMIC DESIGN IS IN ACCORDANCE WITH THE REQUIREMENTS CAN/CSA-S6-00.
7. SURVEY BY: DELCAN
8. DATUM: GEODETIC.
9. BENCHMARKS:
10. FOR BOREHOLE DATA REFER TO GEOTECHNICAL REPORT.

CLIMATIC INFORMATION (BURNABY SFU)

1. DESIGN TEMPERATURE:	+25 °C
MAXIMUM DAILY MEAN	
MINIMUM DAILY MEAN	-9 °C
2. RAIN:	
ONE DAY RAIN	140 mm
15 MIN. RAIN	10 mm
3. GROUND SNOW LOAD:	
S _s	2.6 kPa
S _r	0.60 kPa
4. HOURLY WIND PRESSURE:	
1/10	0.36 kPa
1/30	0.44 kPa
1/100	0.53 kPa
5. SEISMIC DATA:	
Z _v	4
Z _d	4
ZONAL VELOCITY RATIO V	0.20

SCOPE OF WORK

THE FOUNDATIONS AND A PORTION OF THE BRIDGE SUBSTRUCTURE HAS ALREADY BEEN COMPLETED UNDER A PREVIOUS CONTRACT. THE SCOPE OF WORK FOR THIS CONTRACT WILL INCLUDE ALL ITEMS AND ACTIVITIES REQUIRED TO COMPLETE CONSTRUCTION OF THE BRIDGE IN ACCORDANCE WITH THESE DRAWINGS AND THE SPECIFICATIONS, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:-

1. CONSTRUCTION OF ABUTMENT BEAMS ON PILES.
2. COMPLETION OF PIER COLUMNS.
3. SUPPLY AND ERECTION OF PRECAST I GIRDERS ON TEMPORARY SUPPORTS.
4. CONSTRUCTION OF REINFORCED CONCRETE DECK SLAB, END DIAPHRAGMS AND CONCRETE PIER CROSS HEAD.
5. POST TENSIONING AND GROUTING OF CAST DECK.
6. CONSTRUCTION OF APPROACH SLABS AND ROADSIDE BARRIERS.
7. INSTALLATION OF PEDESTRIAN HANDRAILING AND BARRIER RAILING.
8. INSTALLATION OF DECK DRAINAGE.
9. INSTALLATION OF DECK WATERPROOFING MEMBRANE AND ASPHALT ROAD SURFACE.
10. INSTALLATION OF ALL UTILITIES INCLUDING ALL COMPONENTS FOR 600 DIA. WATERMAIN, BC HYDRO, TELUS, ROAD LIGHTING AND DUCTS FOR FUTURE USE.

GENERAL PRECAST GIRDER

1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF RELEASE OF STRANDS SHALL BE 33 MPa AND AT 28 DAYS SHALL BE 55 MPa.
2. MINIMUM CONCRETE COVER (UNLESS NOTED OTHERWISE): REINFORCING STEEL 25 mm PRESTRESSING STRAND 40 mm TENDON DUCTS 45 mm
3. GENERAL DECK AND DIAPHRAGM NOTES No. 7, 8, 9 AND 10 APPLICABLE.
4. WELDING IS NOT PERMITTED WITHIN 3,000 mm OF ANY TENDON OR TENDON DUCT.
5. GIRDERS SHALL ONLY BE LIFTED AT LOCATIONS SHOWN AT EACH END. GIRDERS SHALL ONLY SUPPORTED WITHIN 1,500 mm OF END OF GIRDERS. GIRDERS SHALL BE KEPT UPRIGHT AT ALL TIMES.
6. GIRDERS SHALL BE CLEARLY LABELLED WITH GIRDERS MARK (LETTER AND NUMBER) AND ALL GIRDERS ENDS SHALL BE LABELLED APPROPRIATELY 'EAST' OR 'WEST'.
7. FOLLOWING ERECTION, ALL GIRDERS IN EACH SPAN SHALL BE BRACED TO EACH OTHER, USING TEMPORARY TRANSVERSE DIAPHRAGMS. TEMPORARY DIAPHRAGM DESIGN AND LONGITUDINAL SPACING SHALL BE THE CONTRACTORS RESPONSIBILITY. ALL TEMPORARY DIAPHRAGMS SHALL BE REMOVED FOLLOWING COMPLETION OF SUPERSTRUCTURE POST TENSIONING.

PRE-TENSIONING

1. PRESTRESSING STEEL SHALL BE LOW-RELAXATION SEVEN WIRE STRAND, SIZE DESIGNATION 13, GRADE 1860, AND SHALL MEET THE REQUIREMENTS OF CSA STANDARD G279-M1982.
2. MINIMUM BREAKING STRENGTH OF STRAND 184.3 kN.
3. JACKING FORCE PER STRAND 129.0 kN.
4. AVERAGE NET FORCE PER STRAND AFTER ALL LOSSES: GIRDER '1' = 113kN, GIRDER '2' & '3' = 114kN, GIRDER '4' = 109kN.
5. A MINIMUM OF 1000 mm OF EACH STRAND TO BE LEFT PROJECTING BEYOND THE END OF THE GIRDERS AFTER REMOVAL FROM FORM.

POST-TENSIONING

1. PRESTRESSING STEEL SHALL BE LOW RELAXATION, SEVEN WIRE STRAND, SIZE DESIGNATION 15, GRADE 1860 AND SHALL MEET THE REQUIREMENTS OF CSA STANDARD G279-M1982.
2. PRESTRESSING TENDONS SHALL BE FREYSSINET INTERNAL TYPE 12K15 OR APPROVED EQUAL WITH 12 STRANDS (PROFILE 1), AND 12 STRANDS (PROFILE 2).
3. MINIMUM BREAKING STRENGTH SHALL BE 260.6 kN/STRAND.
4. REQUIRED ELONGATION AND THE TENDON JACKING FORCE SHALL BE:

JACKING FORCE (kN)	TENDON 1		TENDON 2	
	2344 (75%)	2344 (75%)	2344 (75%)	2344 (75%)
ELONGATION	WEST END	EAST END	WEST END	EAST END
GIRDERS : 1	448	413	448	413
2	451	417	451	417
3	454	421	454	421
4	457	425	457	425
5	461	430	461	430
6	464	434	464	434
7	467	438	467	438
8	470	442	470	442

REQUIRED SLIP (mm) 10 10
ASSUMED Es = 185,000 MPa, k = 0.0018, u = 0.25
ELONGATION SHOWN IS APPROXIMATE AND MAY BE ADJUSTED BY THE CITY REPRESENTATIVE AFTER ACTUAL STRESS STRAIN PROPERTIES OF THE STRAND TO BE USED ARE AVAILABLE.

5. EACH TENDON SHALL BE JACKED FROM BOTH ENDS SIMULTANEOUSLY.
6. SHEATHS FOR POST-TENSIONING DUCTS SHALL BE GALVANIZED STEEL, RIGID, CORRUGATED TYPE, 75 mm O.D. WITH A MINIMUM WALL THICKNESS OF 0.6 mm.
7. DUCT GROUTING VENTS SHALL BE PROVIDED AT BOTH ENDS OF ALL TENDONS AND AT HIGH AND LOW POINTS.
8. DUCTS FOR PRESTRESSING STEEL SHALL BE SECURELY FASTENED IN PLACE TO PREVENT MOVEMENT UNTIL THE CONCRETE IS PLACED AND HARDENED. DUCTS SHALL BE SUPPORTED AT INTERVALS OF NOT MORE THAN 600 mm.
9. MINIMUM STRENGTH OF GROUT FOR TENDON DUCTS SHALL BE 45 MPa AT 28 DAYS.
10. SPIRAL TO BE SIZE 15M, 280 O.D., 7 TURNS, 51 mm PITCH.
11. CONCRETE STRENGTH OF DECK AND DIAPHRAGMS AT TRANSFER SHALL BE 30 MPa.
12. CONCRETE STRENGTH OF PRECAST GIRDERS AT TRANSFER OF POST-TENSIONING SHALL BE 35 MPa MINIMUM.

GENERAL DECK AND DIAPHRAGM

1. CONCRETE SHALL BE HIGH PERFORMANCE CONCRETE AS SPECIFIED IN THE SPECIAL PROVISIONS. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 35 MPa AT 28 DAYS.
2. ORDER OF CASTING DECK SLABS AND DIAPHRAGMS TO FOLLOW NOTE 4 UNDER SUPERSTRUCTURE CONSTRUCTION SEQUENCE.
3. ALL EXPOSED EDGES OF CONCRETE TO BE CHAMFERED 20 mm UNLESS NOTED OTHERWISE.
4. ALL ANCHORAGE RECESSES SHALL BE ABRASIVE BLAST CLEANED AND COATED WITH AN APPROVED EPOXY BONDING AGENT PRIOR TO CASTING OF 35 MPa CONCRETE IN RECESSES.
5. CLEAR COVER TO REINFORCING (UNLESS NOTED OTHERWISE):
TOP DECK 70 mm
BOTTOM DECK 40 mm
REMAINDER 60 mm
6. CLEAR COVER TO TENDON DUCTS:
DUCT 45 mm
ANCHORAGE 100 mm
7. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CSA STANDARD G30.18-M92, GRADE 400W (DEFORMED).
8. ALL REINFORCING MARKED "ME" IS EPOXY COATED.
9. WHERE PERMITTED ALL LAPS OF REINFORCING FOR SPLICES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

SIZE	LAP LENGTH FOR CLASS B SPLICE			
	UNCOATED	UNCOATED TOP BARS*	EPoxy COATED	EPoxy COATED TOP BARS*
10M	390	550	470	665
15M	485	680	580	820
20M	590	830	705	995
25M	900	1260	1360	1545
30M	1260	1765	1895	2145
35M	1805	2530	2715	3075

* HORIZONTAL BARS WITH MORE THAN 300 mm CONCRETE BELOW BARS.

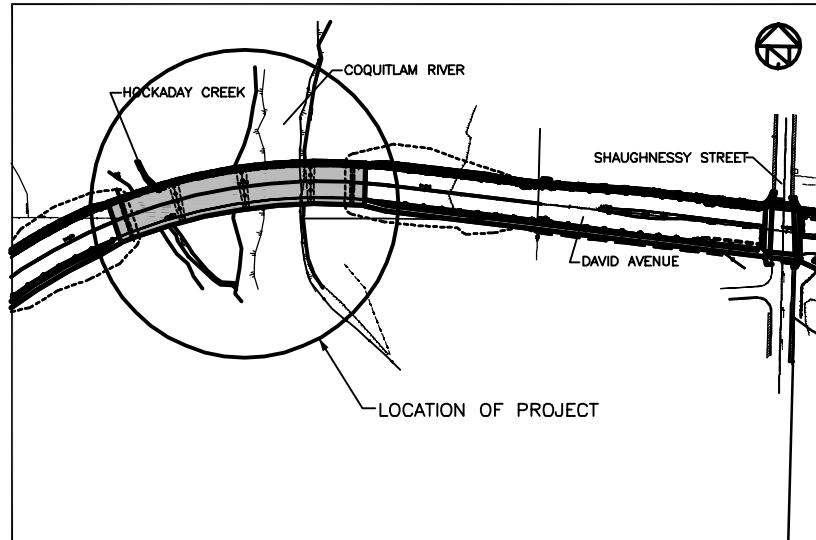
10. HOOKS ON REINFORCING STEEL SHALL BE STANDARD HOOKS UNLESS NOTED OTHERWISE.
11. SPLICING OF TRANSVERSE STEEL IS NOT PERMITTED EXCEPT AS SHOWN. LONGITUDINAL STEEL MAY BE SPLICED SUCH THAT NOT MORE THAN ONE THIRD OF THE STEEL IS SPLICED AT ANY CROSS-SECTION OF THE DECK.
12. MECHANICAL COUPLERS FOR REINFORCING BARS SHALL DEVELOP NOT LESS THAN 125% OF THE YIELD STRENGTH OF THE BAR. COUPLERS FOR TOP STEEL TO BE EPOXY COATED.
13. SCREED ELEVATIONS TO BE ADJUSTED FOR FALSEWORK DEFLECTIONS TO ACHIEVE THEORETICAL PROFILE.
14. ALL FORMWORK TO BE REMOVED.

SUPERSTRUCTURE CONSTRUCTION SEQUENCE

1. COMPLETE PIER COLUMNS AND CONSTRUCT ABUTMENT BEAMS.
2. ERECT GIRDERS ON FALSEWORK, AT ABUTMENTS AND PIER.
3. CONSTRUCT END DIAPHRAGMS AND PIER CROSSHEAD BEAM.
4. FIRST STAGE POST-TENSIONING.
5. CONSTRUCT DECK SLAB.
6. SECOND STAGE POST-TENSIONING.
7. GROUT TENDONS.
8. PLACE CONCRETE IN ANCHORAGE RECESSES.
9. REMOVE FALSEWORK.
10. COMPLETE APPROACH SLABS, AND BARRIERS.

DECK WATERPROOFING

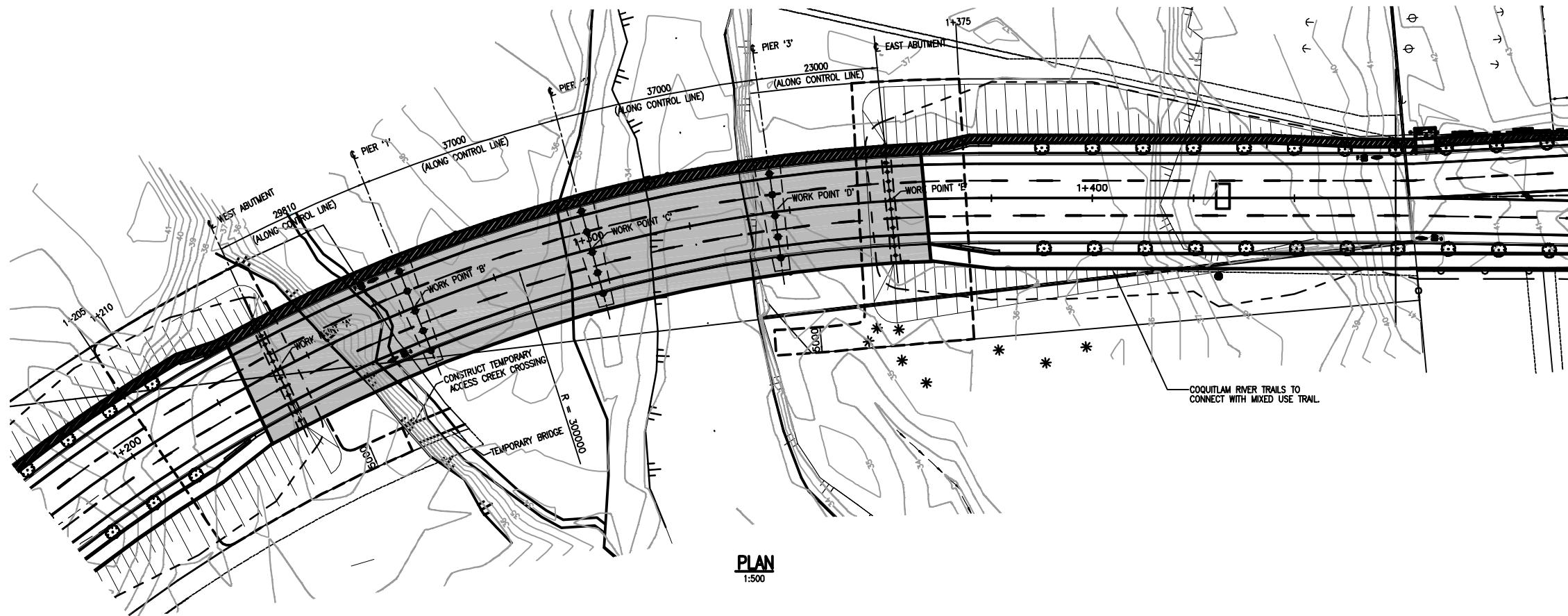
1. THE DECK AND BOTH APPROACH SLABS OF THE BRIDGE ARE TO BE PROTECTED BY A WATERPROOFING MEMBRANE. THE MEMBRANE SHALL BE CONTINUOUS BETWEEN THE ENDS OF THE APPROACH SLABS.
2. THE MEMBRANE SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH SECTION 419 - CONCRETE BRIDGE DECK WATERPROOFING SYSTEM - PREFABRICATED MEMBRANE" OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2004 (SSH2).
3. MEMBRANE DRAINS (WEEP HOLES) SHALL BE INSTALLED AS SHOWN ON SP419-03 AT 200mm CENTRES, 150 FROM THE FACE OF THE ROADSIDE BARRIER IN THE GIRDERS SUPPORTED PORTION OF THE DECK.
4. WITH RESPECT TO SECTION 419, THE JOINT BETWEEN THE DECK AND THE APPROACH SLAB SHALL BE TREATED AS A FIXED JOINT. THE END OF THE APPROACH SLAB SHALL BE THE BRIDGE END.
5. AT THE DECK/APPROACH SLAB JOINT THE GAP FORMED IN THE PARAPET SHALL BE FILLED WITH SIKA 2C N/S POLYURETHANE SEALANT OR APPROVED EQUAL AS SHOWN ON DWG. No. PV1041-BB-C-216.



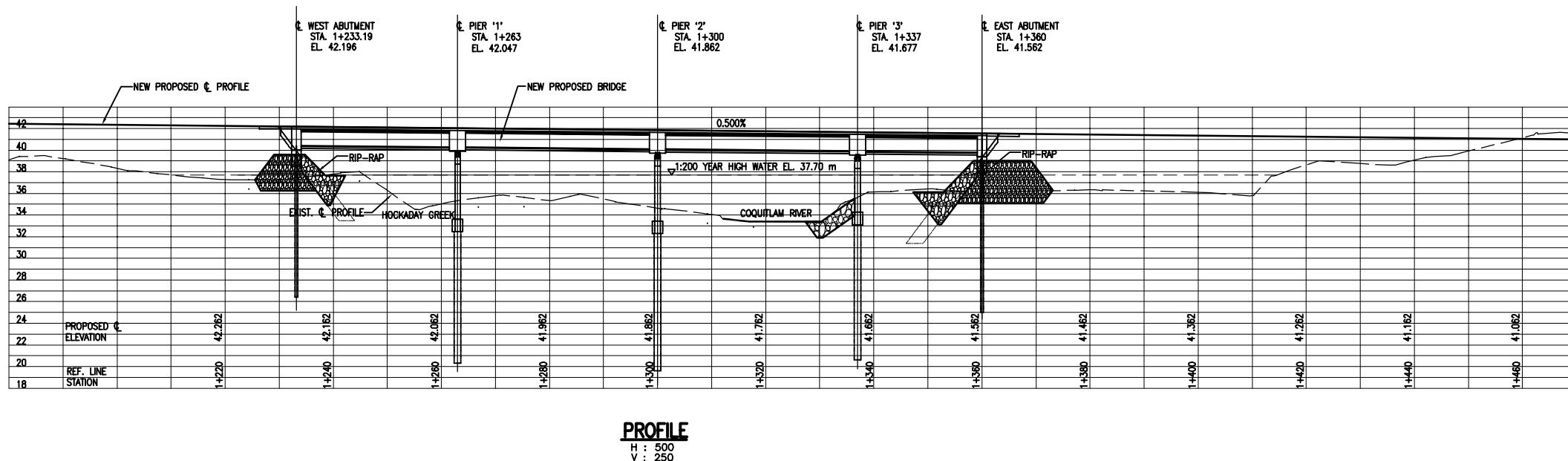
KEY PLAN

DRAWING INDEX	
DWG. No.	DESCRIPTION
PV1041BB-C-200	GENERAL NOTES
PV1041BB-C-201	SITE PLAN
PV1041BB-C-202	GENERAL ARRANGEMENT
PV1041BB-C-203	ABUTMENT BEAM AND PIER BEAM SHT. 1 OF 2
PV1041BB-C-204	ABUTMENT BEAM AND PIER BEAM SHT. 2 OF 2
PV1041BB-C-205	WEST ABUTMENT DETAILS
PV1041BB-C-206	EAST ABUTMENT DETAILS
PV1041BB-C-207	ABUTMENT REINFORCING PLAN AND ELEVATION
PV1041BB-C-208	ABUTMENT REINFORCING SECTIONS AND DETAILS
PV1041BB-C-209	PIER BEAM REINFORCING PLAN AND SECTIONS
PV1041BB-C-210	SPARE
PV1041BB-C-211	SPAN '1' LAYOUT AND DETAILS
PV1041BB-C-212	SPAN '2' LAYOUT AND DETAILS
PV1041BB-C-213	SPAN '3' LAYOUT AND DETAILS
PV1041BB-C-214	SPAN '4' LAYOUT AND DETAILS
PV1041BB-C-215	DECK PLAN AND SECTIONS
PV1041BB-C-216	DECK SECTIONS AND DETAILS
PV1041BB-C-217	DECK REINFORCING PLAN AND SECTIONS
PV1041BB-C-218	DECK REINFORCING SECTIONS SHT. 1 OF 2
PV1041BB-C-219	DECK REINFORCING SECTIONS SHT. 2 OF 2
PV1041BB-C-220	SECTIONS AND DETAILS
PV1041BB-C-221	DUCT HANGER DETAILS
PV1041BB-C-222	WATERWORKS
PV1041BB-C-223	WATERWORKS SECTIONS AND DETAILS
PV1041BB-C-224	BANK PROTECTION WORKS SHT. 1 OF 2
PV1041BB-C-225	BANK PROTECTION WORKS SHT. 2 OF 2

STANDARD DRAWINGS	
DWG. No.	DESCRIPTION
2784-1-P	STANDARD BRIDGE PARAPET 810 mm HIGH
2784-2-H	STANDARD BRIDGE PARAPET 810 mm HIGH TRANSITION
2785-2	STANDARD BRIDGE PARAPET STEEL RAILING (1995)
2891-2	STANDARD STEEL BICYCLE FENCE
SP419-01	BRIDGE DECK MEMBRANE - DETAIL AT PARAPET
SP419-03	BRIDGE DECK MEMBRANE - DETAIL AT DRAIN AND WEEP HOLE
SP419-04	BRIDGE DECK MEMBRANE - DETAIL AT FIXED JOINT (DECK/APPROACH SLAB)
SP419-07	BRIDGE DECK MEMBRANE - DETAIL AT BRIDGE END.
11-SP 219	CATCH BASIN FRAME



WORK POINT CO-ORDINATES		
	N	E
WORK POINT 'A'	5 462 310.128	516 601.965
WORK POINT 'B'	5 462 319.280	516 630.322
WORK POINT 'C'	5 462 326.656	516 666.556
WORK POINT 'D'	5 462 329.518	516 703.421
WORK POINT 'E'	5 462 329.001	516 726.410



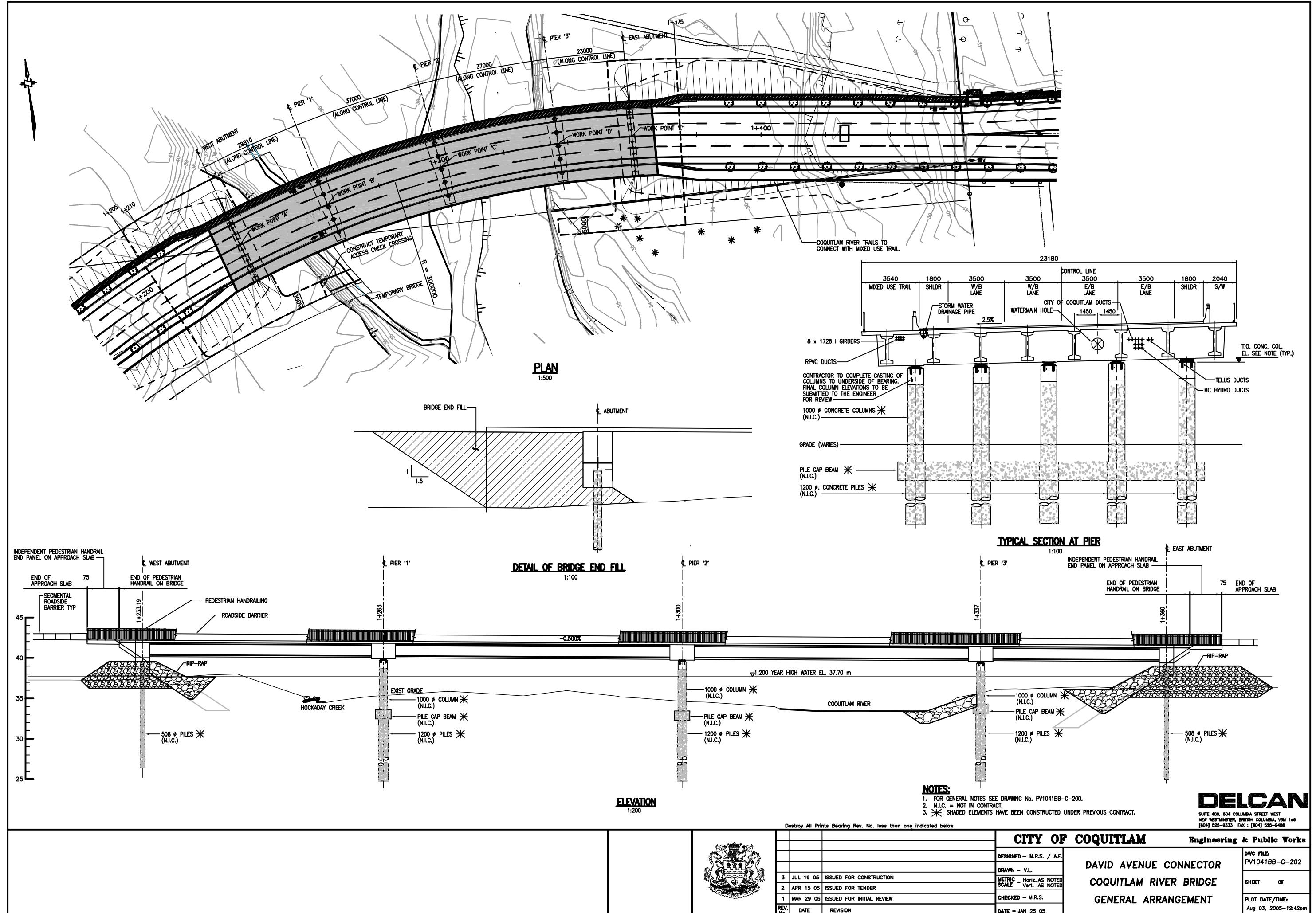
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1. FOR GENERAL NOTES SEE DRAWING NO. PV1041BB-C-200.

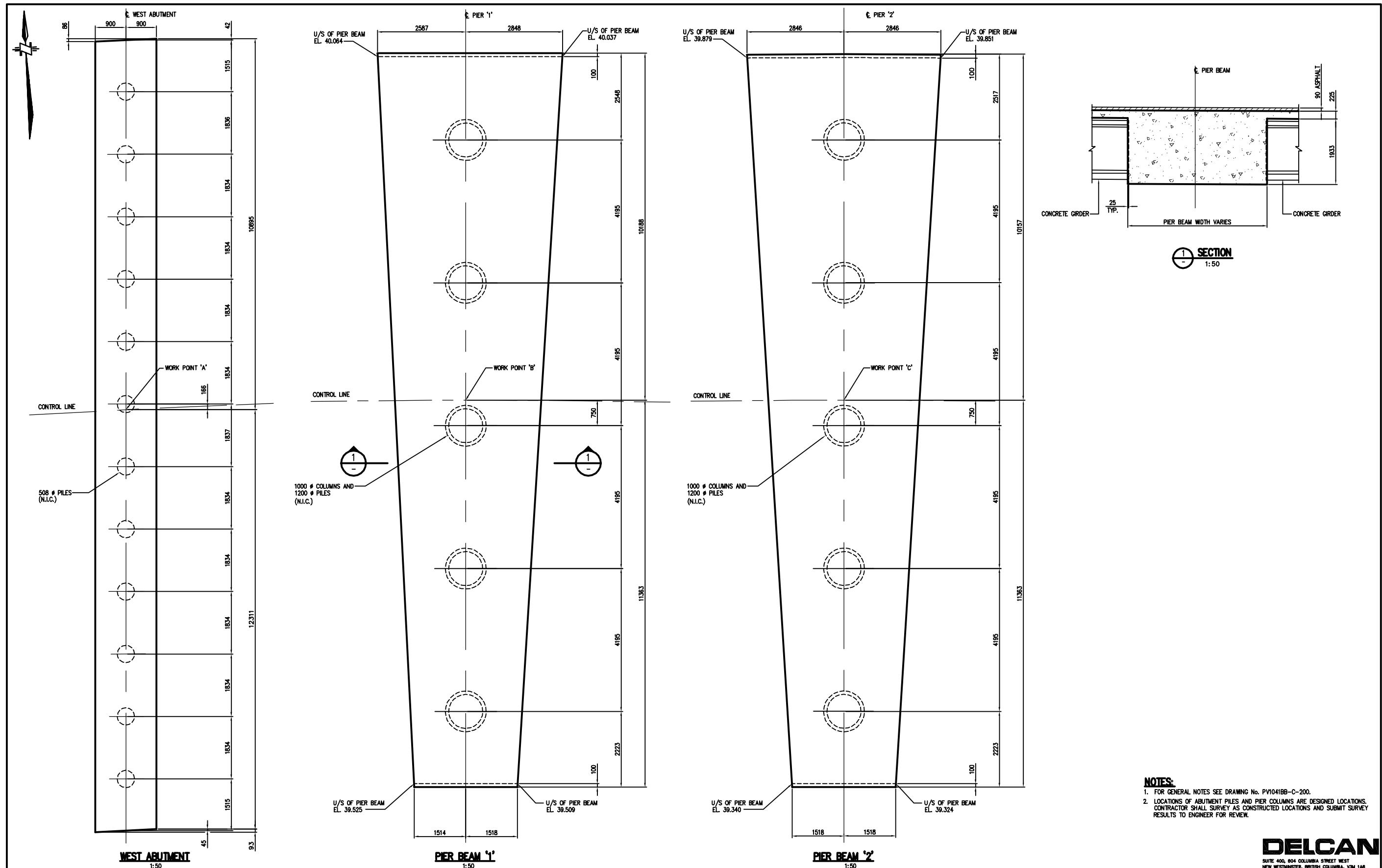
Destroy All Prints Bearing Rev. No. less than one indicated below



CITY OF COQUITLAM **Engineering & Public Works**
DAVID AVENUE CONNECTOR **PLOT DATE/TIME:**
COQUITLAM RIVER BRIDGE **Aug 03, 2005-12:40pm**
SITE PLAN

DESIGNED - M.R.S. / A.F.	DWG FILE: PV1041BB-C-201
DRAWN - V.L.	
Metric - Horiz. AS NOTED SCALE - Vert. AS NOTED	
CHECKED - M.R.S.	
REV. NO. DATE	REVISION
	DATE - JAN 25 05





NOTES:

1. FOR GENERAL NOTES SEE DRAWING No. PV1041BB-C-200.
2. LOCATIONS OF ABUTMENT PILES AND PIER COLUMNS ARE DESIGNED LOCATIONS. CONTRACTOR SHALL SURVEY AS CONSTRUCTED LOCATIONS AND SUBMIT SURVEY RESULTS TO ENGINEER FOR REVIEW.

DELCAN
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(604) 525-9333 FAX: (604) 525-0458

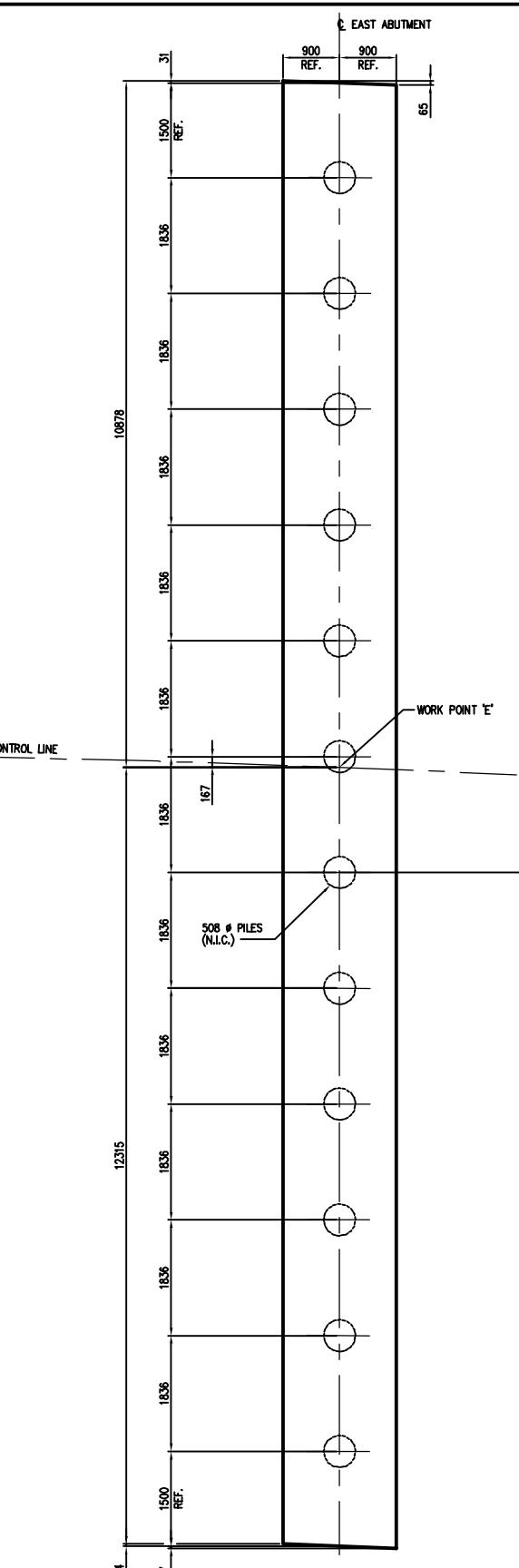
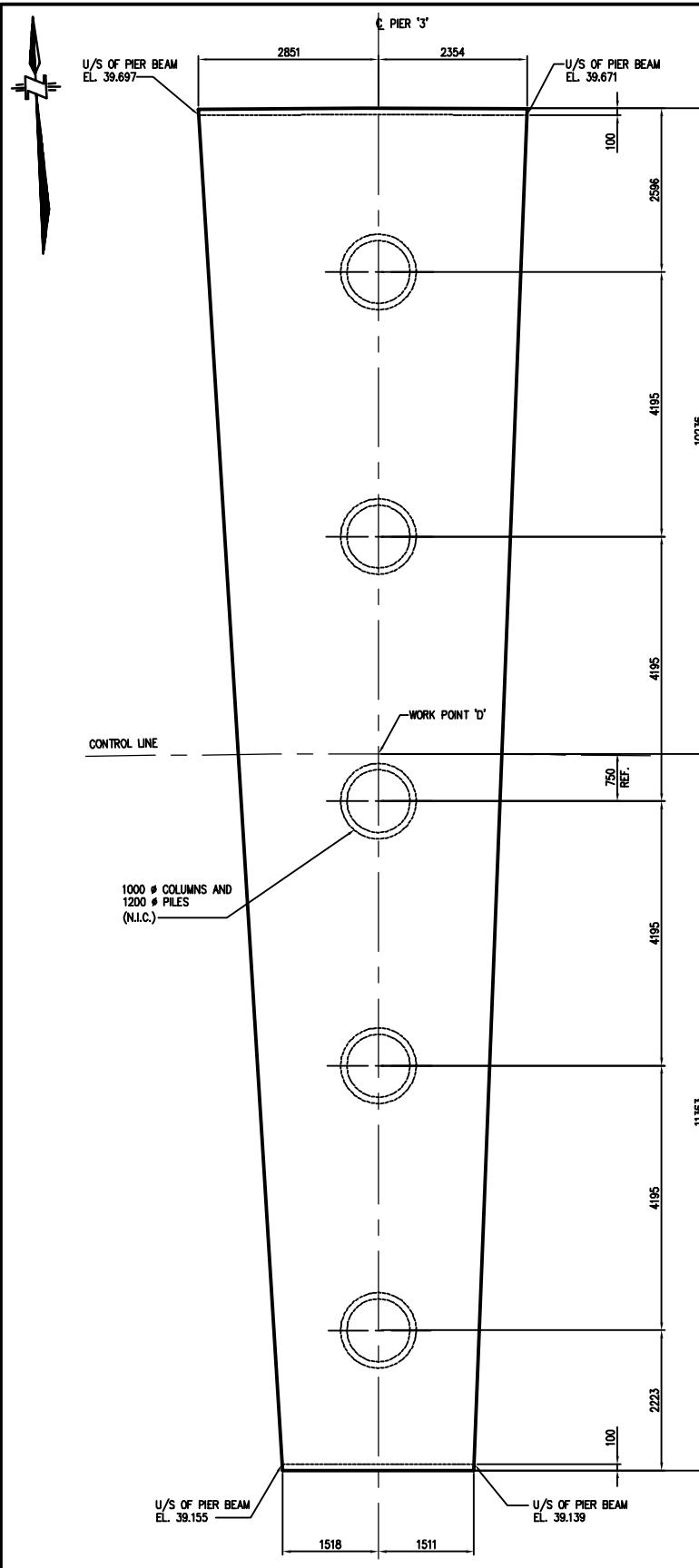
CITY OF COQUITLAM Engineering & Public Works
DAVID AVENUE CONNECTOR COQUITLAM RIVER BRIDGE ABUTMENT BEAM & PIER BEAM
PLOT DATE/TIME: Aug 03, 2005-12:43pm

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DESIGNED - M.R.S. / A.F.	DRAWN - V.L.	METRIC - Horiz. AS NOTED SCALE - Vert. AS NOTED	CHECKED - M.R.S.	DATE - JAN 25 05
3 JUL 19 05 ISSUED FOR CONSTRUCTION				
2 APR 15 05 ISSUED FOR TENDER				
1 MAR 29 05 ISSUED FOR INITIAL REVIEW				
REV. NO.	DATE	REVISION		



PIER '3' FOOTING

EAST ABUTMENT

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		DESIGNED - M.R.S. / A.F.		DWG FILE: PV1041BB-C-204
		DRAWN - V.L.		SHEET 2 OF 2
3	JUL 10 05	ISSUED FOR CONSTRUCTION		
2	APR 15 05	ISSUED FOR TENDER		
1	MAR 29 05	ISSUED FOR INITIAL REVIEW		
REV. NO.	DATE	REVISION	DATE - JAN 25 05	PLOT DATE/TIME: Aug 03, 2005-12:43pm
			DAVID AVENUE CONNECTOR COQUITLAM RIVER BRIDGE ABUTMENT BEAM & PIER BEAM	

NOTES:

1. FOR GENERAL NOTES SEE DRAWING PV1041BB-C-200.
2. N.I.C. = NOT IN CONTRACT.
3. LOCATIONS OF ABUTMENT PILES AND PIER COLUMNS ARE DESIGNED LOCATIONS. CONTRACTOR SHALL SURVEY AS CONSTRUCTED LOCATIONS AND SUBMIT SURVEY RESULTS TO ENGINEER FOR REVIEW.

DELCAN

SUITE 400, 804 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A6

The editor wishes to thank Mr. W. H. Gandy.

DMG EIE:

ECTOR | PV1041BB-C-204

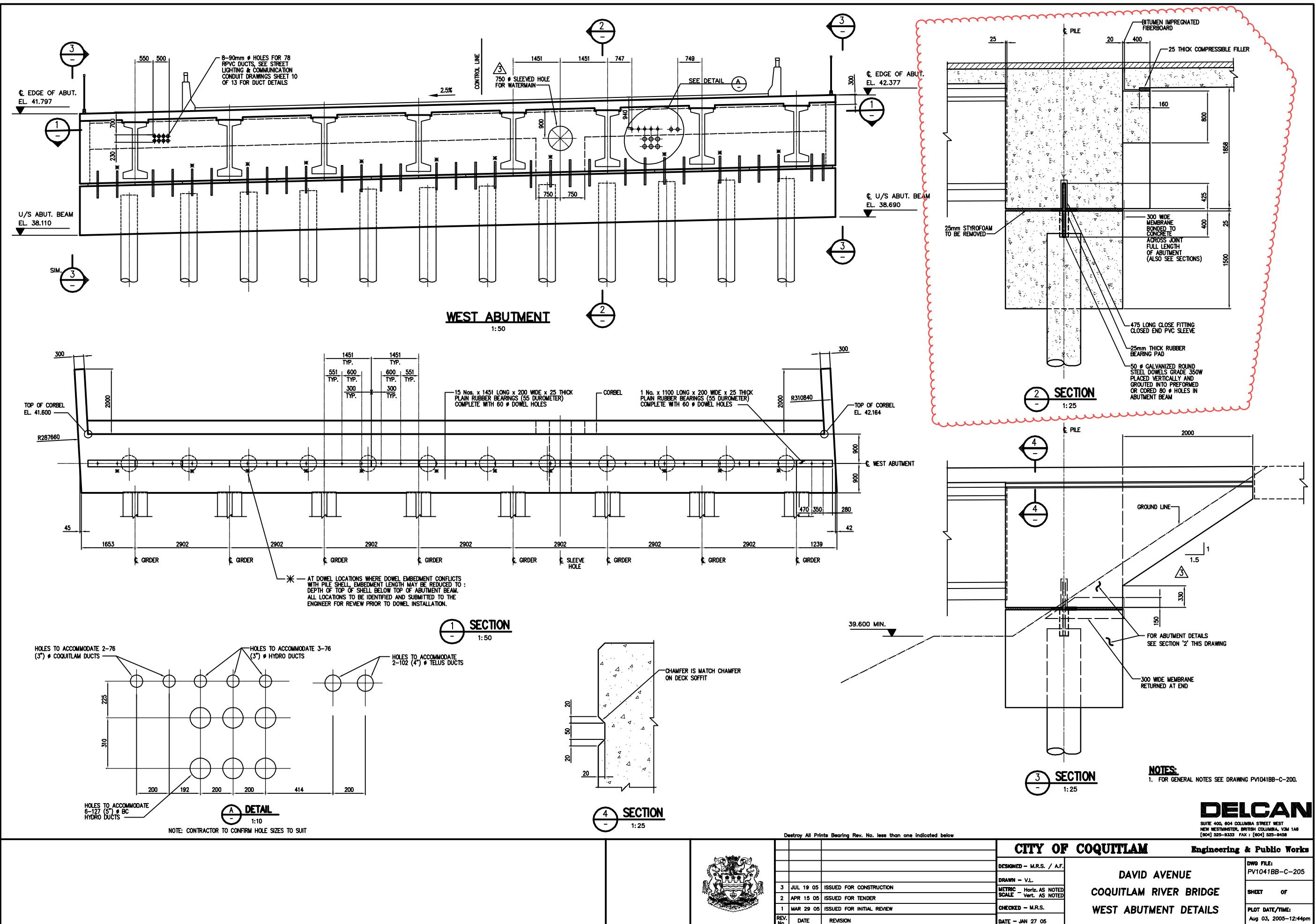
BRIDGE SHEET 2 OF 2

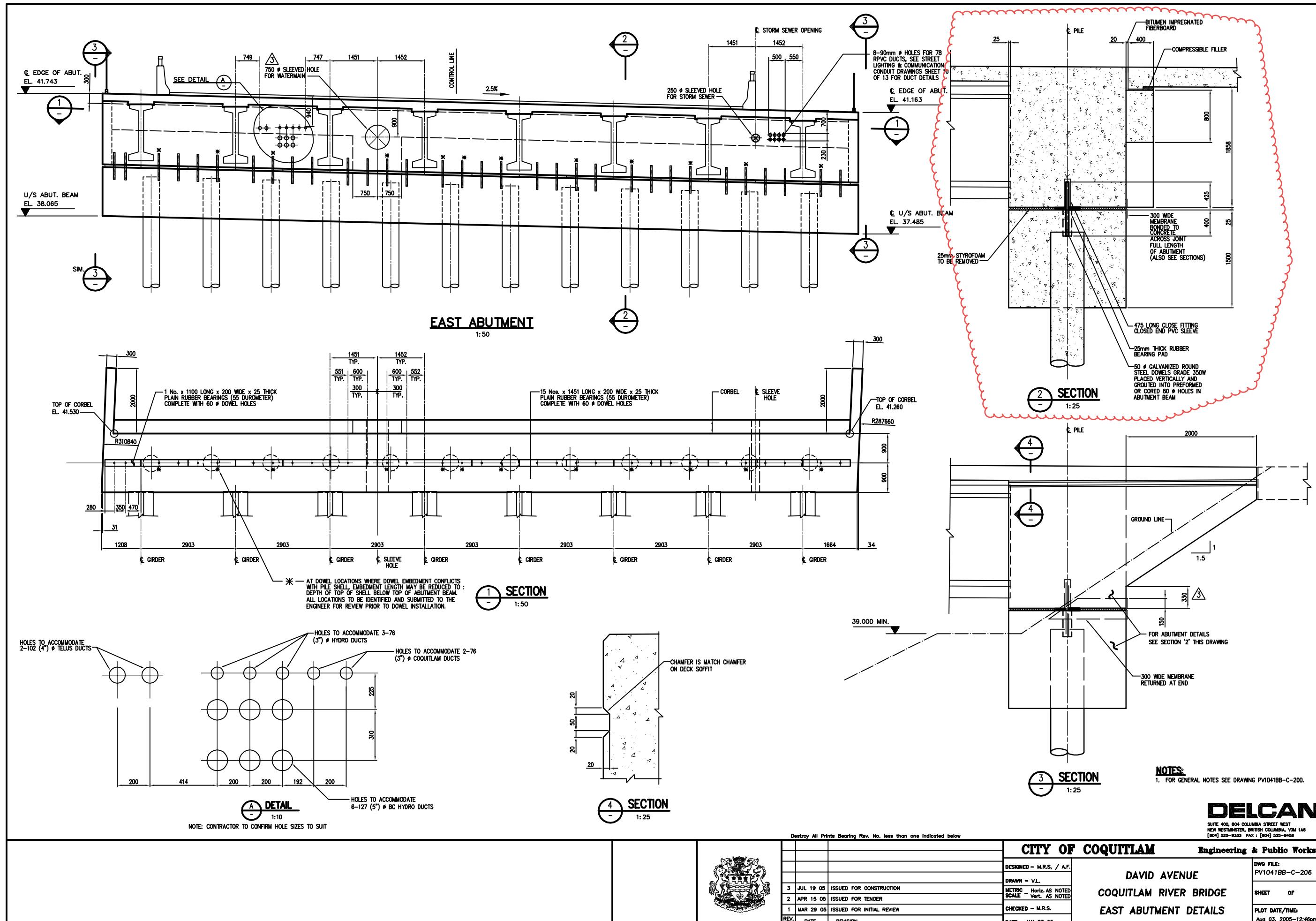
DR. BEAM

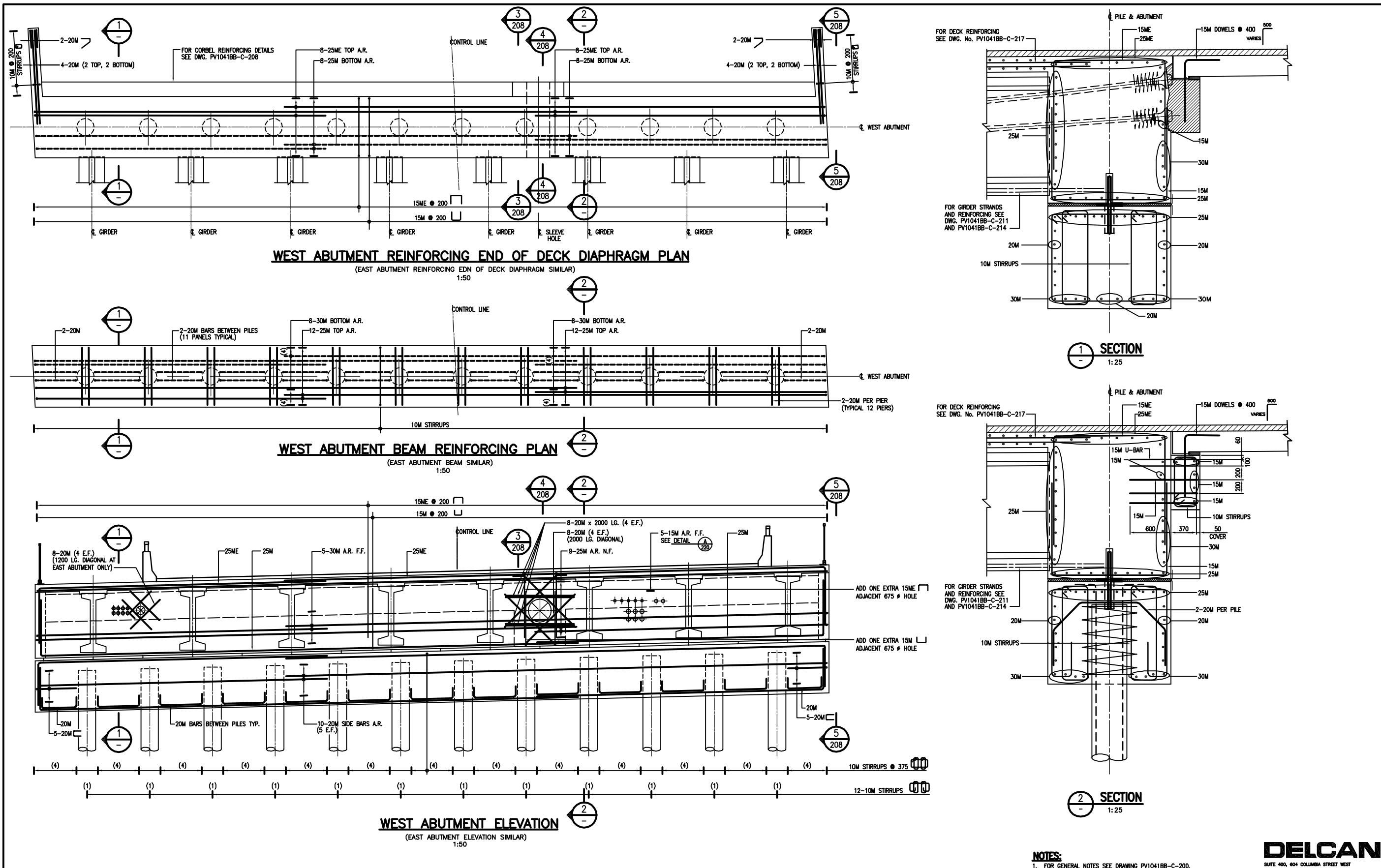
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NOTES:
1. FOR GENERAL NOTES SEE DRAWING PV1041BB-C-200.

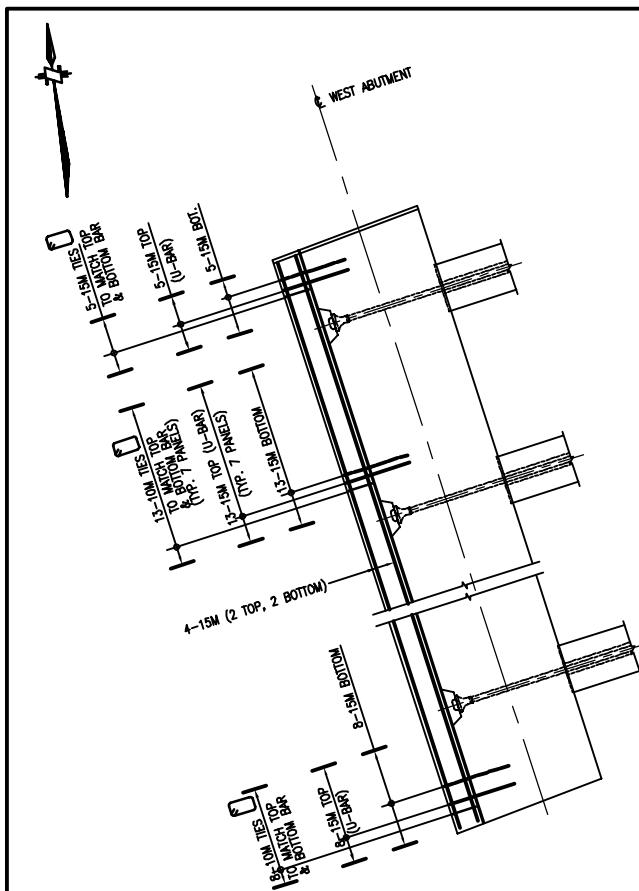
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CITY OF COQUITLAM			Engineering & Public Works
DESIGNED - M.R.S. / A.F.	DRAWN - V.L.	METRIC - Horiz. AS NOTED SCALE - Vert. AS NOTED	DWG FILE: PV1041BB-C-207
			SHEET OF
3 JUL 19 05 ISSUED FOR CONSTRUCTION			PLOT DATE/TIME:
2 APR 15 05 ISSUED FOR TENDER			Aug 03, 2005-12:47pm
1 MAR 29 05 ISSUED FOR INITIAL REVIEW			
REV. NO.	DATE	REVISION	DATE - MAY 28 04

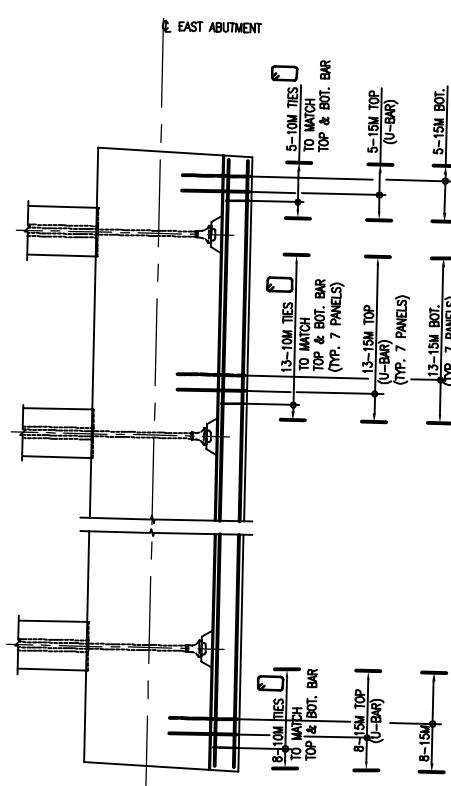


DAVID AVENUE
COQUITLAM RIVER BRIDGE
ABUTMENT REINF. PLAN & ELEV.

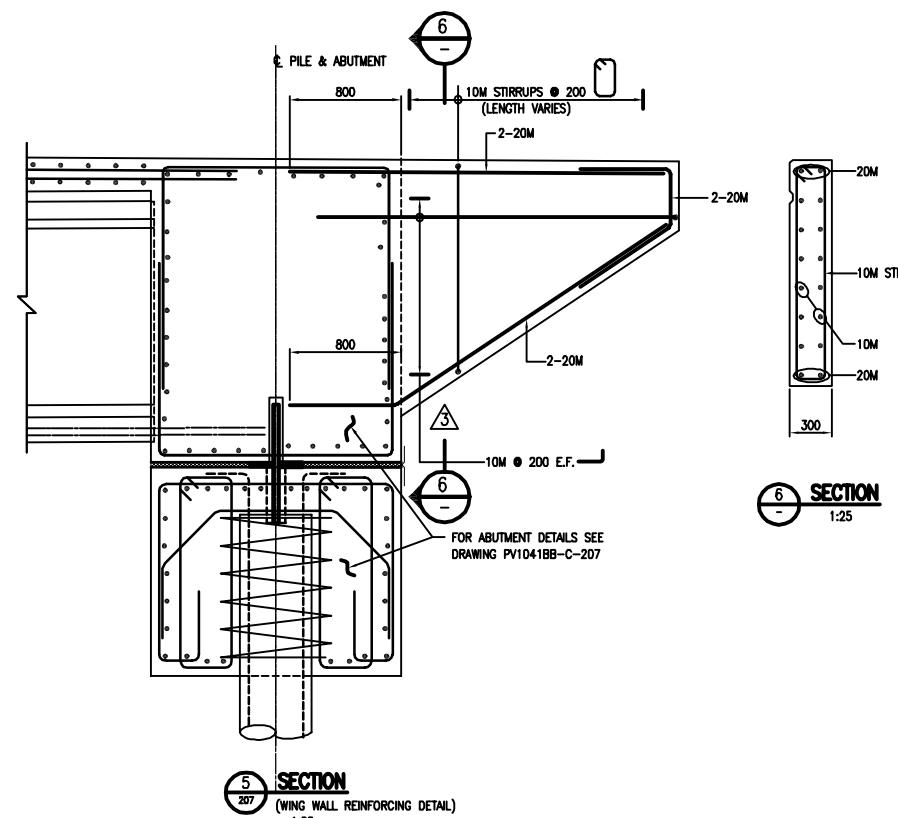
DELCAN
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NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A6
[604] 522-9333 FAX: [604] 525-9456



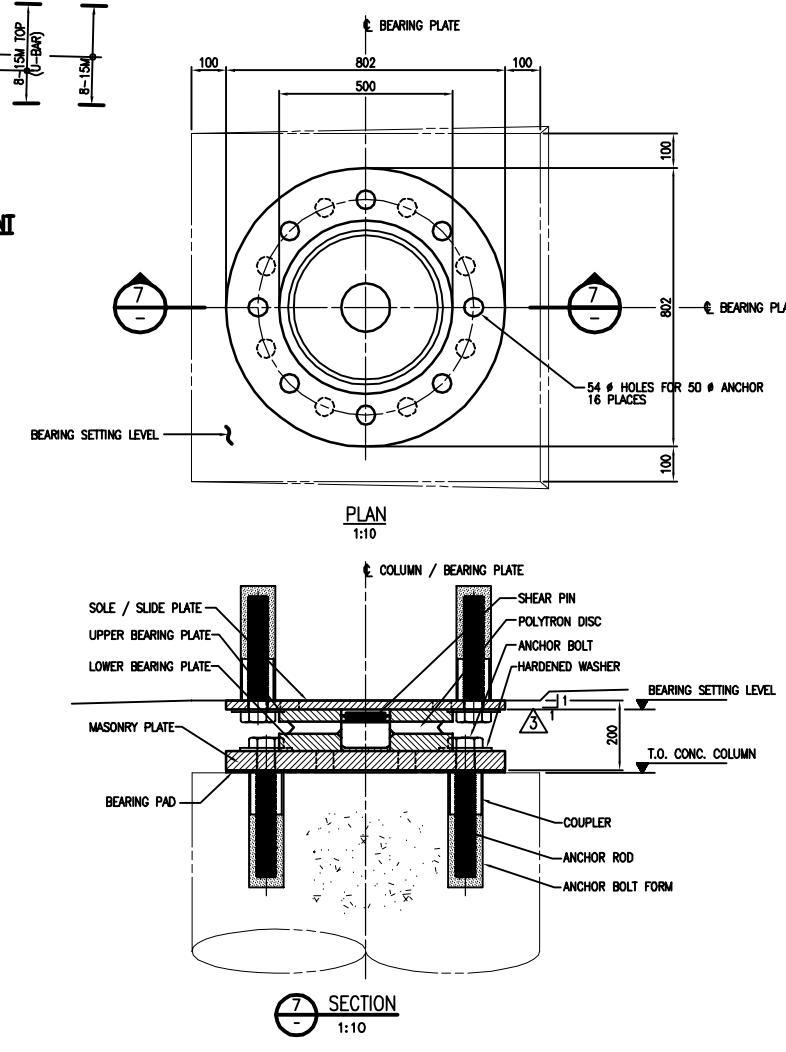
CORBEL PLAN AT WEST ABUTMENT



CORBEL PLAN AT EAST ABUTMENT



5 SECTION
207 (WING WALL REINFORCING DETAIL)



BEARING DETAILS

Doctors: All Prints Bearing Rev. No. less than one indicated below

NOTES:



Destroy All Prints Bearing Rev. No. less than one indicated below			[004] 525-9333 FAX : [004] 525-9456	
			CITY OF COQUITLAM Engineering & Public Works	
			DAVID AVENUE	DWG FILE: PV1041BB-C-208
			COQUITLAM RIVER BRIDGE	SHEET OF
			ABUTMENT REINF. SECTS. & DETS.	PLOT DATE/TIME: Aug 03, 2005-12:48pm
3 JUL 19 05	ISSUED FOR CONSTRUCTION		DESIGNED - M.R.S. / A.F.	
2 APR 15 05	ISSUED FOR TENDER		DRAWN - V.L.	
1 MAR 29 05	ISSUED FOR INITIAL REVIEW		METRIC - Horiz. AS NOTED SCALE - Vert. AS NOTED	
REV. No.	DATE	REVISION	CHECKED - M.R.S.	
			DATE - Feb 10 05	

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NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A6

DELCAN
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VANCOUVER, BRITISH COLUMBIA, V6B 5A2

NEW WESTMINSTER, BRITISH COLUMBIA V3M 1A8
[604] 525-9333 FAX : [604] 525-9458

Reviewing the Public Works

Engineering & Public Works

DWG FILE:

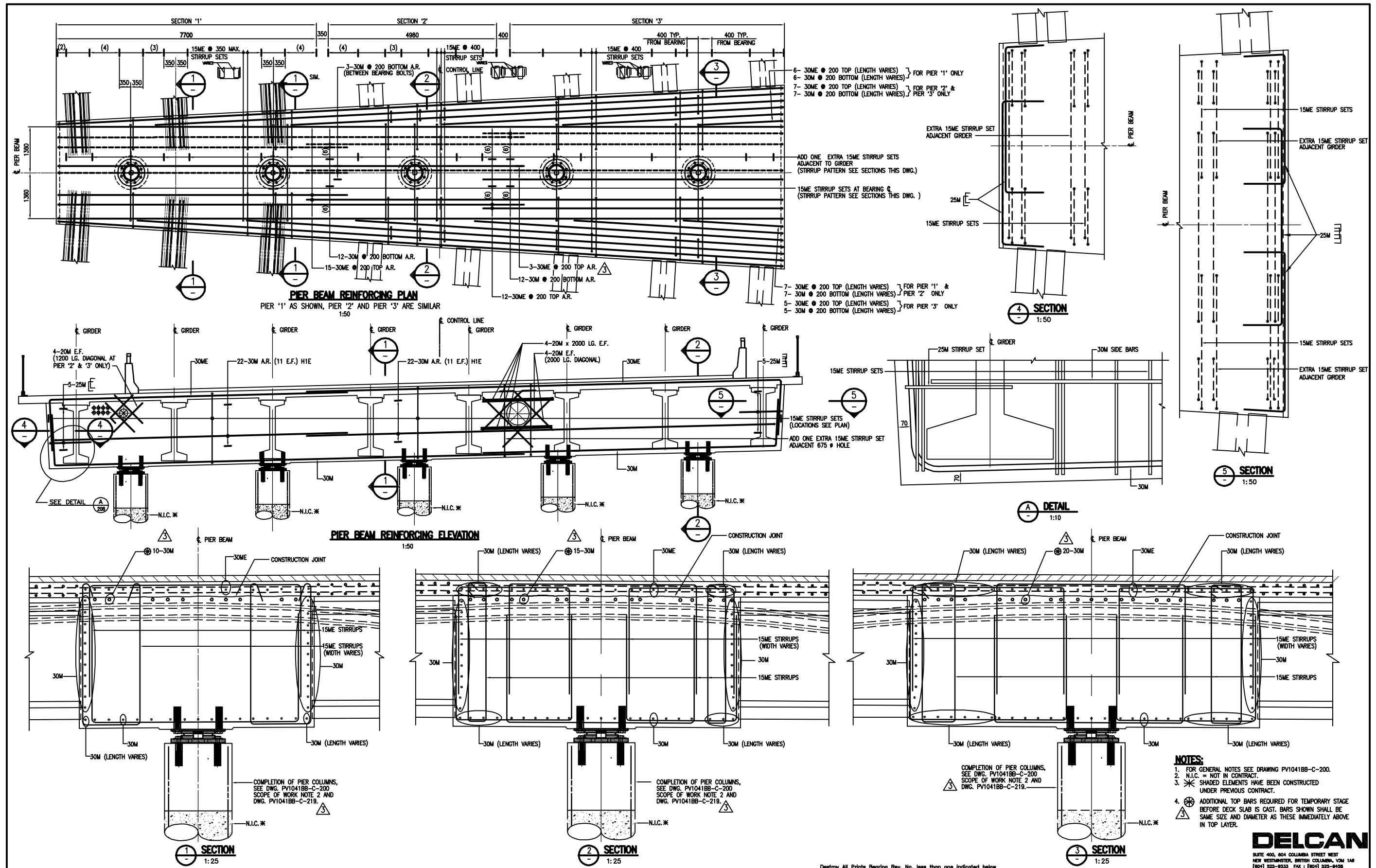
PV1041BB-C-208

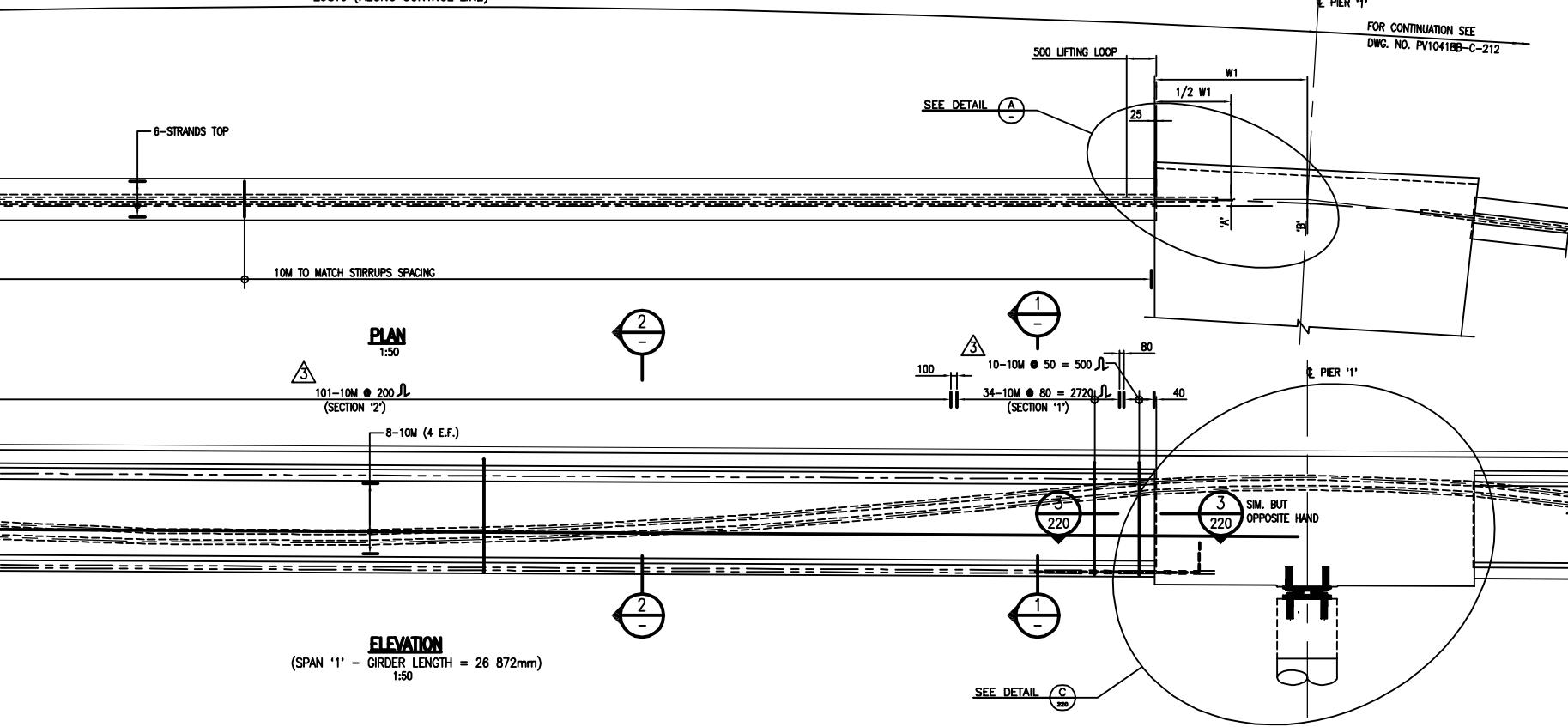
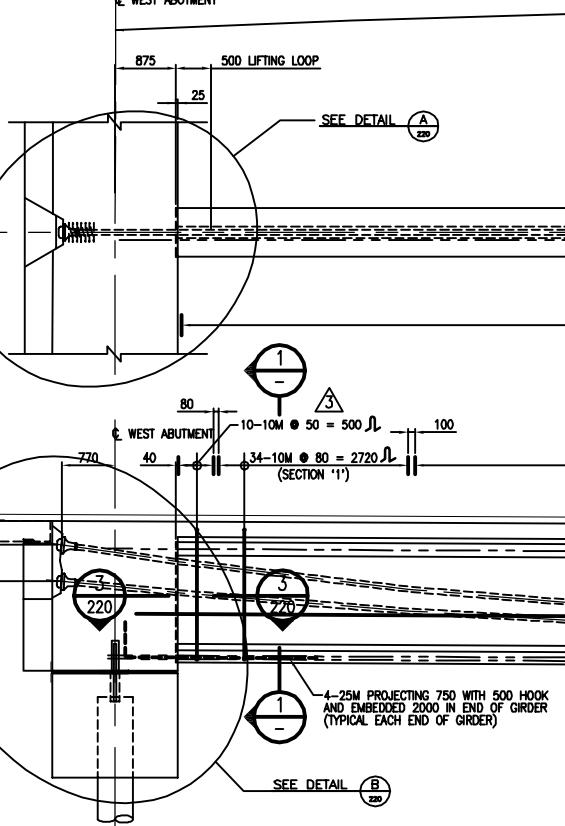
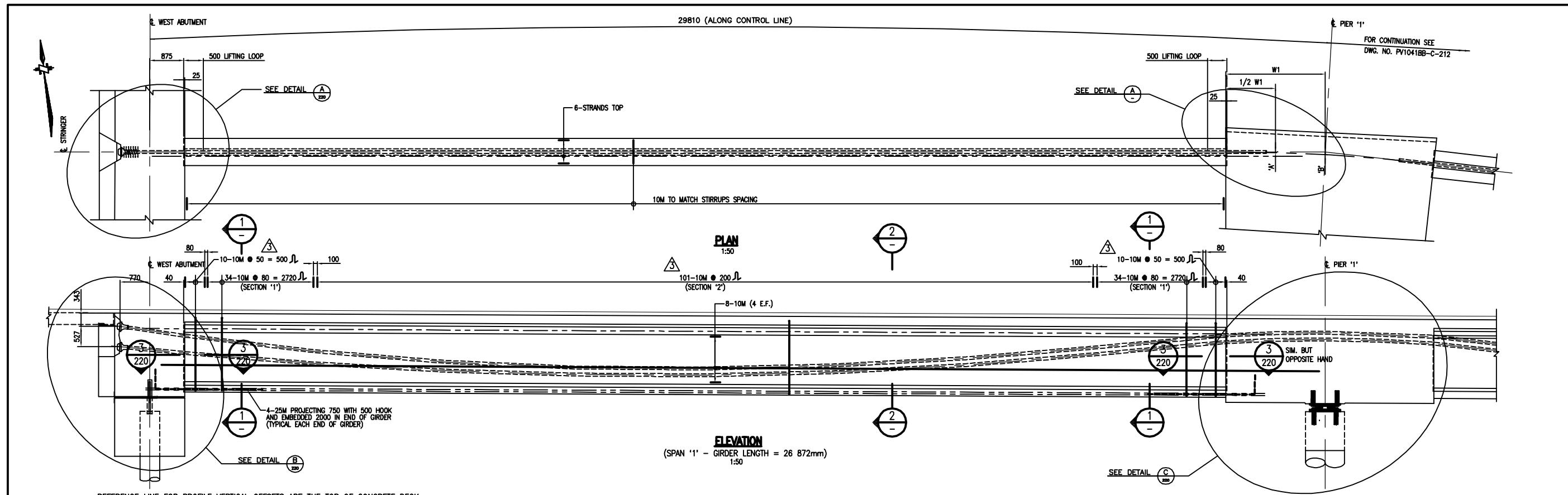
RIDGE **SHEET** **OF**

• BETS Page 20

• & DETS. PLOT DATE/TIME:

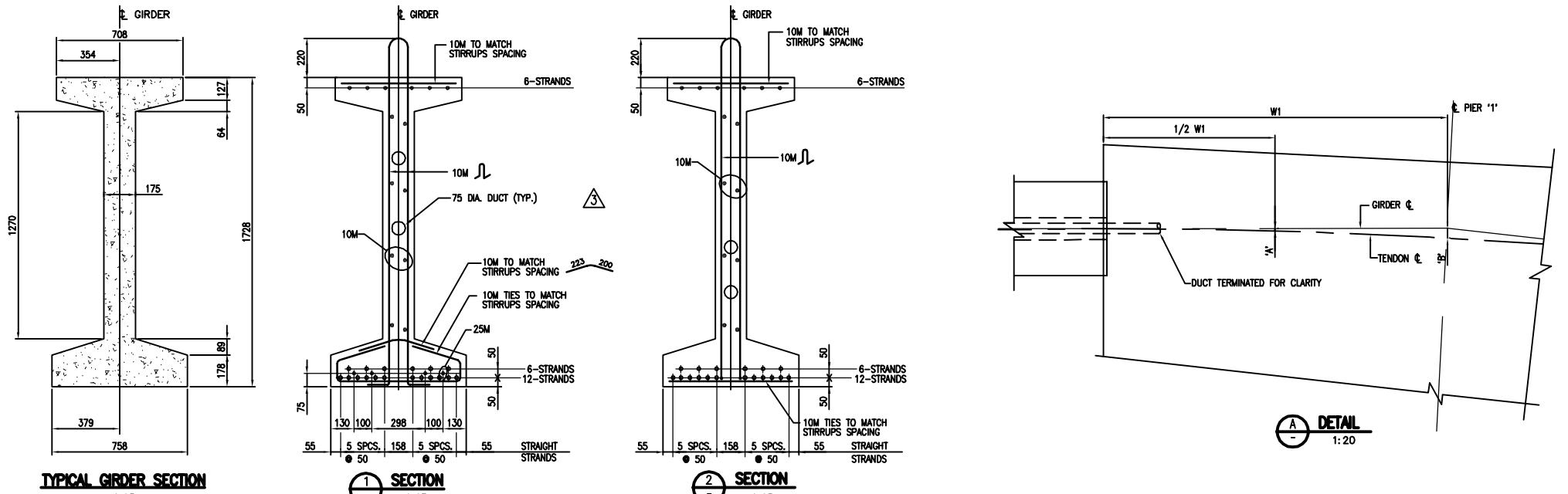
Aug 03, 2005-12:48pm





REFERENCE LINE FOR PROFILE VERTICAL OFFSETS ARE THE TOP OF CONCRETE DECK.
(300 ABOVE TOP OF PRECAST GIRDER)
OFFSETS ARE TO CENTERLINE OF TENDON.
NO ALLOWANCE HAS BEEN MADE FOR OFFSET OF THE TENDON WITHIN THE DUCT.
DISTANCE IS RELATIVE TO LEFT END OF GIRDER AS SHOWN

PROFILE 1 (mm)	870	940	1020	1273	1443	1528	1529	1431	1233	936	607	545	525
PROFILE 2 (mm)	343	450	572	958	1216	1347	1354	1256	1058	761	432	370	350
DISTANCE (m)	-1.645 (@ ANCHORAGE)	-0.875 (@ WEST ABUTMENT)	0 (END OF GIRDER)	3.359	6.718	10.077	13.436	16.794	20.153	23.512	26.871 (END OF GIRDER)	26.871+1/2 W1 (@ PIER '1')	



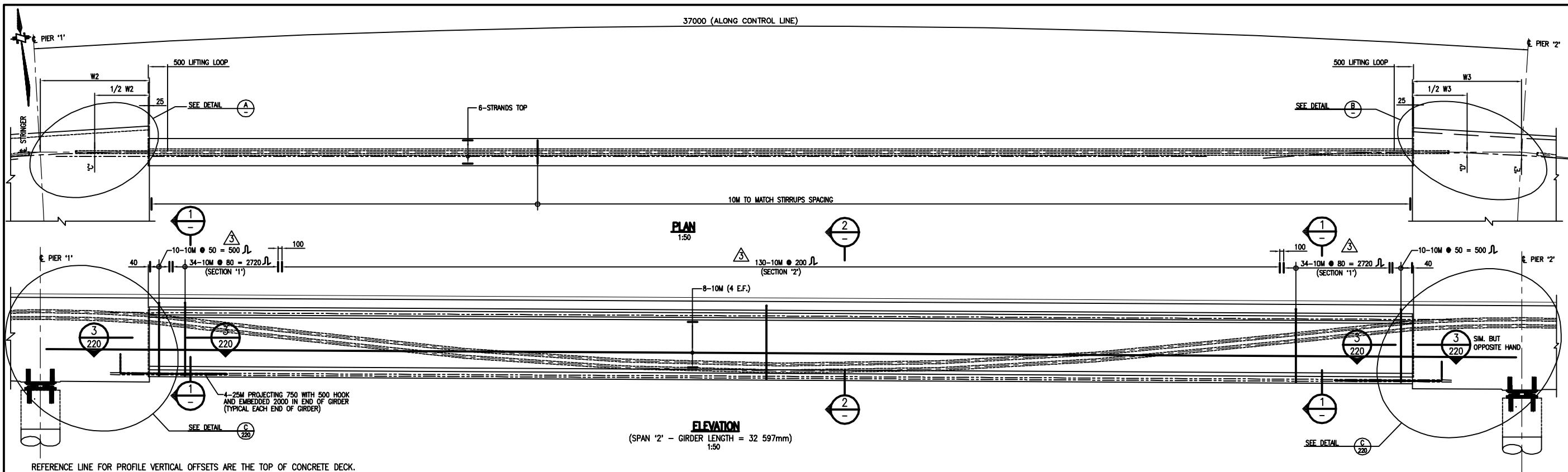
TYPICAL GIRDER SECTION

Destroy All Prints Bearing Rev. No. less than one indicated below



CITY OF COQUITLAM Engineering & Public Works
DAVID AVENUE COQUITLAM RIVER BRIDGE SPAN '1' LAYOUT & DETAILS
3 JUL 19 05 ISSUED FOR CONSTRUCTION
2 APR 15 05 ISSUED FOR TENDER
1 MAR 29 05 ISSUED FOR INITIAL REVIEW
REV. NO. DATE REVISION DATE - FEB 10 04
DWG FILE: PV1041BB-C-211
DRAWN - V.L.
METRIC - Horiz. AS NOTED
SCALE - Vert. AS NOTED
CHECKED - M.R.S.
PLOT DATE/TIME: Aug 03, 2005-12:49pm

DELCAN
SUITE 400, 604 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A6
[604] 522-9333 FAX: [604] 525-9456



REFERENCE LINE FOR PROFILE VERTICAL OFFSETS ARE THE TOP OF CONCRETE DECK

REFERENCE LINE FOR PROFILE VERTICES
(300 ABOVE TOP OF PRECAST GIRDERS)

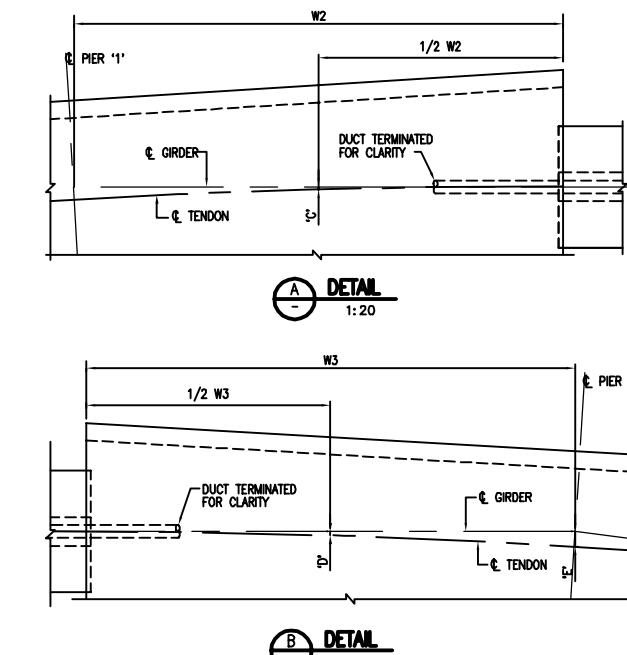
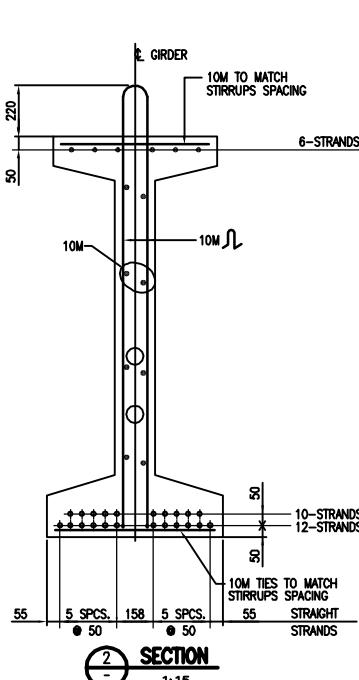
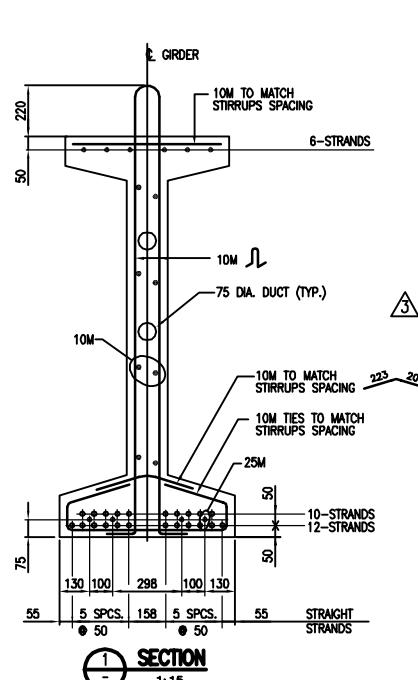
OFFSETS ARE TO CENTERLINE OF TENDON.

NO ALLOWANCE HAS BEEN MADE FOR OFFSET OF THE TENDON WITHIN THE DUE DISTANCE IS RELATIVE TO LEFT END OF CIPPER AS SHOWN.

DISTA

PROFILE 1 (mm)	525	548	616	1053	1468	1717	1800	1717	1468	1058	616	548	525
PROFILE 2 (mm)	350	373	441	878	1293	1542	1625	1542	1293	878	441	373	350
DISTANCE (m)	-W2 (@ PIER '1')	-1/2 W2	0.00 (END OF GIRDER)	4.075	8.149	12.224	16.299	20.373	24.448	28.522	32.597 (END OF GIRDER)	32.597+1/2 W3	32.597+W3 (@ PIER '2')

GIRDER	W2	'C'
1	1534	11
2	1713	11
3	1892	12
4	2071	12
5	2250	13
6	2429	14
7	2609	14
8	2788	15



GIRDER	W3	'D'	'E'
1	1534	12	48
2	1713	13	54
3	1892	15	59
4	2071	16	65
5	2251	18	70
6	2430	19	76
7	2609	20	81
8	2788	22	87

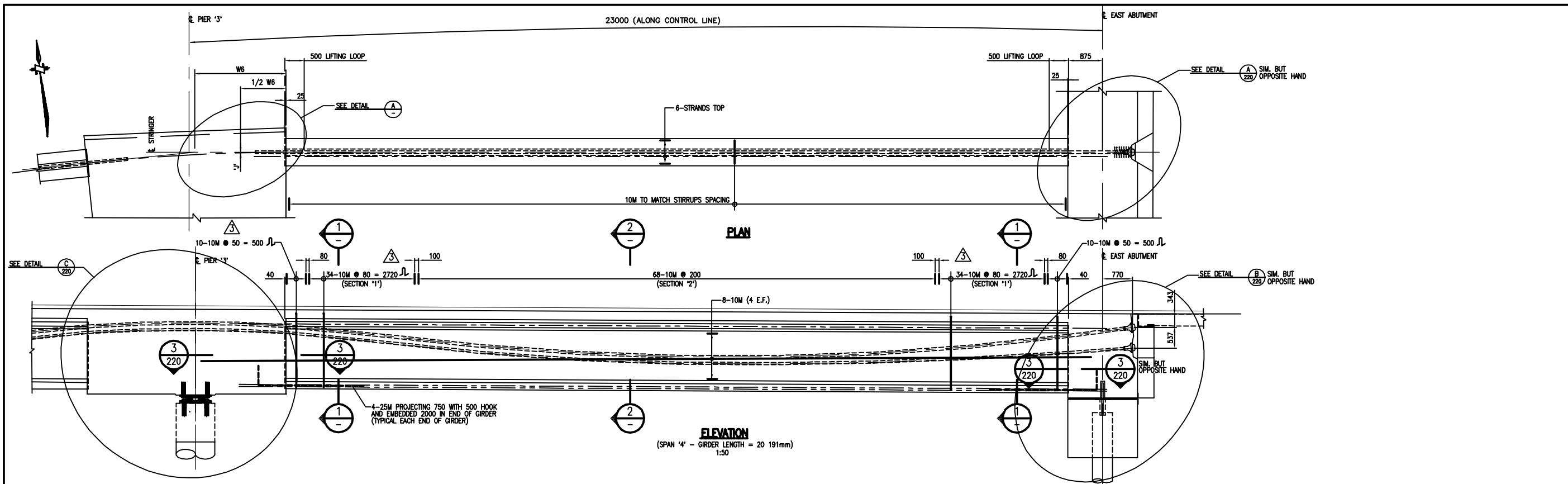
NOTES:

1. FOR GENERAL NOTES SEE DRAWING PV1041BB-C-200.

DELCAN
SUITE 400, 604 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A5



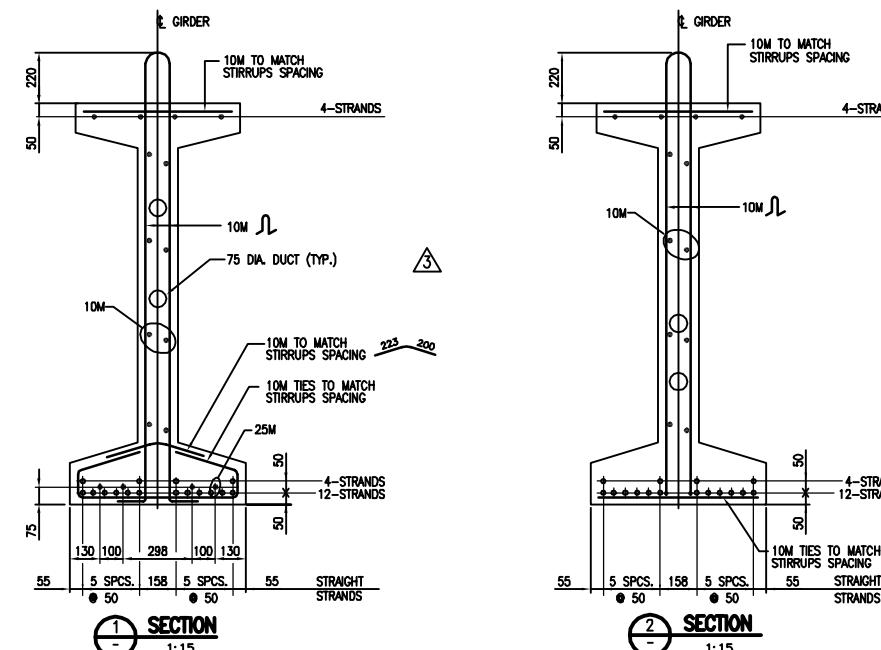
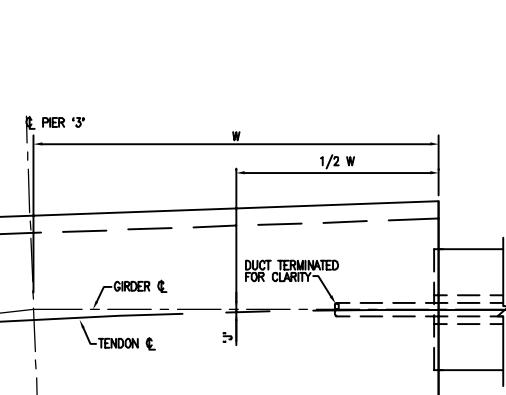
Destroy All Prints Bearing Rev. No. less than one indicated below			[804] 525-9333 FAX : [804] 525-9456	
			CITY OF COQUITLAM Engineering & Public Works	
			DAVID AVENUE	DWG FILE: PV1041BB-C-212
			COQUITLAM RIVER BRIDGE	SHEET OF
			SPAN '2' LAYOUT & DETAILS	PLOT DATE/TIME: Aug 03, 2005-12:49pm
3 JUL 19 05	ISSUED FOR CONSTRUCTION		DESIGNED - M.R.S. / A.F.	
2 APR 15 05	ISSUED FOR TENDER		DRAWN - V.L.	
1 MAR 29 05	ISSUED FOR INITIAL REVIEW		METRIC - Horiz. AS NOTED SCALE - Vert. AS NOTED	
REV. No.	DATE	REVISION	CHECKED - M.R.S.	
			DATE - FEB 10 04	



PROFILE 1 (mm)	525	542	593	825	1080	1248	1331	1332	1277	1169	1008	940	874
PROFILE 2 (mm)	350	367	418	650	905	1073	1156	1151	1053	859	572	450	331
DISTANCE (m)	-W6 (@ PIER '3')	-1/2 W6 (END OF GIRDER)	0.000 (END OF GIRDER)	2.524	5.048	7.572	10.096	12.619	15.143	17.667	20.191 (END OF GIRDER)	21.041 (@ EAST ABUTMENT)	21.811 (@ ANCHORAGE)

GIRDER	W6	'J'
1	1513	10
2	1626	10
3	1740	11
4	1853	12
5	1966	13
6	2080	13
7	2193	14
8	2306	15

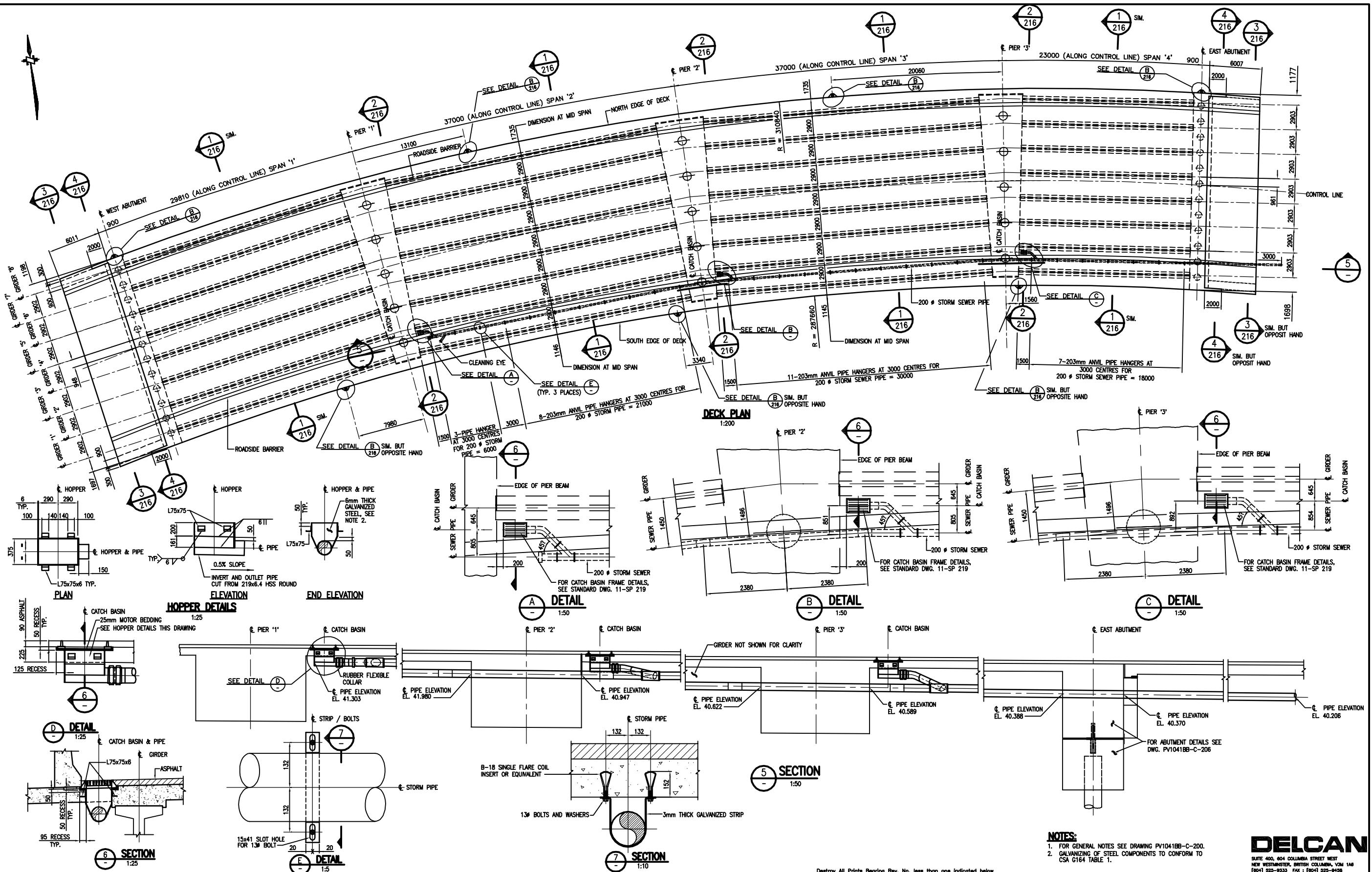
A DETAIL
1:20



NOTES:
1. FOR GENERAL NOTES SEE DRAWING PV1041BB-C-200.

DELCAN
SUITE 400, 604 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A6
[604] 522-9333 FAX: [604] 525-9456

	CITY OF COQUITLAM			Engineering & Public Works		
	DESIGNED - M.R.S. / A.F.	DRAWN - V.L.	METRIC - Horiz. AS NOTED SCALE - Vert. AS NOTED	DAVID AVENUE	SPAN '4' LAYOUT & DETAILS	DWG FILE: PV1041BB-C-214
	3 JUL 19 05 ISSUED FOR CONSTRUCTION	2 APR 15 05 ISSUED FOR TENDER	1 MAR 29 05 ISSUED FOR INITIAL REVIEW	COQUITLAM RIVER BRIDGE	DATE - FEB 10 04	PLOT DATE/TIME: Aug 03, 2005-12:51pm
	REV. No.	DATE	REVISION			SHEET OF



NOTES:

- FOR GENERAL NOTES SEE DRAWING PV1041BB-C-200.
- GALVANIZING OF STEEL COMPONENTS TO CONFORM TO CSA G164 TABLE 1.



CITY OF COQUITLAM **Engineeri**

ED - M.R.S. / A.F.

- V.L.

- Horiz. AS NOTED

- Vert. AS NOTED

ED - M.R.S.

DAVID AVENUE

COQUITLAM RIVER BRIDGE

DECK PLAN AND SECTIONS

DELCAN
SUITE 400, 604 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A6
(604) 525-9333 FAX: (604) 525-9458

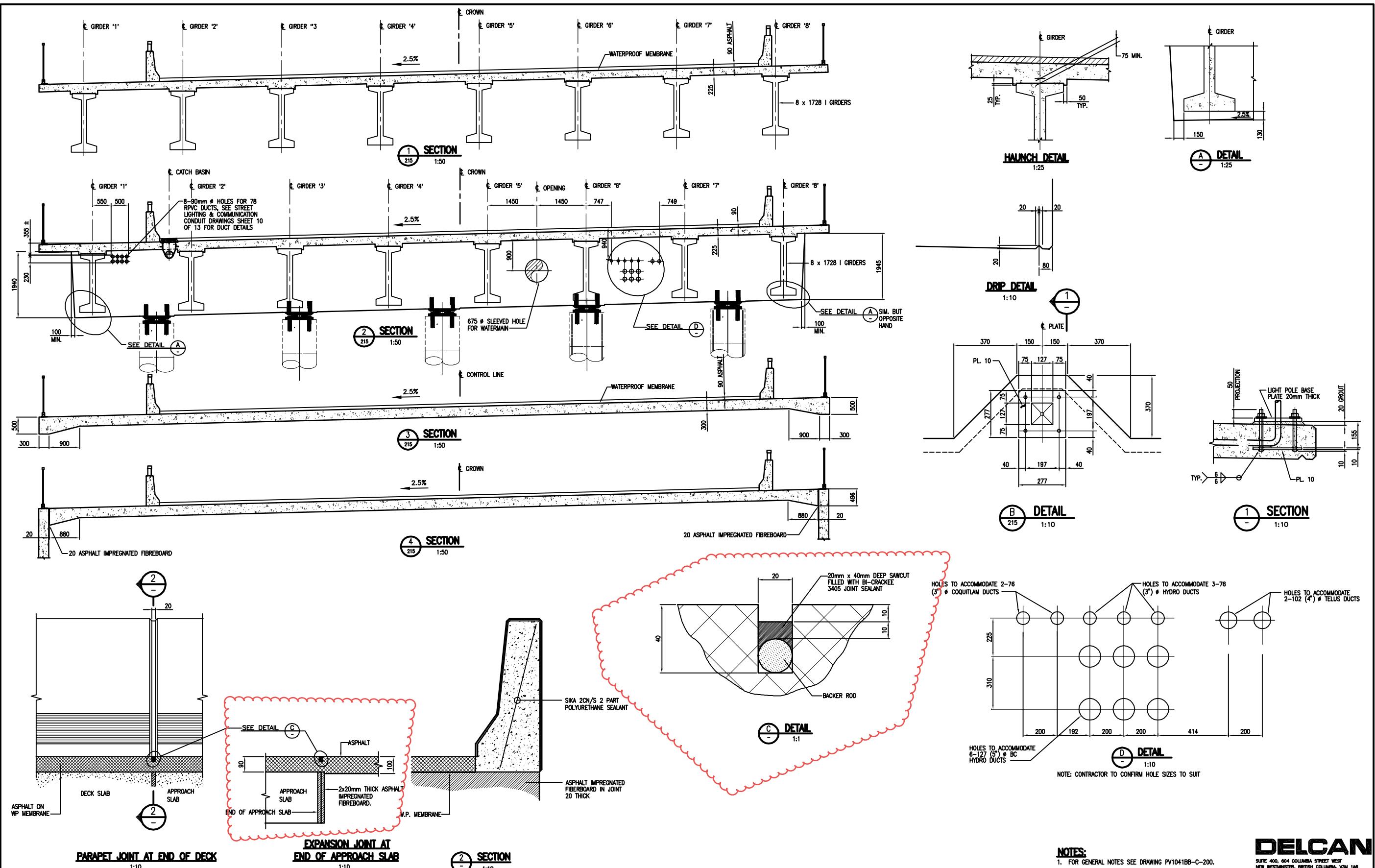
DELCAN

Engineering & Public Works

DWG FILE:
PV1041BB-C-215

EDGE SHEET OF

PLOT DATE/TIME:



Destroy All Prints Bearing Rev. No. less than one indicated below



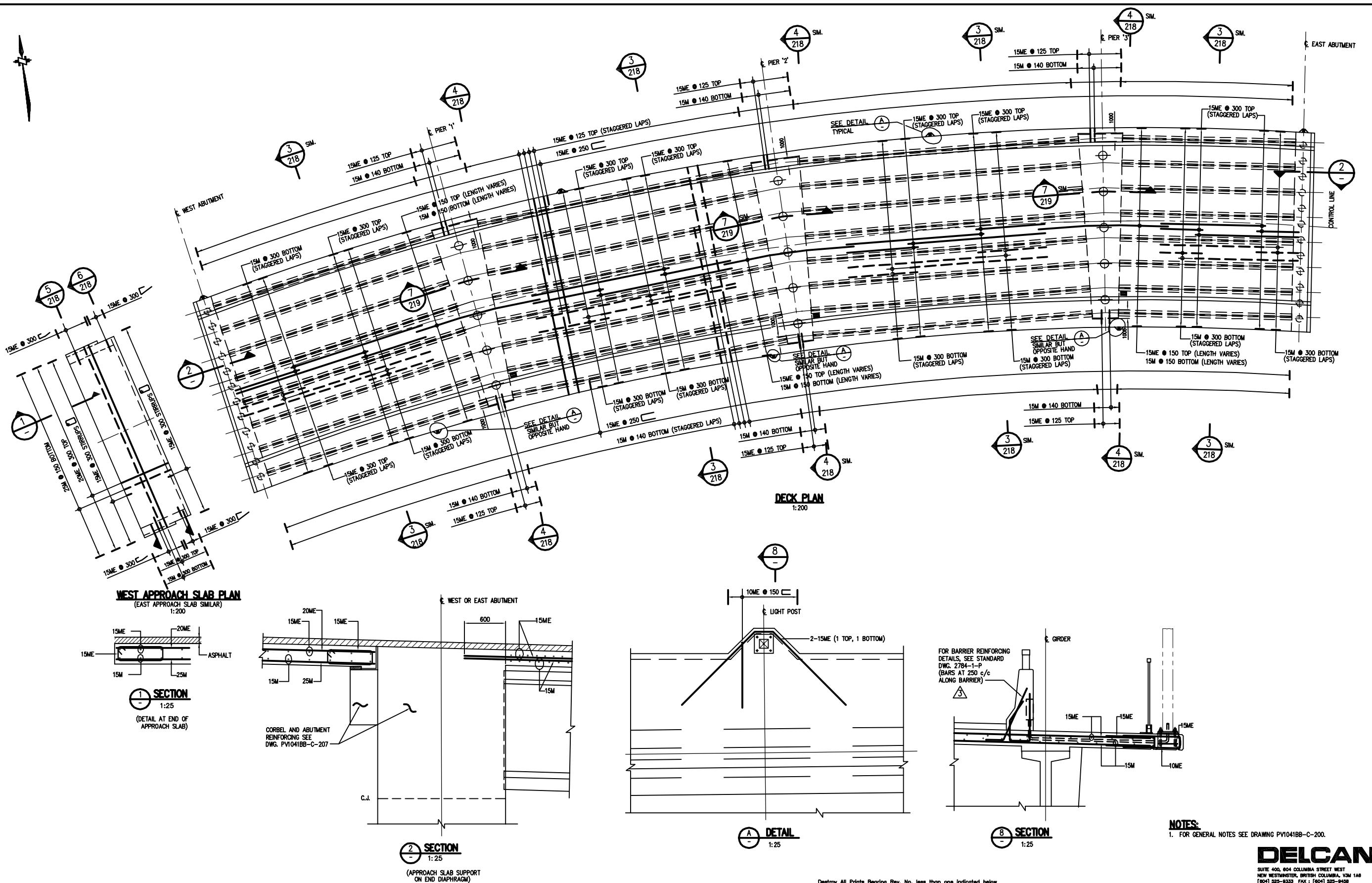
NOTES:
1. FOR GENERAL NOTES SEE DRAWING PV1041BB-C-200.

DELCAN
SUITE 400, 604 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A8
[604] 522-9333 FAX: [604] 525-9456

CITY OF COQUITLAM **Engineering & Public Works**
DAVID AVENUE
COQUITLAM RIVER BRIDGE
DECK SECTIONS AND DETAILS

DWG FILE:
PV1041BB-C-216
SHEET OF
PLOT DATE/TIME:
Aug 03, 2005-12:52pm

DESIGNED - M.R.S. / A.F.	DRAWN - V.L.	checked - M.R.S.
3 JUL 19 05 ISSUED FOR CONSTRUCTION	Metric - Horiz. AS NOTED	
2 APR 15 05 ISSUED FOR TENDER	Vert. AS NOTED	
1 MAR 29 05 ISSUED FOR INITIAL REVIEW		
REV. No.	DATE	REVISION
		DATE - Feb 14 05



Destroy All Prints Bearing Rev. No. less than one indicated below.



			CITY OF COQUITLAM		Engineering & Public Works	
			DAVID AVENUE COQUITLAM RIVER BRIDGE DECK REINF. PLAN & SECTIONS		DWG FILE: PV1041BB-C-217	
					DESIGNED - M.R.S. / A.F.	SHEET OF
					DRAWN - V.L.	
					METRIC - Horiz. AS NOTED SCALE - Vert. AS NOTED	
3	JUL 19 05	ISSUED FOR CONSTRUCTION			CHECKED - M.R.S.	
2	APR 15 05	ISSUED FOR TENDER	DATE - MAY 28 04			
1	MAR 29 05	ISSUED FOR INITIAL REVIEW				
REV. NO.	DATE	REVISION				

FOR GENERAL NOTES SEE DRAWING PV1041BB-C-200.

DELCAN
SUITE 400, 804 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A6
[604] 525-8333 FAX : [604] 525-9458

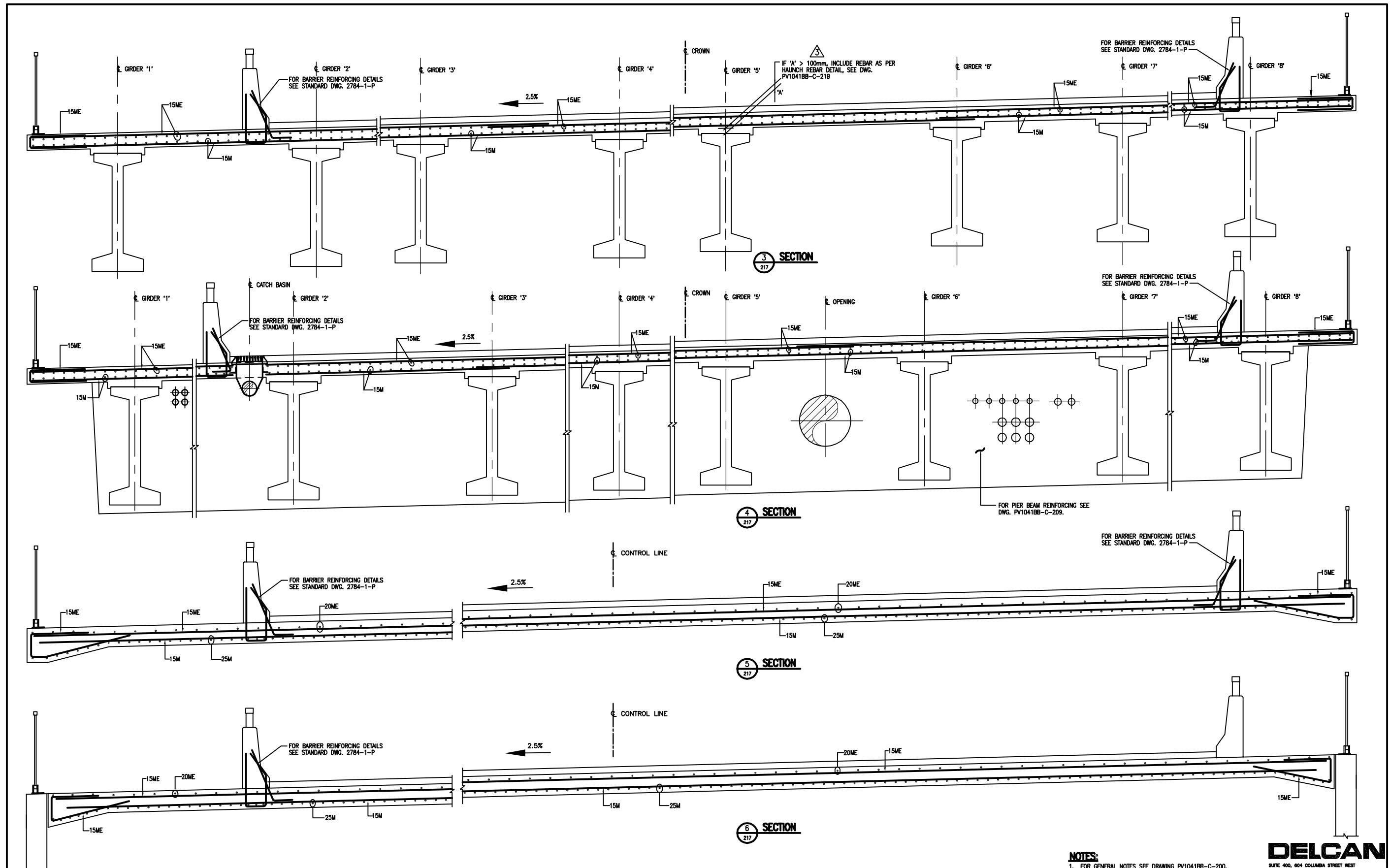
Engineering & Public Works

DWG FILE:
PV1041BB-C-217

EDGE SHEET OF

RECEIVED
PLOT DATE/TIME:

Aug 03, 2005-12:52pm



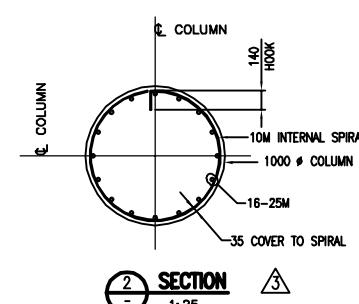
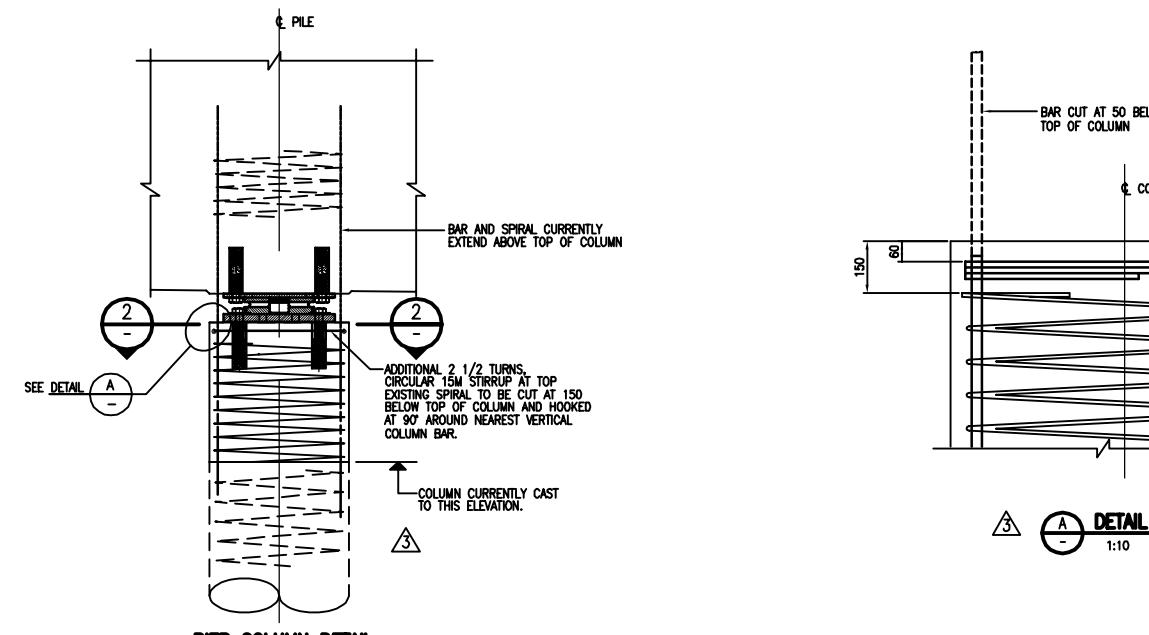
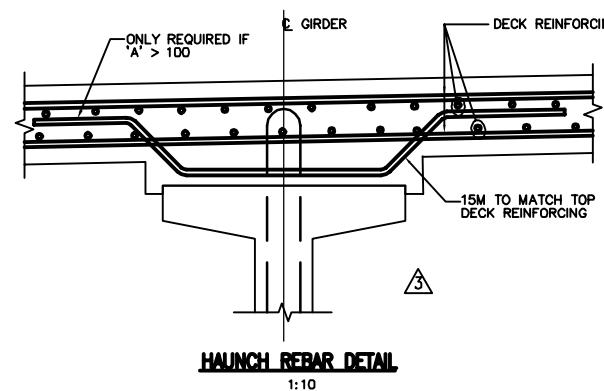
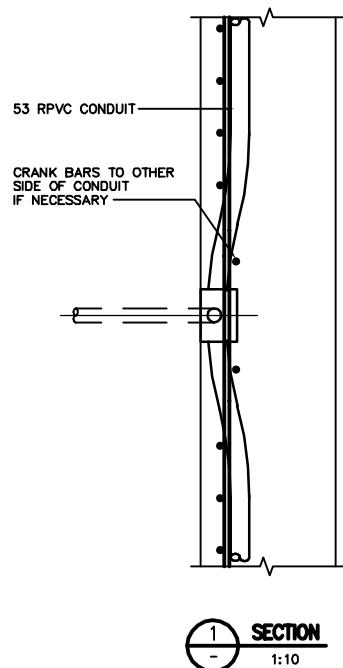
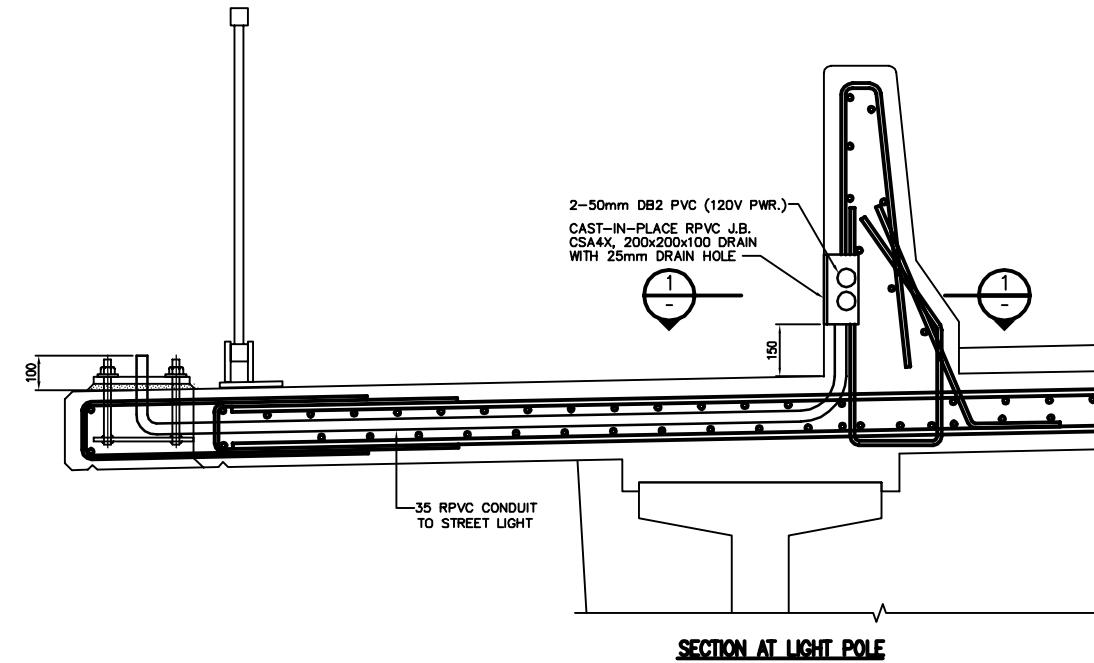
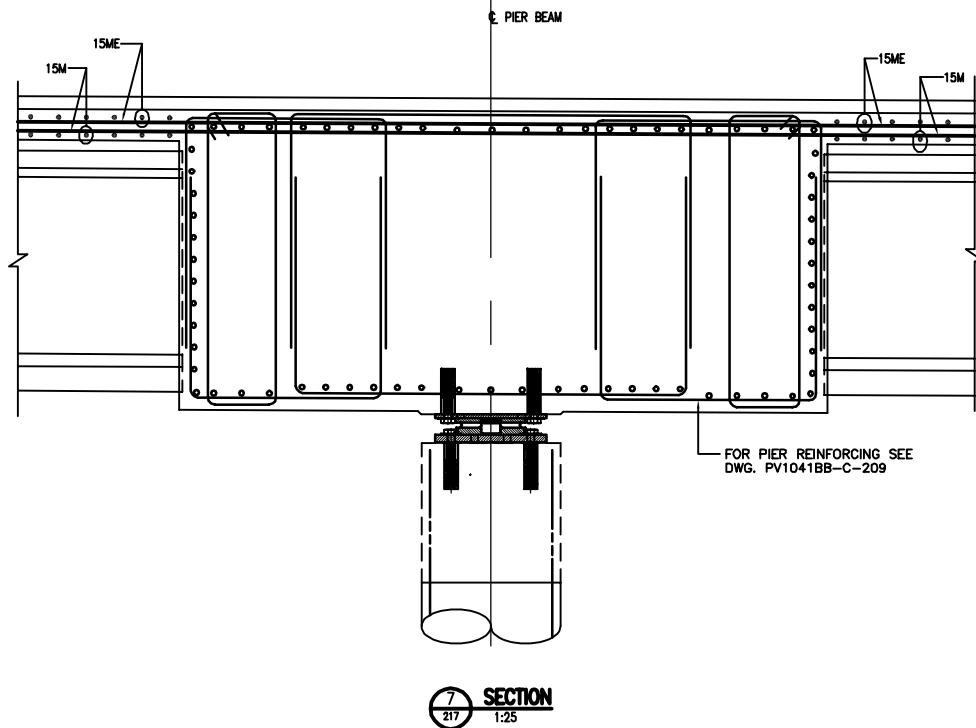
NOTES:
1. FOR GENERAL NOTES SEE DRAWING PV1041BB-C-200.

CITY OF COQUITLAM			Engineering & Public Works
DESIGNED - M.R.S. / A.F.	DRAWN - V.L.	METRIC - Horiz. 1:25 SCALE - Vert. 1:25	DWG FILE: PV1041BB-C-218
3 JUL 19 05 ISSUED FOR CONSTRUCTION	RECHECKED - M.R.S.	1 MAR 29 05 ISSUED FOR INITIAL REVIEW	SHEET 1 OF 2
2 APR 15 05 ISSUED FOR TENDER	REVISION	DATE - Feb 14 05	PLOT DATE/TIME: Aug 03, 2005-12:53pm
REV. NO.	DATE		



DAVID AVENUE
COQUITLAM RIVER BRIDGE
DECK REINFORCING SECTIONS

DELCAN
SUITE 400, 604 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A0
(604) 522-9333 FAX: (604) 525-9456



NOTES:
1. FOR GENERAL NOTES SEE DRAWING PV1041BB-C-200.

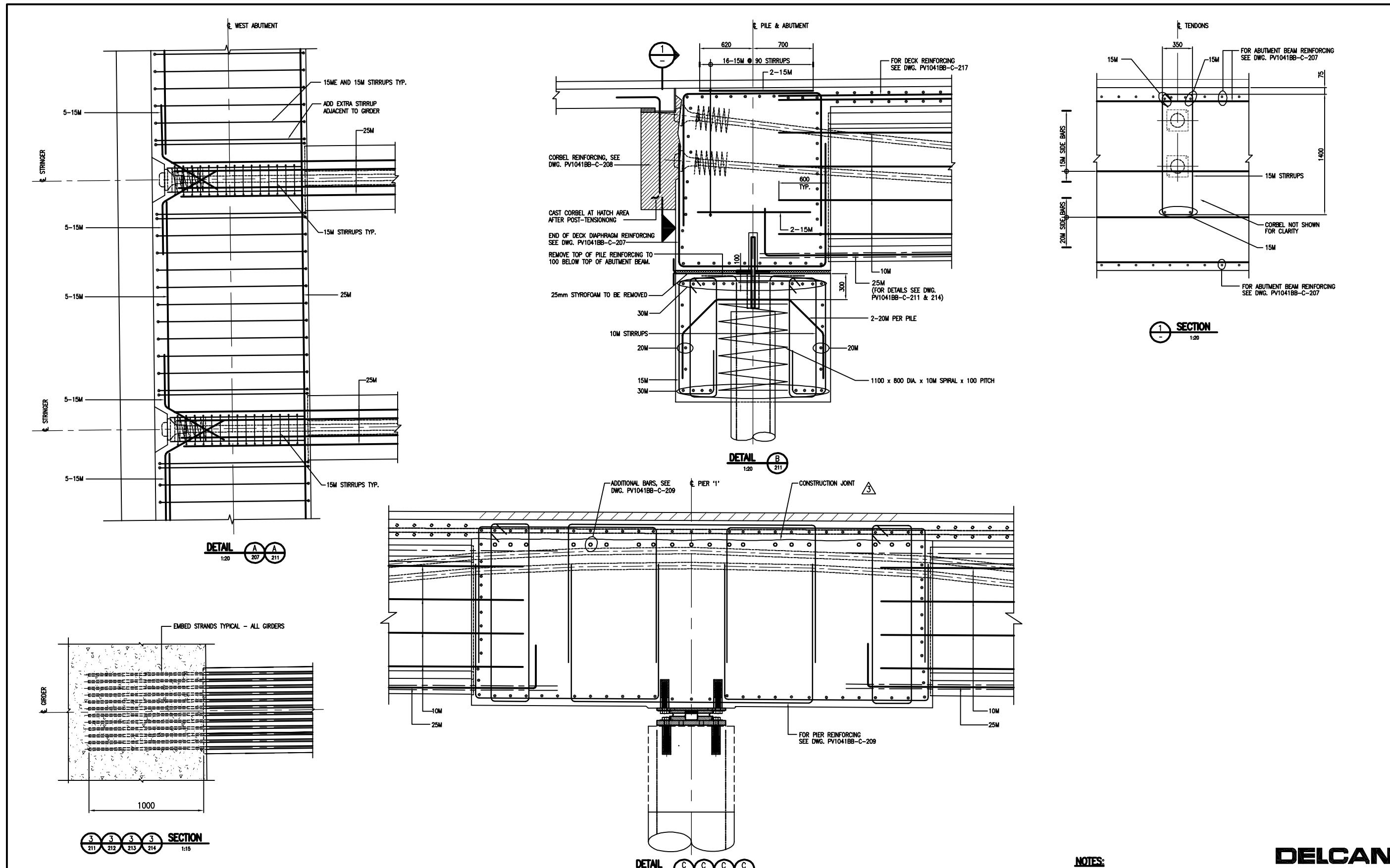
DELCAN
SUITE 400, 604 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A9
[604] 522-9333 FAX: [604] 525-9456

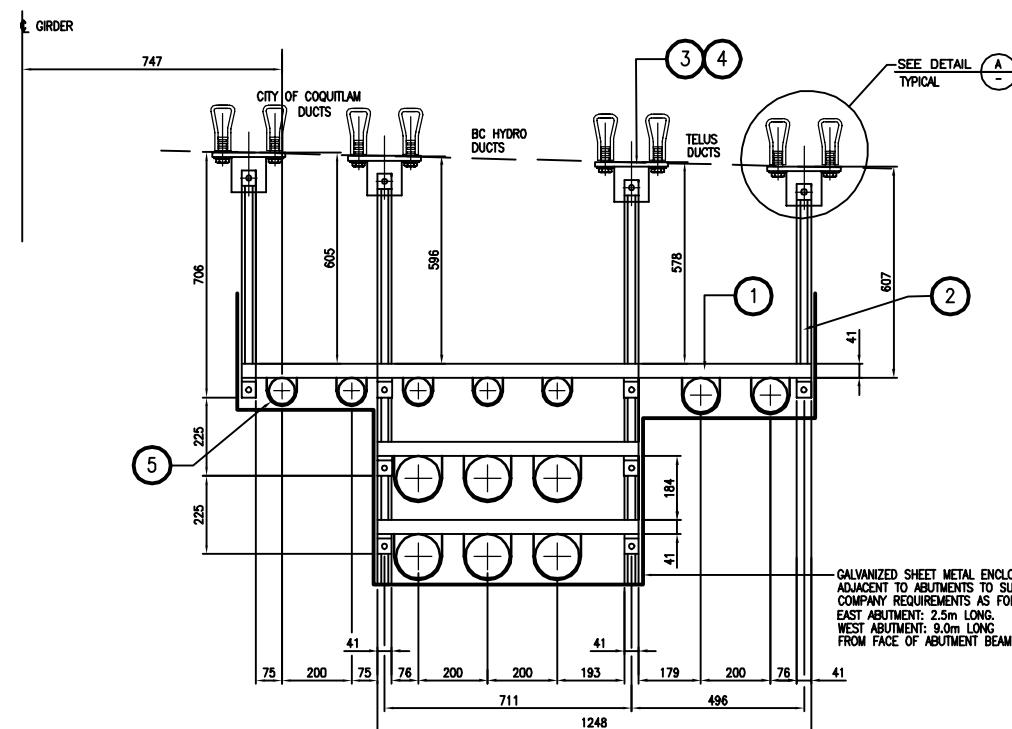
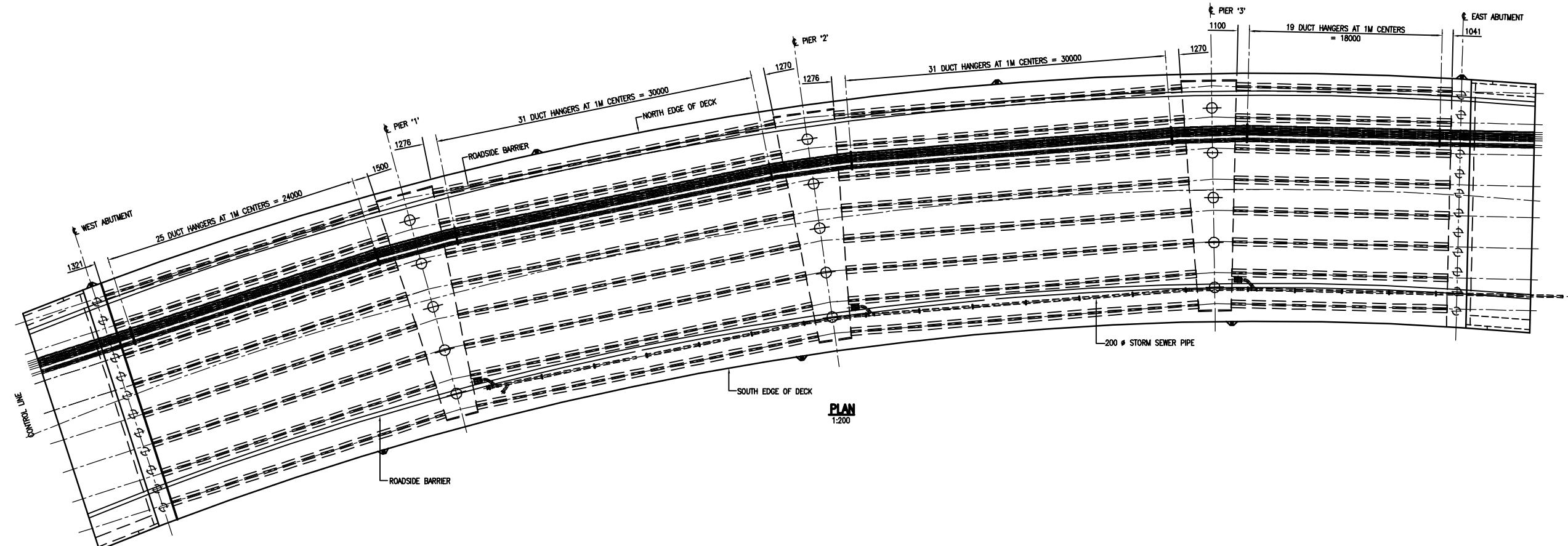
Destroy All Prints Bearing Rev. No. less than one indicated below



REV. NO.	DATE	REVISION
3	JUL 19 05	ISSUED FOR CONSTRUCTION
2	APR 15 05	ISSUED FOR TENDER
1	MAR 29 05	ISSUED FOR INITIAL REVIEW

CITY OF COQUITLAM			Engineering & Public Works
DAVID AVENUE			DWG FILE: PV1041BB-C-219
COQUITLAM RIVER BRIDGE			SHEET 2 OF 2
DECK REINFORCING SECTIONS			PLOT DATE/TIME: Aug 03, 2005-12:53pm

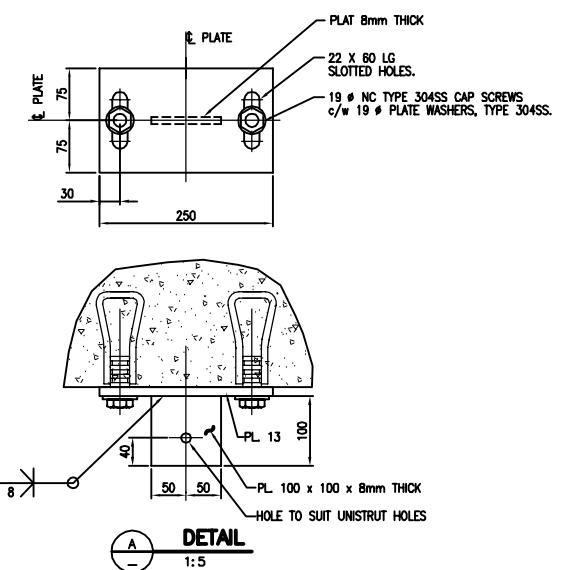
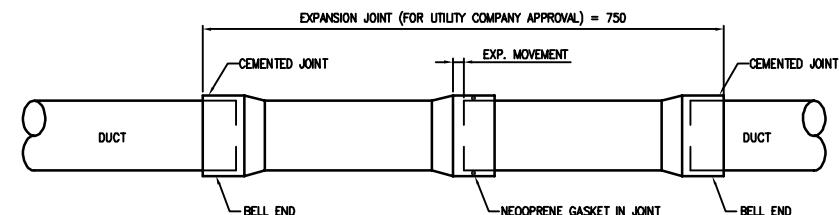




DUCT HANGER DETAIL

1:10

ITEM NO.	DESCRIPTION
1	HORIZONTAL SUPPORT EACH UNISTRUT P1000 OR EQUIVALENT
2	VERTICAL SUPPORT EACH UNISTRUT P1000 OR EQUIVALENT
3	90 FITTING UNISTRUT P1068 OR EQUIVALENT
4	12mm NUT, BOLT, STAR WASHER - UNISTRUT P1000 BOLTS AND WASHERS TO FIT
5	8 3" I.D. DUCT CLAMPS - UNISTRUT P2056 OR EQUIVALENT 6 5" I.D. DUCT CLAMPS - UNISTRUT P2064 OR EQUIVALENT 2 4" I.D. DUCT CLAMPS - UNISTRUT P2048 OR EQUIVALENT



NOTES:

1. FOR GENERAL NOTES SEE DRAWING PV1041BB-C-200.

Destroy All Prints Bearing Rev. No. less than one indicated below

DESIGNED - M.R.S. / A.F.

DRAWN - V.L.

METRIC - Horiz. AS NOTED

SCALE - Vert. AS NOTED

CHECKED - M.R.S.

DATE - April 5 05

DAVID AVENUE

COQUITLAM RIVER BRIDGE

DUCT HANGER DETAILS

DELCAN

SUITE 400, 604 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A6
[604] 522-9333 FAX: [604] 525-9456

DWG FILE:
PV1041BB-C-221

SHEET OF

PLOT DATE/TIME:
Aug 03, 2005-12:54pm



CITY OF COQUITLAM

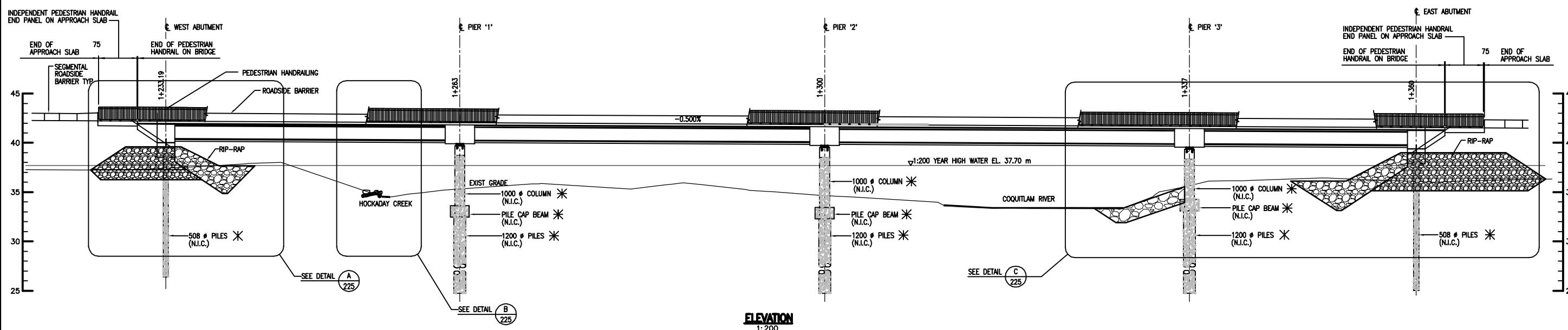
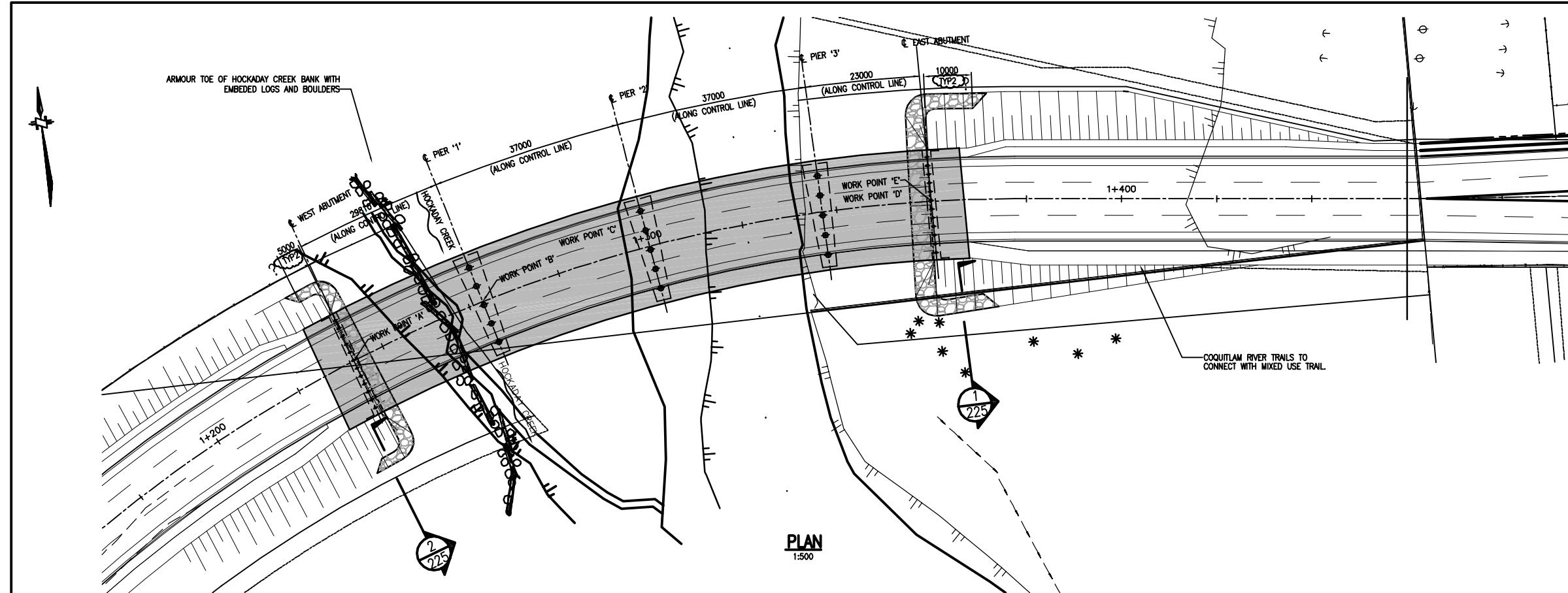
Engineering & Public Works

2 JUL 19 05	ISSUED FOR CONSTRUCTION	
1 APR 15 05	ISSUED FOR TENDER	
REV. No.	DATE	REVISION

DAVID AVENUE

COQUITLAM RIVER BRIDGE

DUCT HANGER DETAILS



NOTES:

1. FOR GENERAL NOTES SEE DRAWING No. PV1041BB-C-200.
2. N.I.C. = NOT IN CONTRACT.
3. * SHADeD ELEMENTS HAVE BEEN CONSTRUCTED UNDER PREVIOUS CONTRACT.

Destroy All Prints Bearing Rev. No. less than one indicated below

nhc
northwest
hydrailic
consultants

DELCAN
SUITE 400, 604 COLUMBIA STREET WEST
NORTH VANCOUVER, BRITISH COLUMBIA, V7M 3G3
[604] 980-5011 FAX : [604] 980-9254



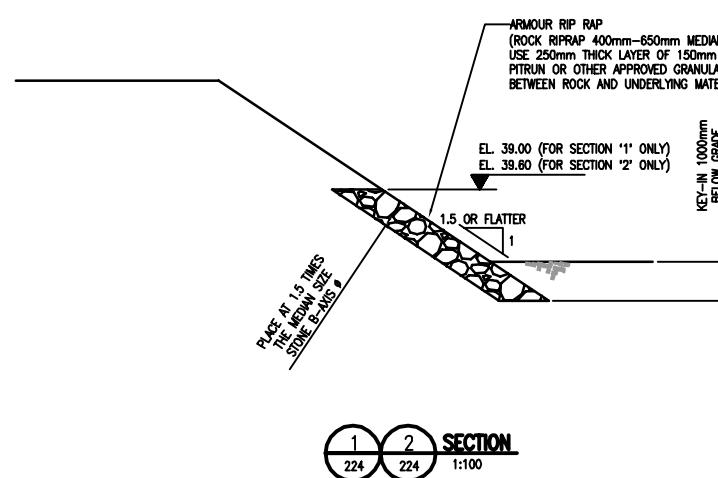
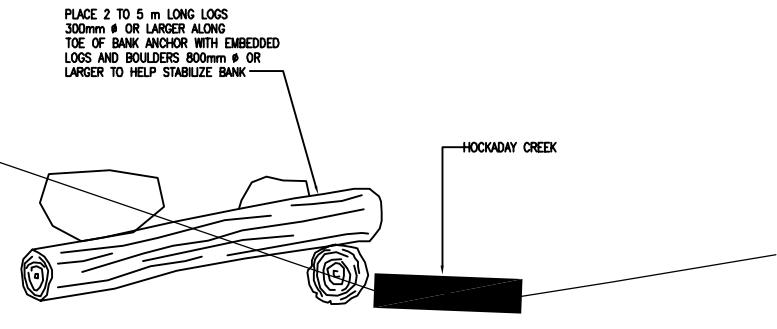
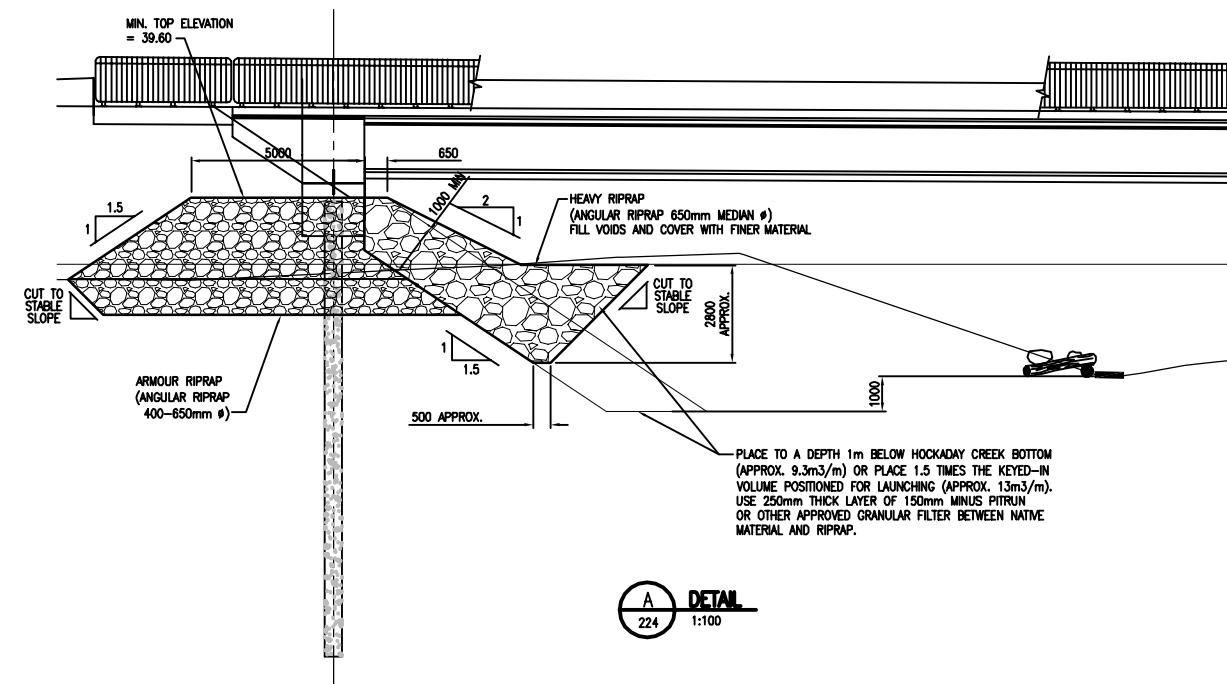
CITY OF COQUITLAM Engineering & Public Works
DAVID AVENUE CONNECTOR
COQUITLAM RIVER BRIDGE
BANK PROTECTION WORKS

DWG FILE:
PV1041BB-C-224

SHEET 1 OF 2

PLOT DATE/TIME:
Aug 03, 2005-12:55pm

DESIGNED - DPM/BWW	DRAWN - DPM	METRIC SCALE - Horiz. AS NOTED
2 JUL 19 05	ISSUED FOR CONSTRUCTION	
1 APR 15 05	ISSUED FOR TENDER	
REV. NO.	DATE	REVISION
		DATE - APR 05 05



NOTES:

1. FOR GENERAL NOTES SEE DRAWING NO. PV1041BB-C-200.
2. N.I.C. = NOT IN CONTRACT.
3. * SHADeD ELEMENTS HAVE BEEN CONSTRUCTED UNDER PREVIOUS CONTRACT.

Destroy All Prints Bearing Rev. No. less than one indicated below



CITY OF COQUITLAM		Engineering & Public Works	
DESIGNED - DPM/BWW	DRAWN - DPM	Metric Scale: Horiz. As Noted	Dwg. File: PV1041BB-C-225
		Vert. As Noted	
2 JUL 19 05 ISSUED FOR CONSTRUCTION		CHECKED -	
1 APR 15 05 ISSUED FOR TENDER			
REV. No.	DATE	REVISION	PLOT DATE/TIME: Aug 03, 2005-12:55pm

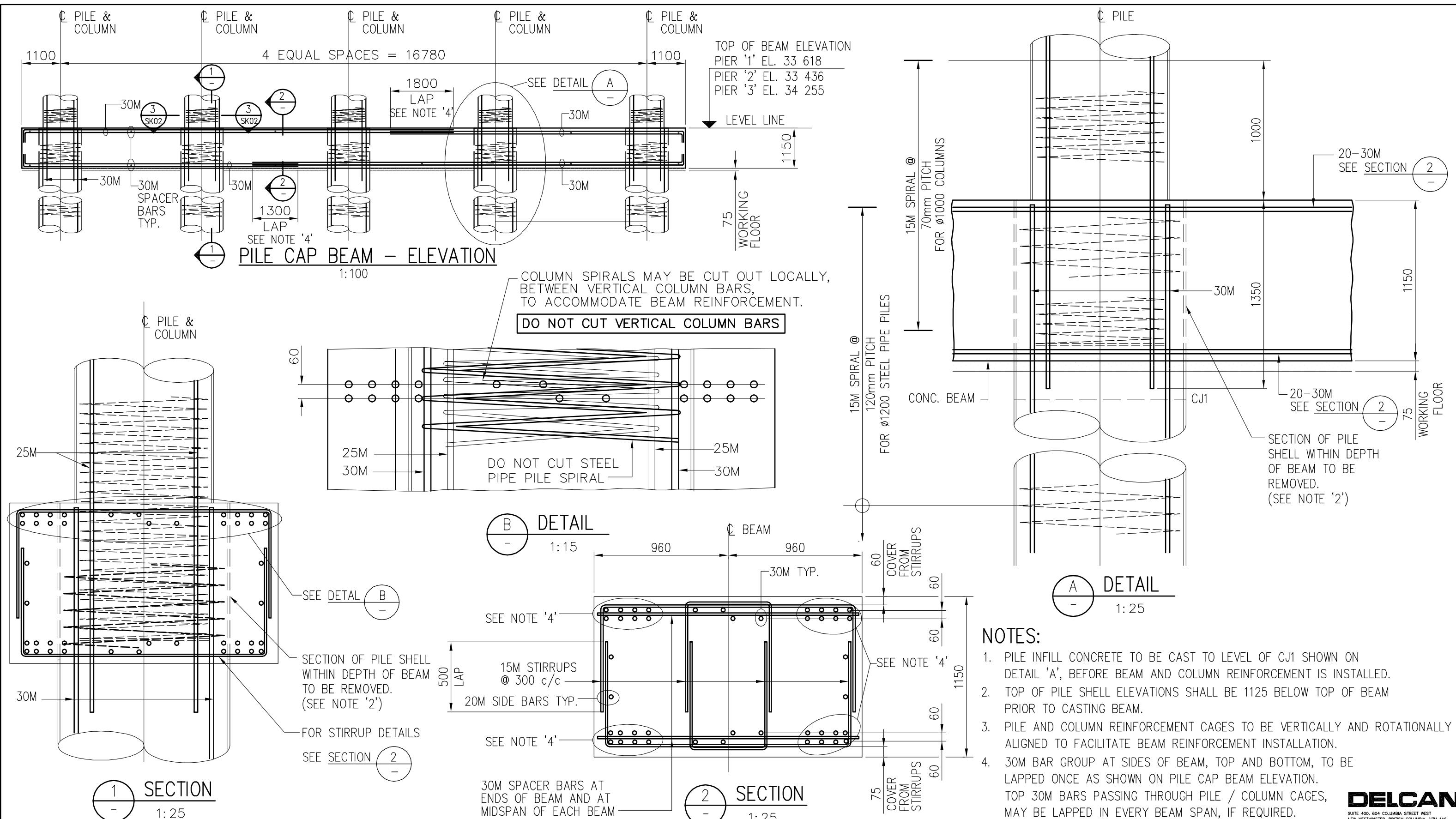
nhc hydrodynamic consultants

DELCAN

30 GASTON PLACE
SUITE 400, 404 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 3G3
[604] 525-8011 FAX: [604] 525-8254

SUITE 400, 404 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 3G3
[604] 525-9333 FAX: [604] 525-9456

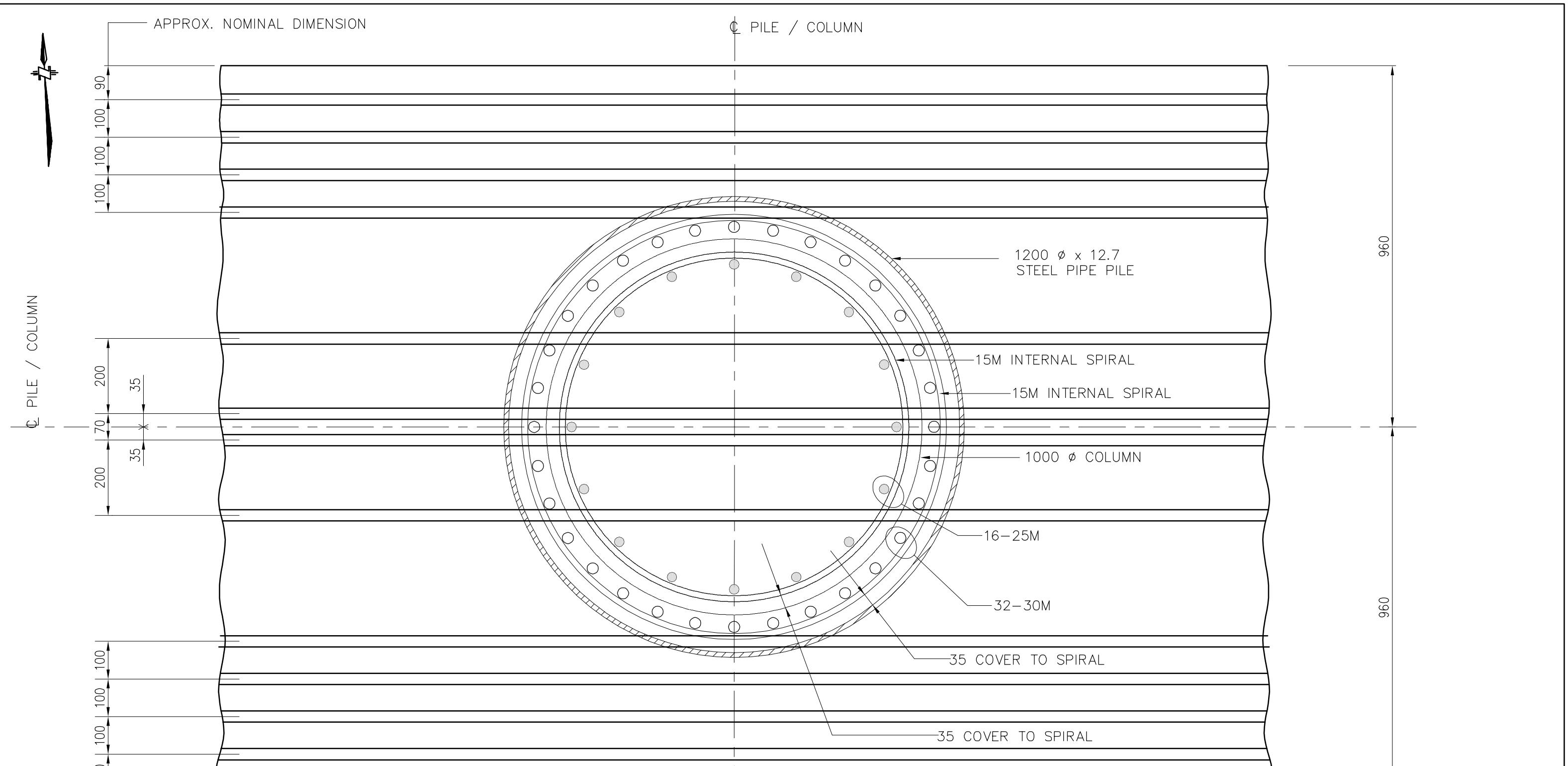
SHEET 2 OF 2



Destroy All Prints Bearing Rev. No. less than one indicated below

CITY OF COQUITLAM			Engineering & Public Works
DAVID AVENUE CONNECTOR			PV1041BB-C-SK01
COQUITLAM RIVER BRIDGE			SHEET 1 OF 2
COLUMN & PILE DETAILS			PLOT DATE/TIME: Sep 23, 2004 5:29pm
DESIGNED - M.R.S. / A.F.	DRAWN - V.L.	METRIC - Horiz. AS NOTED SCALE - Vert. AS NOTED	09-23-04 ISSUED FOR CONSTRUCTION
REVISION	DATE	REV. NO.	DATE - SEP. 14, 04

SUITE 400, 604 COLUMBIA STREET WEST
NEW WESTMINSTER, BRITISH COLUMBIA, V3M 1A6
[604] 525-9333 FAX: [604] 525-9456



3
SK01

SECTION
1:10

Destroy All Prints Bearing Rev. No. less than one indicated below

CITY OF COQUITLAM			Engineering & Public Works
DAVID AVENUE CONNECTOR			DWG FILE: PV1041BB-C-SK02
COQUITLAM RIVER BRIDGE			
COLUMN & PILE DETAILS			SHEET 2 OF 2
09-23-04	ISSUED FOR CONSTRUCTION	REV. NO.	PLOT DATE/TIME: Sep 23, 2004-5:31pm
DATE	REVISION	DATE	