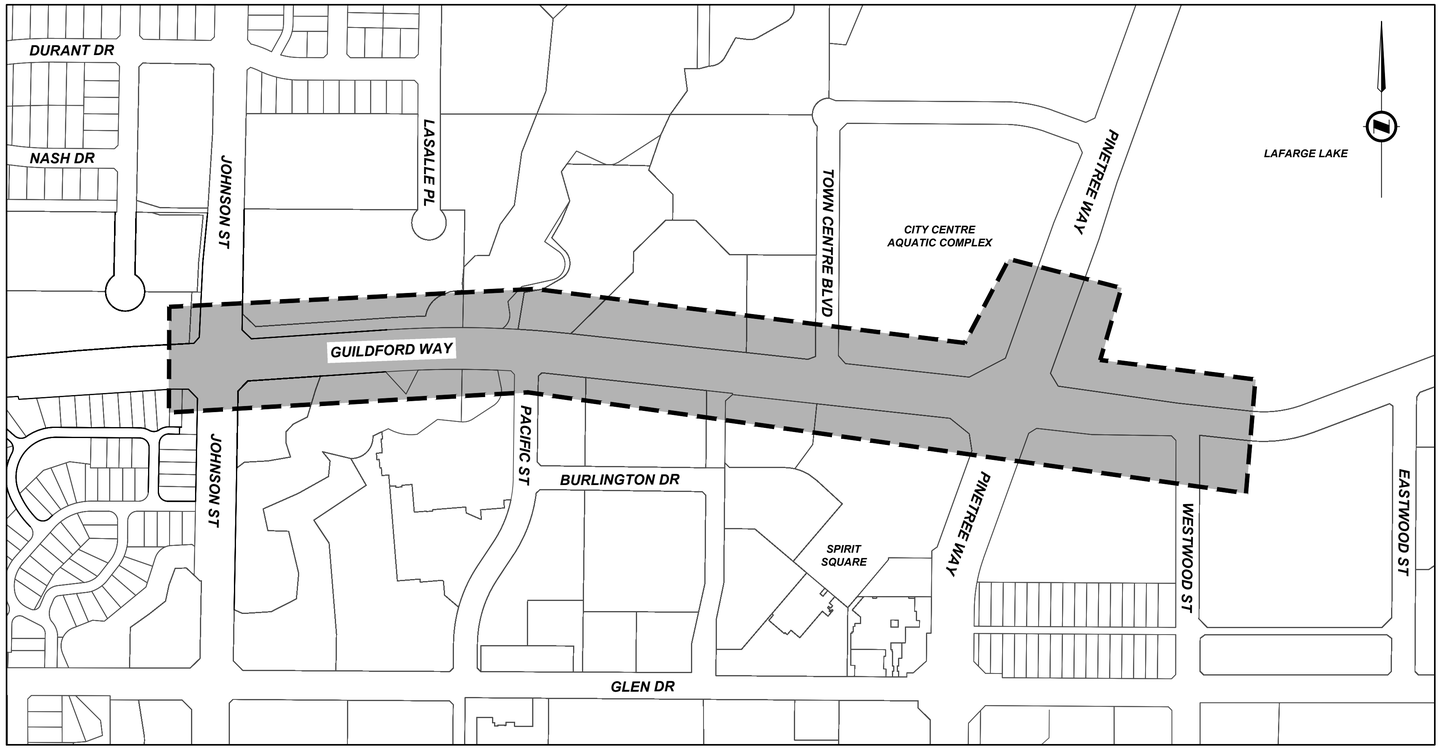
	DRAWING SCHEDULE		
CATEGORY	DWG. NO.	SHEET TITLE	REV. NO.
GENERAL	00	COVER	
	01	GENERAL NOTES	B
	02	TYPICAL SECTIONS - 01	B
	03	TYPICAL SECTIONS - 02	B
	04	DETAILS - 01	B
	05	DETAILS - 02	B
REMOVALS	06	STA 1+040 TO 1+330	B
	07	STA 1+330 TO 1+640	B
	08	STA 1+640 TO 1+840	B
ROADWORKS	09	STA 1+000 TO 1+130	B
	10	STA 1+130 to 1+240	B
	11	STA 1+240 TO 1+360	B
	12	STA 1+360 TO 1+480	B
	13	STA 1+480 TO 1+620	B
	14	STA 1+620 TO 1+760	B
	15	STA 1+760 TO 1+860	B
INTERSECTIONS	16	PACIFIC STREET INTERSECTION	B
	17	TOWN CENTRE BLVD. INTERSECTION	B
	18	PINETREE WAY INTERSECTION	B
PAVE. MARKINGS & SIGNAGE	19	STA 1+000 TO 1+460	B
	20	STA 1+460 TO 1+840	B
STORM	21	STA 1+000 TO 1+500	B
	22	STA 1+500 TO 1+800	B
ELECTRICAL			-

Coquitlam

GUILDFORD GREENWAY - PHASE 2
ISSUED FOR TENDER
PROJECT #77579-2



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

GENERAL NOTES:

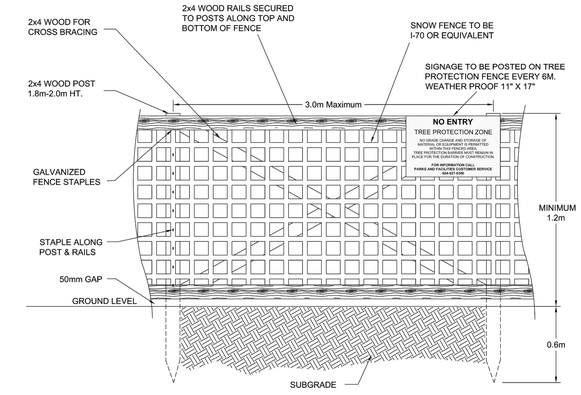
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE PLATINUM EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS UNLESS OTHERWISE NOTED.
2. THE LOCATION OF EXISTING UTILITIES IS COMPILED FROM OWNER AND UTILITY SUPPLIED RECORD DRAWINGS AND ARE CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION AND EXTENT OF UTILITIES SHOULD BE DETERMINED BY CONSULTING THE LOCAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND INVERT ELEVATION BY HAND OR HYDROVAC EXCAVATION BEFORE CONSTRUCTION OF UTILITY CROSSINGS AND SHALL BE RESPONSIBLE FOR RESTORATION OF ANY DAMAGE TO EXISTING UTILITIES. ANY COSTS ASSOCIATED WITH UTILITY CONFLICTS THAT WERE NOT PRELOCATED WILL BE THE CONTRACTORS RESPONSIBILITY.
3. NOTIFY THE CITY OF COQUITLAM 48 HOURS IN ADVANCE OF ANY CONSTRUCTION OR UTILITY RELOCATION.
4. REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER A MIN 72 HOURS PRIOR TO CONSTRUCTION.
5. RESTORATION OF EXISTING DRIVEWAYS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS.
6. 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.
7. 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.
8. 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.
9. SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
10. 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.
11. 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.
12. THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITY POLE SUPPORTS NECESSARY TO COMPLETE THE WORKS AS AN INCIDENTAL ITEM TO GENERAL CONTRACT REQUIREMENTS WHERE AND AS REQUIRED.
13. CONTRACTOR TO MAINTAIN AN UP TO DATE SET OF AS-CONSTRUCTED DRAWINGS AT ALL TIMES. AS-CONSTRUCTED DRAWINGS TO BE DELIVERED TO THE 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.
14. THE CONTRACTOR SHALL MAINTAIN AND MONITOR THE PROVISIONS FOR EROSION CONTROL AND SEDIMENT AS PER CONTRACT DOCUMENTS.
15. 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.
16. ALL PAVEMENT MARKINGS PAINT TO BE THERMOPLASTIC.
17. TOP LIFT PAVING JOINTS TO BE LOCATED UNDER THE THERMOPLASTIC CENTERLINE PAVEMENT MARKINGS WHERE APPLICABLE.
18. ALL ASPHALT JOINT MUST BE SMOOTH AND WITHOUT VISIBLE BREAKS IN GRADE.
19. SUBMIT DENSITY TESTS TAKEN ON JOINTS. NO INDIVIDUAL TEST LESS THAN 95% DENSITY.
20. 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:

1. 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.
2. 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.
3. 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.
4. 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).
5. 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.
6. 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.
7. A TRAFFIC AND PEDESTRIAN SAFETY CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE PRE-CONSTRUCTION MEETING.
8. 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.
9. CONTRACTOR TO OBTAIN APPROVED LANE CLOSURE REQUEST FORM FOR ALL WORKS. APPROVED REQUESTS ARE CIRCULATED TO ALL EMERGENCY SERVICES.
10. CONTRACTOR TO SUBMIT A TRAFFIC MANAGEMENT PLAN WITH LANE CLOSURE REQUEST FOR ALL MAJOR ROADS AND ANY LOCAL ROADS WHICH REQUIRE ANY DETOURS.
11. ALL TRAFFIC CONTROL TO CONFORM TO THE LATEST EDITION OF THE BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
12. APPROVAL OF NOISE VARIANCE FOR ALL WORK OUTSIDE OF NORMAL APPROVED WORK HOURS REQUIRED BY THE CITY.
13. 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.
14. 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.
15. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE TRAFFIC MANAGEMENT DETAILED SPECIFICATIONS IN THE CONTRACT DOCUMENTS.
16. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY RELOCATION OF BUS STOPS WITH COAST MOUNTAIN BUS COMPANY.

GREEN SURFACE TREATMENT:

1. MATERIAL SHALL BE MMA (METHYL METHACRYLATE) OR APPROVED EQUIVALENT.
2. THE MMA SKID RESISTANT MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:
   .1 BE ULTRA-VIOLET STABLE.
   .2 BE ISO CERTIFIED DURABLE ROAD MARKING MATERIAL.
   .3 UTILIZE 0.5mm - 1mm AGGREGATE WITHIN THE MMA TO CREATE SKID RESISTANCE OF 49 BPN.
   .4 "VANCOUVER" GREEN COLOUR (PANTONE #368) TO BE APPROVED PRIOR TO APPLICATION.
   .5 GLASS BEADS TO CONFORM TO AASHTO M247 TYPE 1 (STD. GRADATION) SPECIFICATIONS.
   .6 SAMPLE OF MMA MATERIALS WILL BE REQUIRED.
3. PRODUCT DETAILS AND SPECIFICATIONS TO BE SUBMITTED TO OWNER FOR FINAL APPROVAL.



GENERAL NOTES:

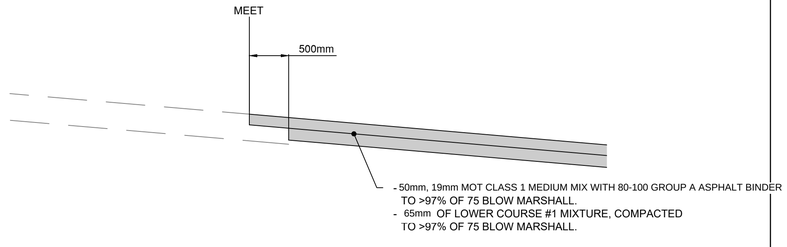
1. PROTECTION FENCE TO BE LOCATED A CROWN DRIPLINE OR ADJACENT TO HARDSURFACE, WHICH EVER IS GREATER, OR AT A DISTANCE SPECIFIED BY THE CITY ARBORIST.
2. MANUALLY EXCAVATE AND CUT TREE ROOTS WITHIN 1.0M OF THE TREE PROTECTION FENCING.
3. MACHINERY AND STORAGE IS NOT PERMITTED WITHIN 1.0M OF TREE PROTECTION AREA.

NO ENTRY
TREE PROTECTION ZONE
NO GRADE CHANGE AND STORAGE OF MATERIAL OR EQUIPMENT IS PERMITTED WITHIN THIS FENCED AREA.
TREE PROTECTION BARRIER MUST REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION.
FOR INFORMATION CALL
PARKS AND FACILITIES CUSTOMER SERVICE
604-927-6300

NOTE: TREE PROTECTION WILL BE INSTALLED BY OTHERS

TREE PROTECTION DETAIL

NTS



LAP JOINT DETAIL

NTS

LEGEND

LINETYPES

PROPOSED	EXISTING	
		RIGHT OF WAY
W	W	WATER MAIN
		WATER SERVICE
D	D	STORM MAIN
		STORM SERVICE
		CB / DRAINAGE LEAD
		STREAM / CREEK / DITCH
S	S	SANITARY SEWER MAIN
		SANITARY SERVICE
UE	UE	ELECTRICAL
C	C	CABLE
G	G	NATURAL GAS
x x x	x x	FENCE
		RETAINING WALL
		EDGE OF GRAVEL ROAD
		BOTTOM OF BANK
		TOP OF BANK
		EDGE OF PAVEMENT

SYMBOLS

PROPOSED	EXISTING	DESCRIPTION	PROPOSED	EXISTING	DESCRIPTION
		WATER VALVE AIR			STORM CATCHBASIN DOUBLE
		WATER VALVE			STORM CATCHBASIN
		WATER BEND			STORM CULVERT / HEADWALL
		WATER TEE			STORM LAWN DRAIN
		WATER CROSS			STORM MANHOLE
		WATER HYDRANT			SANITARY MANHOLE
		WATER REDUCER			GUY WIRE
		WATER ROBAR			TELUS MANHOLE
		WATER THRUST BLOCK			POLE
W	W	WATER SERVICE			SIGN
		WATER BLOWOFF			STREETLIGHT
		WATER CAP			TREES
		WATER METER			JUNCTION BOX
		WATER HUB FLANGE			

PLOT DATE: April 19, 2024

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	EH	CJB
B	ISSUED FOR TENDER	2024/04/19	EH	CJB

Coquitlam

GENERAL NOTES
GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB
			REV. B

DWG. NO. 01 OF 22

ISSUED FOR TENDER

DESIGN NO. 33376

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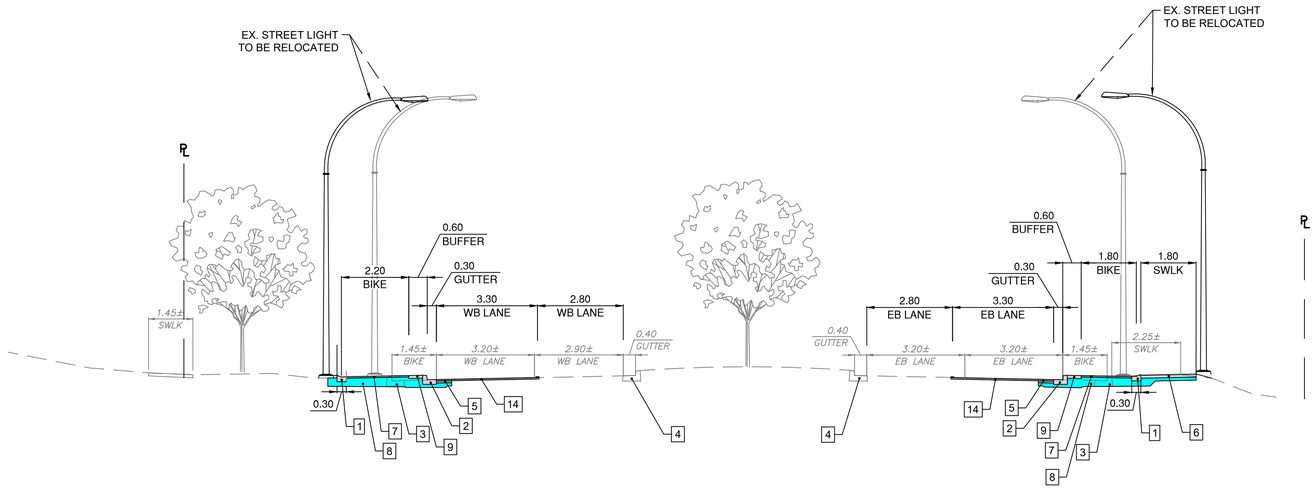


GUILDFORD WAY - TYPICAL SECTION
JOHNSON STREET TO PACIFIC STREET

SCALE 1:100

1 CITY OF VANCOUVER TYPE E BIKE/PEDESTRIAN MOUNTABLE SEPARATION CURB WITH GUTTER (CoV STD DWG C4.5) - DETAIL ON THIS SHEET

2 BARRIER CURB & GUTTER AS PER MMCD C4

3 REMOVE EXISTING CONCRETE BARRIER CURB AND GUTTER

4 RETAIN EXISTING CONCRETE BARRIER CURB AND GUTTER

5 SLOT PAVING - MINIMUM 500mm WIDTH
- 200MM OF 75MM MINUS CRUSHED GRANULAR SUBBASE COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY (OPTIONAL AS DIRECTED BY CA)
- 100mm OF 19mm MINUS GRANULAR BASE COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY
- 65mm LOWER COURSE #1 ASPHALT, COMPACTED TO 95% OF 75 BLOW MARSHALL
- 50mm MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >95% OF BLOW MARSHALL (TO BE PAVED AS PART OF THE CURB TO CURB FULL TOP LIFT)

6 100mm CONCRETE SIDEWALK AS PER MMCD C1

7 ASPHALT BIKE PATH - 50mm THICKNESS (USE UPPER COURSE #2 MIXTURE COMPACTED TO 97% OF 75 BLOW MARSHALL

8 100mm OF 19mm MINUS GRANULAR BASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY

9 MIN. 100mm THICK CONCRETE BUFFER

10 RETROFIT TYPE E CURB ON TOP OF EX GUTTER

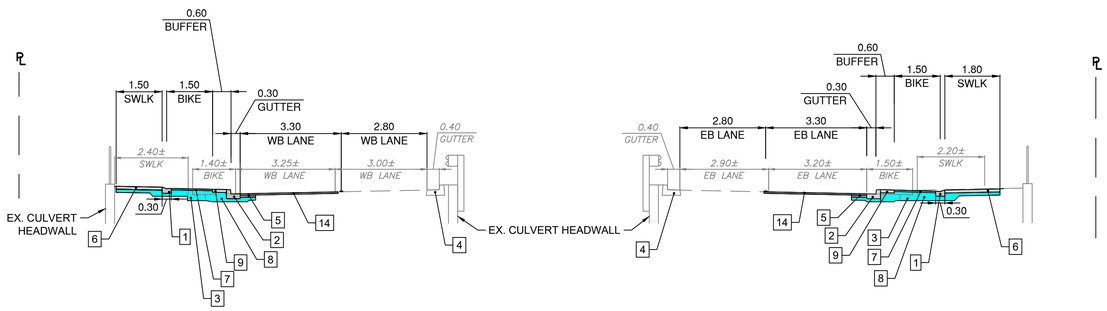
11 CURB WITHOUT GUTTER

12 TOPSOIL AND SOD - MIN 150mm OF MMCD IMPORTED TOSOIL AND MMCD SOD

13 100mm CONCRETE MEDIAN

14 50mm TOP LIFT AND INLAY
- MILL TREATMENT AREA TO 50mm DEPTH (INLAY MILLING)
- CLEAN AND TACK-COAT ASPHALT SURFACES INCLUDING JOINTS.
- INLAY (WITH PAVER) MILLED AREA WITH NEW HOT MIX ASPHALT TO 50mm THICKNESS (USE MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >95% OF BLOW MARSHALL)

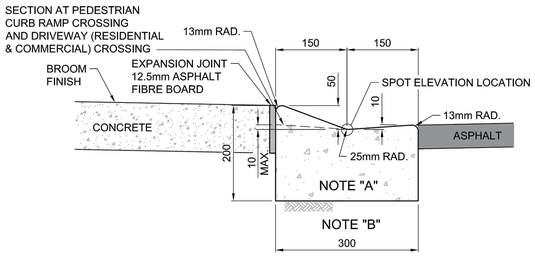
15 BARRIER CURB & GUTTER AS PER MMCD C5



GUILDFORD WAY - TYPICAL SECTION
HOY CREEK CROSSING

SCALE 1:100

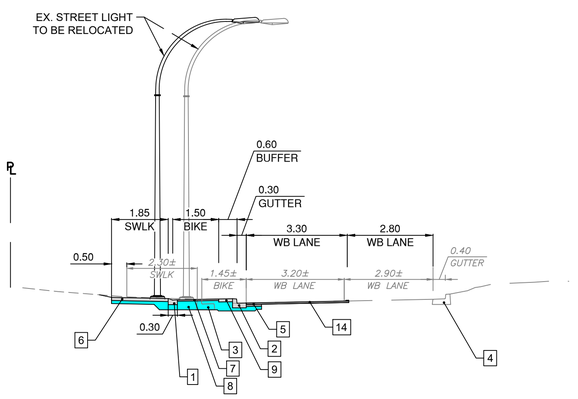
SECTION AT PEDESTRIAN CURB RAMP CROSSING AND DRIVEWAY (RESIDENTIAL & COMMERCIAL) CROSSING



NOTE "A" CONTROL JOINTS CUT AT 4.5m INTERVALS (MIN. 50mm DEPTH).
NOTE "B" PLACE A MINIMUM OF 150mm APPROVED GRANULAR BASE AT 95% MPD (19mm MINUS CRUSHED GRANULAR)

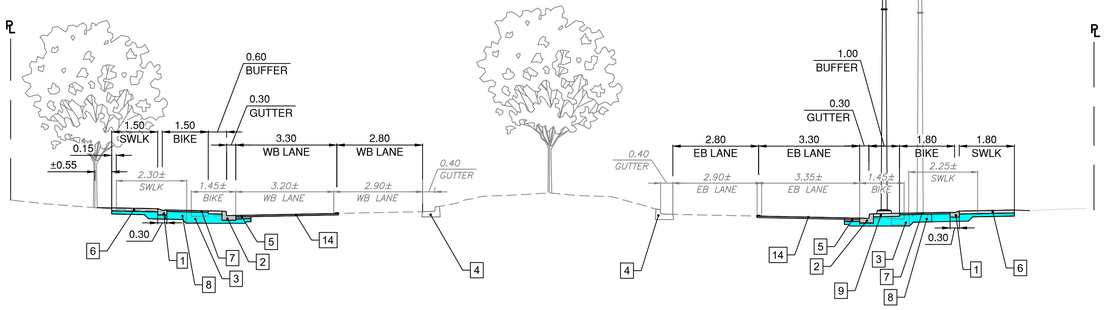
USE ONLY CITY APPROVED MIN. 32 MPA CONCRETE MIX.

CURB TYPE "E"
BIKE/PEDESTRIAN MOUNTABLE SEPARATION CURB WITH GUTTER



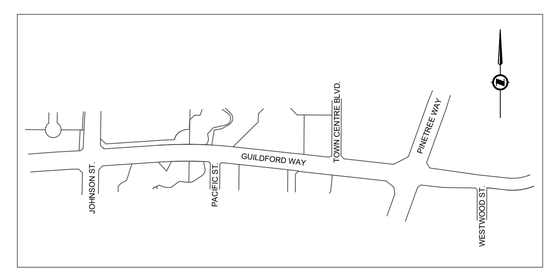
GUILDFORD WAY - TYPICAL SECTION
WEST BOUND WITH STREET LIGHT RELOCATION
PACIFIC STREET TO TOWN CENTRE BLVD

SCALE 1:100



GUILDFORD WAY - TYPICAL SECTION
PACIFIC STREET TO TOWN CENTRE BLVD

SCALE 1:100



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PLOT DATE: April 18, 2024

ISSUED FOR TENDER DESIGN NO. 33376

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	EH	CJB
B	ISSUED FOR TENDER	2024/04/19	EH	CJB

Coquitlam

TYPICAL SECTIONS
GUILDFORD PHASE 2

ISL
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SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 02 OF 22 REV. B

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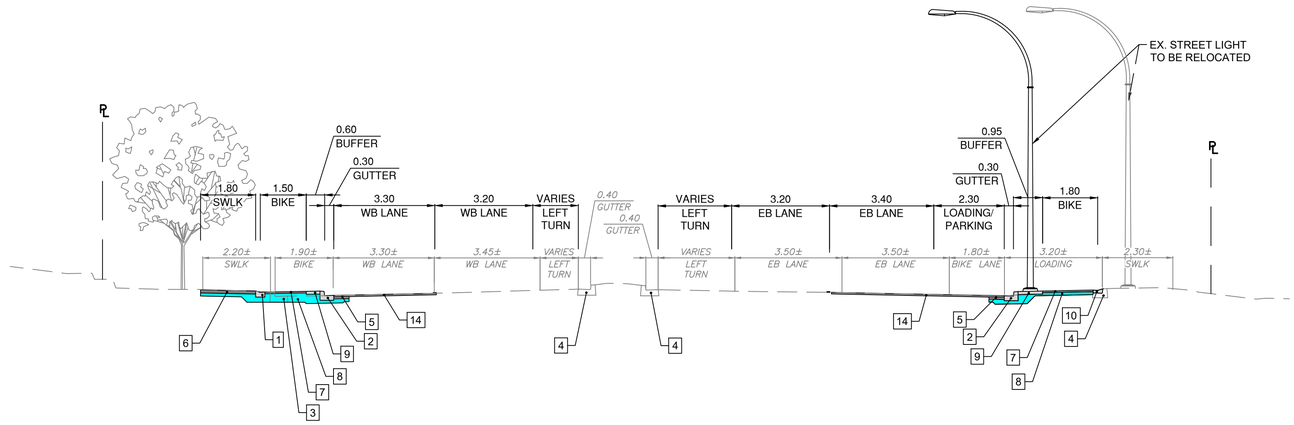
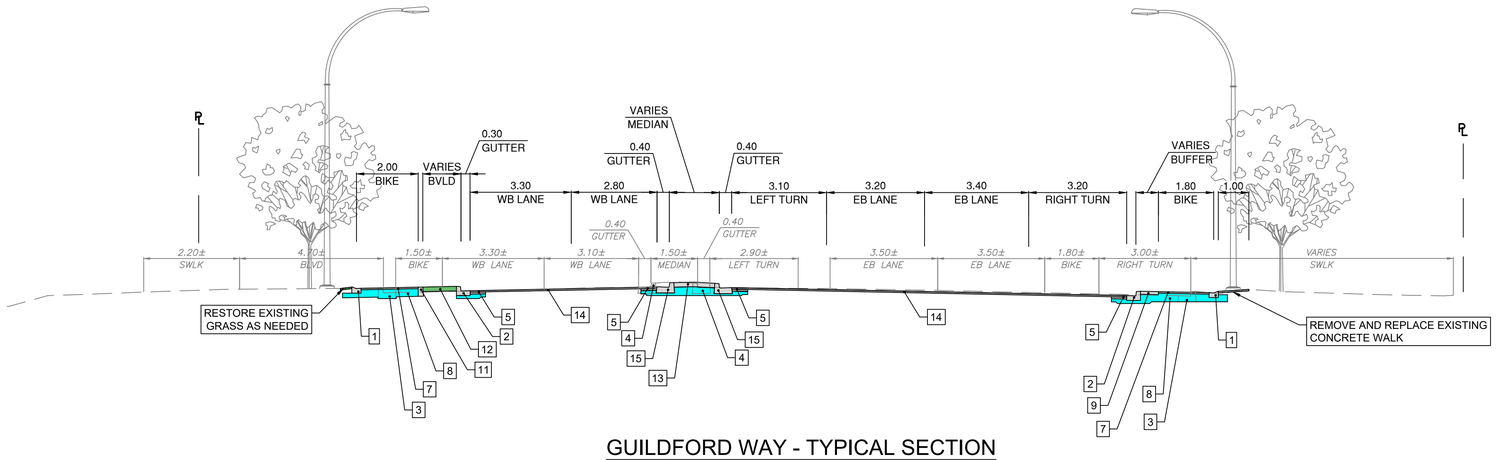


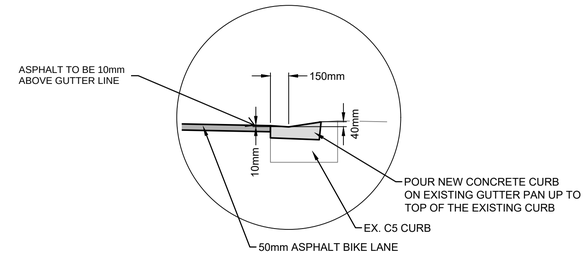
GUILDFORD WAY - TYPICAL SECTION
TOWN CENTRE BLVD TO PINETREE WAY

SCALE 1:100



GUILDFORD WAY - TYPICAL SECTION
TOWN CENTRE BLVD TO PINETREE WAY - AT CITY HALL PLAZA

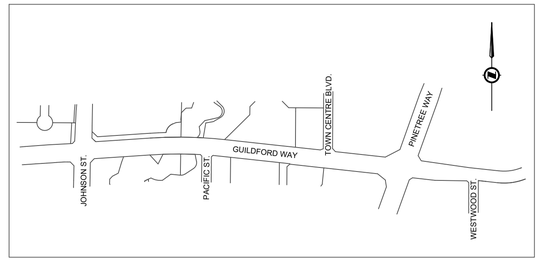
SCALE 1:100



RETROFIT CURB DETAIL
(ALTERNATE SECTION)

SCALE 1:25

1. CITY OF VANCOUVER TYPE E BIKE/PEDESTRIAN MOUNTABLE SEPARATION CURB WITH GUTTER (CoV STD DWG C4.5) - DETAIL ON SHEET 02
2. BARRIER CURB & GUTTER AS PER MMCD C4
3. REMOVE EXISTING CONCRETE BARRIER CURB AND GUTTER
4. RETAIN EXISTING CONCRETE BARRIER CURB AND GUTTER
5. SLOT PAVING - MINIMUM 500mm WIDTH
   - 200MM OF 75MM MINUS CRUSHED GRANULAR SUBBASE COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY (OPTIONAL AS DIRECTED BY CA)
   - 100mm OF 19mm MINUS GRANULAR BASE COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY
   - 65mm LOWER COURSE #1 ASPHALT, COMPACTED TO 95% OF 75 BLOW MARSHALL
   - 50mm MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >95% OF BLOW MARSHALL (TO BE PAVED AS PART OF THE CURB TO CURB FULL TOP LIFT)
6. 100mm CONCRETE SIDEWALK AS PER MMCD C1
7. ASPHALT BIKE PATH - 50mm THICKNESS (USE UPPER COURSE #2 MIXTURE COMPACTED TO 97% OF 75 BLOW MARSHALL
8. 100mm OF 19mm MINUS GRANULAR BASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY
9. MIN. 100mm THICK CONCRETE BUFFER
10. RETROFIT TYPE E CURB ON TOP OF EX GUTTER
11. CURB WITHOUT GUTTER
12. TOPSOIL AND SOD - MIN 150mm OF MMCD IMPORTED TOSOIL AND MMCD SOD
13. 100mm CONCRETE MEDIAN
14. 50mm TOP LIFT AND INLAY
    - MILL TREATMENT AREA TO 50mm DEPTH (INLAY MILLING)
    - CLEAN AND TACK-COAT ASPHALT SURFACES INCLUDING JOINTS.
    - INLAY (WITH PAVER) MILLED AREA WITH NEW HOT MIX ASPHALT TO 50mm THICKNESS (USE MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >95% OF BLOW MARSHALL)
15. BARRIER CURB & GUTTER AS PER MMCD C5



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PLOT DATE: April 18, 2024

ISSUED FOR TENDER DESIGN NO. 33376

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	EH	CJB
B	ISSUED FOR TENDER	2024/04/19	EH	CJB

Coquitlam

TYPICAL SECTIONS 02
GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 03 OF 22 REV. B

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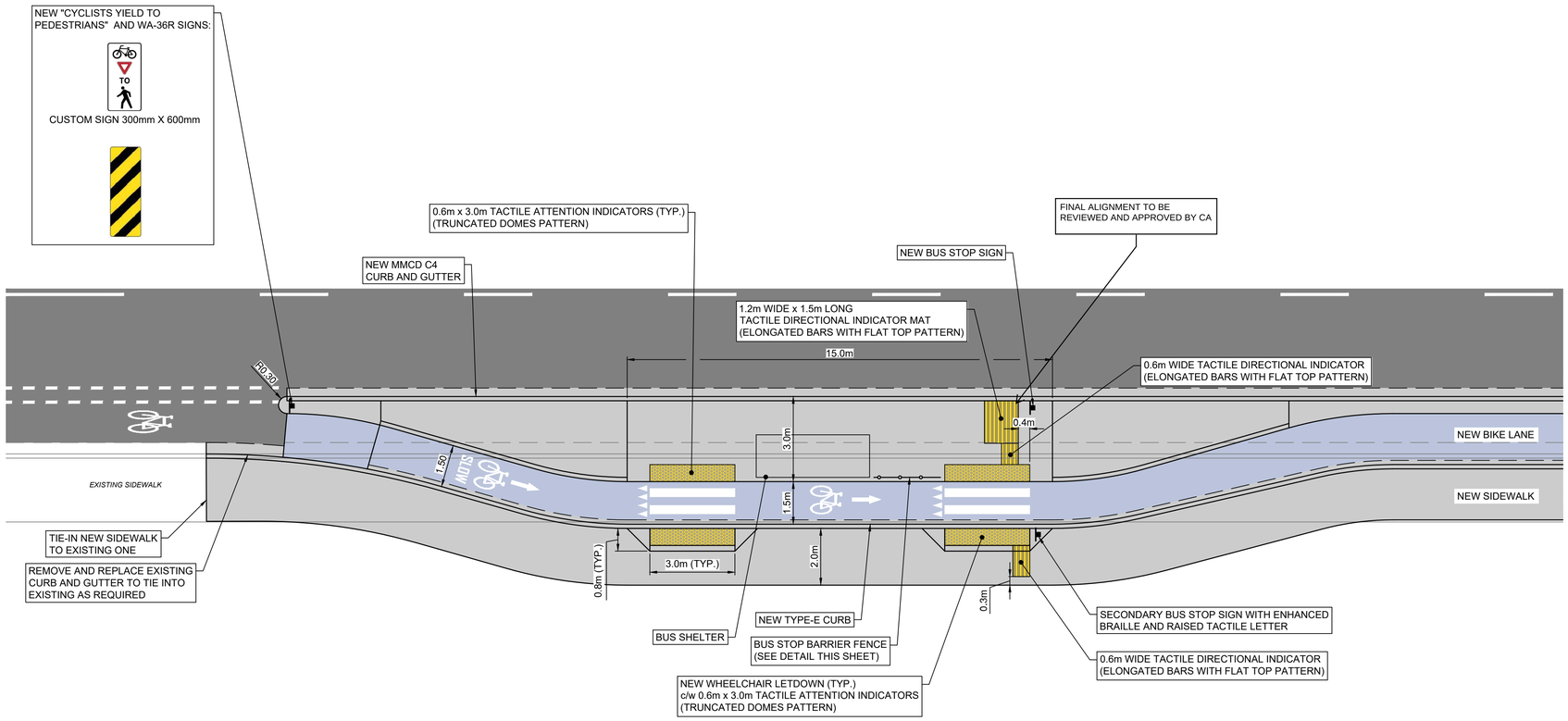
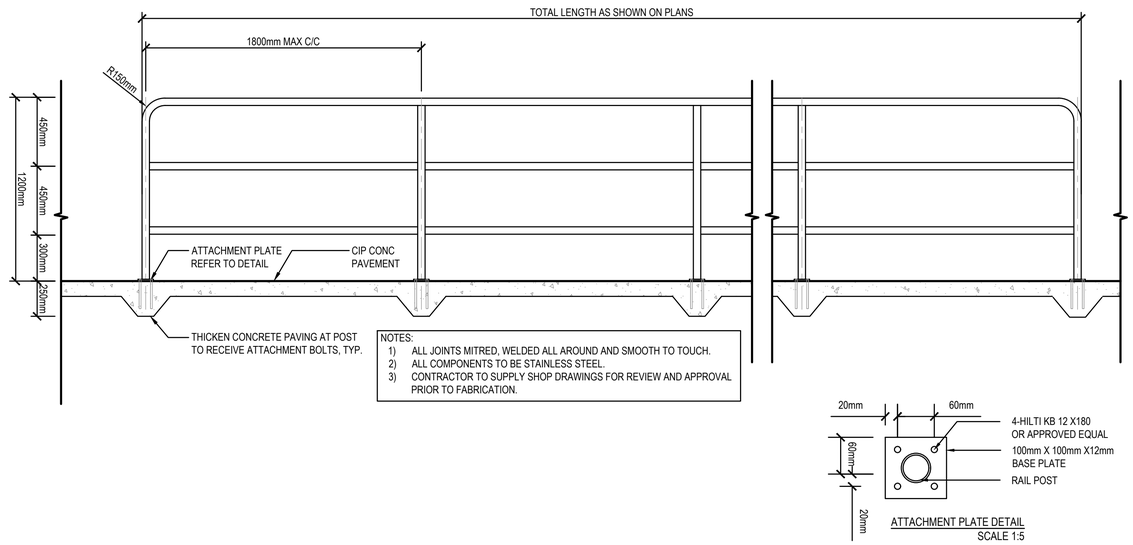


BUS STOP DETAIL

SCALE 1:100



ATTACHMENT PLATE DETAIL
SCALE 1:5

BUS STOP BARRIER FENCE SECTION DETAIL

SCALE 1:20

0 2 6m
1:100

ISSUED FOR TENDER DESIGN NO. 33376

PLOT DATE: April 19, 2024

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	EH	CJB

Coquitlam

ROAD WORKS

DETAILS
GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 04 OF 22
REV. B

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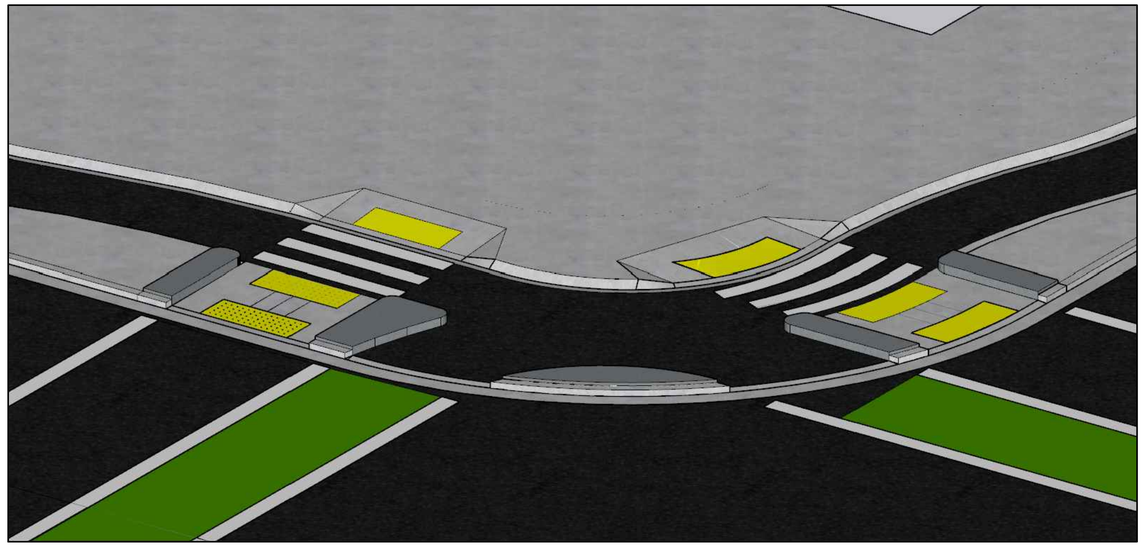
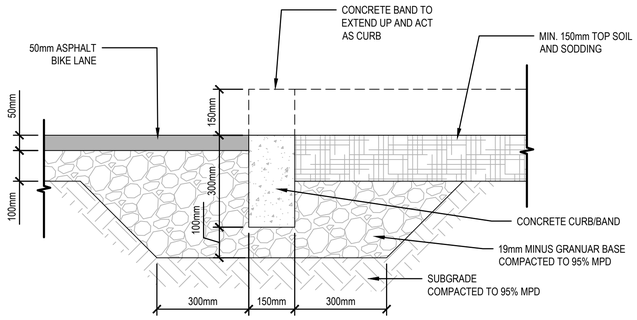


PROTECTED INTERSECTIONS

ISOMETRIC VIEW - NTS



150mm CONCRETE CURB/BAND DETAIL

SCALE 1:10

PLOT DATE: April 19, 2024

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	EH	CJB

Coquitlam

ROAD WORKS

DETAILS 02

GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 05 OF 22

REV. B

ISSUED FOR TENDER DESIGN NO. 33376

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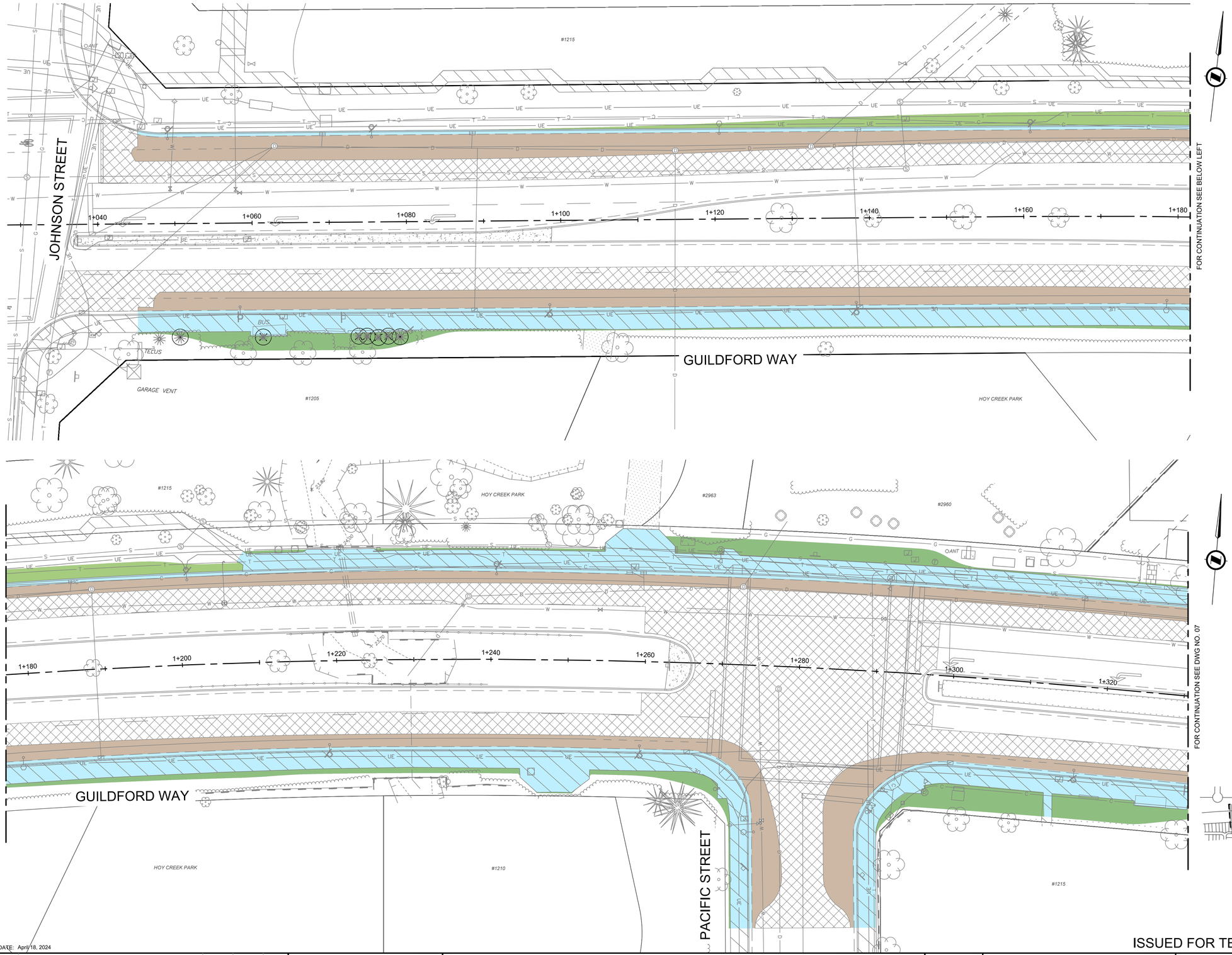

LEGEND

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

PLOT DATE: April 18, 2024

ISSUED FOR TENDER DESIGN NO. 33376

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	EH	CJB
B	ISSUED FOR TENDER	2024/04/19	EH	CJB

Coquitlam

REMOVALS

STA 1+040 TO 1+330

GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 06 OF 22 REV. B

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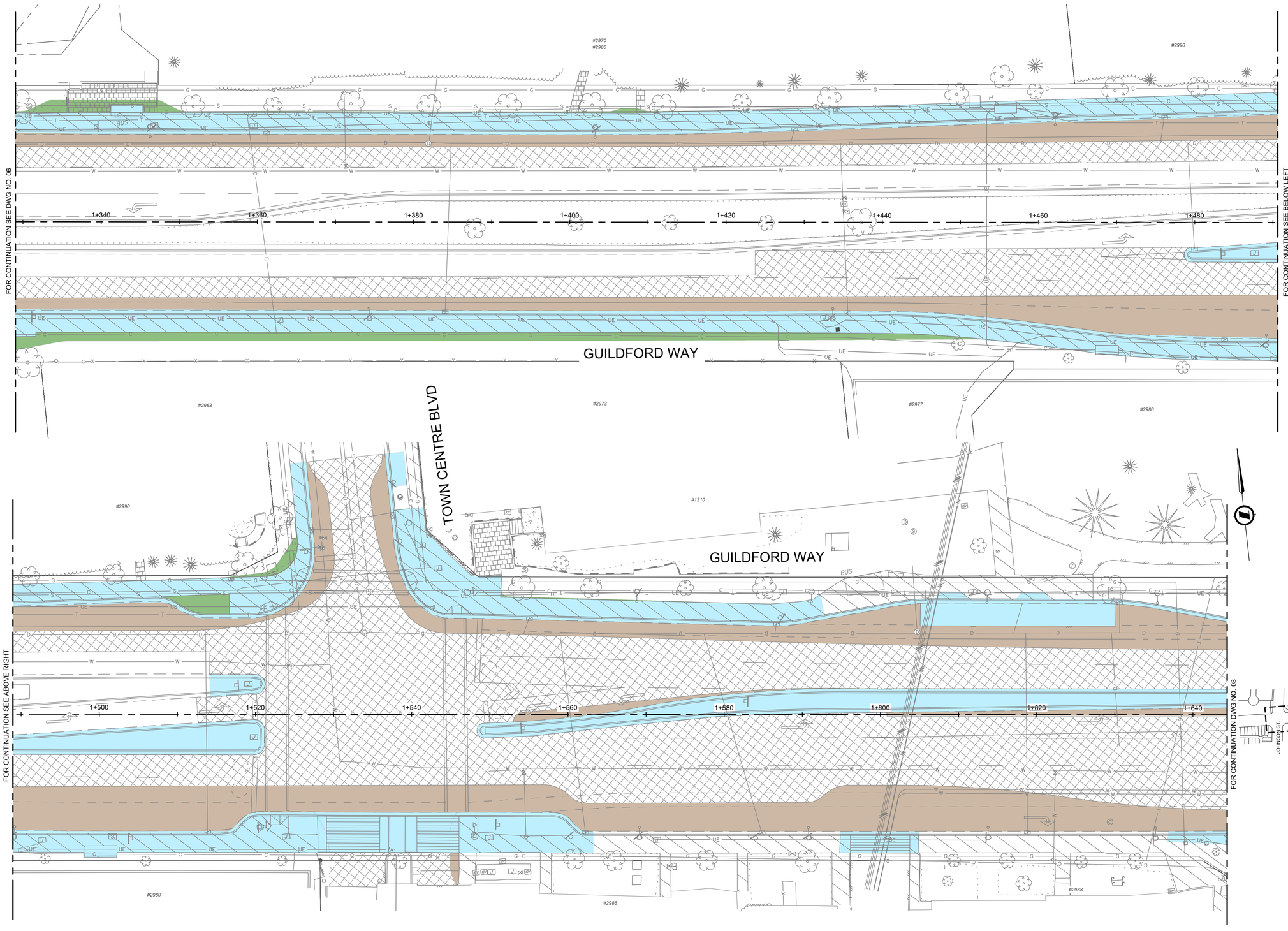
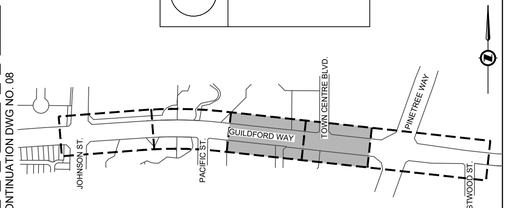


LEGEND

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



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PLOT DATE: April 18, 2024

ISSUED FOR TENDER DESIGN NO. 33376

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	EH	CJB
B	ISSUED FOR TENDER	2024/04/19	EH	CJB

Coquitlam

REMOVALS

STA 1+330 to 1+640

GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 07 OF 22

REV. B

File: g:\Projects\33000\33300\33376_coq_guildford_greenway\02_CAD\20_drafting\202_production\Phase 2\33376_SH_PH2_REMOVALS.dwg

LEGEND

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

EXISTING IRRIGATION TO BE REMOVED

THIS TREE TO BE RELOCATED BY OTHERS

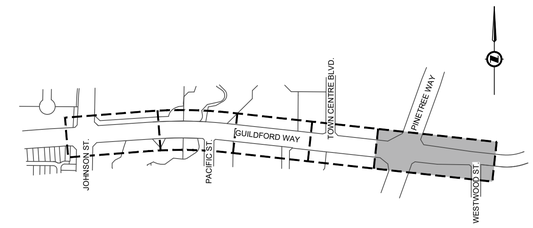
PINETREE WAY

GUILDFORD WAY

REMOVE EXISTING BOLLARDS

1+640 1+660 1+680 1+700 1+720 1+740 1+760 1+780 1+800 1+820

FOR CONTINUATION SEE DWG. NO. 07



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PLOT DATE: April 18, 2024

ISSUED FOR TENDER DESIGN NO. 33376

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	EH	CJB
B	ISSUED FOR TENDER	2024/04/19	EH	CJB

Coquitlam

REMOVALS

STA 1+640 to 1+840

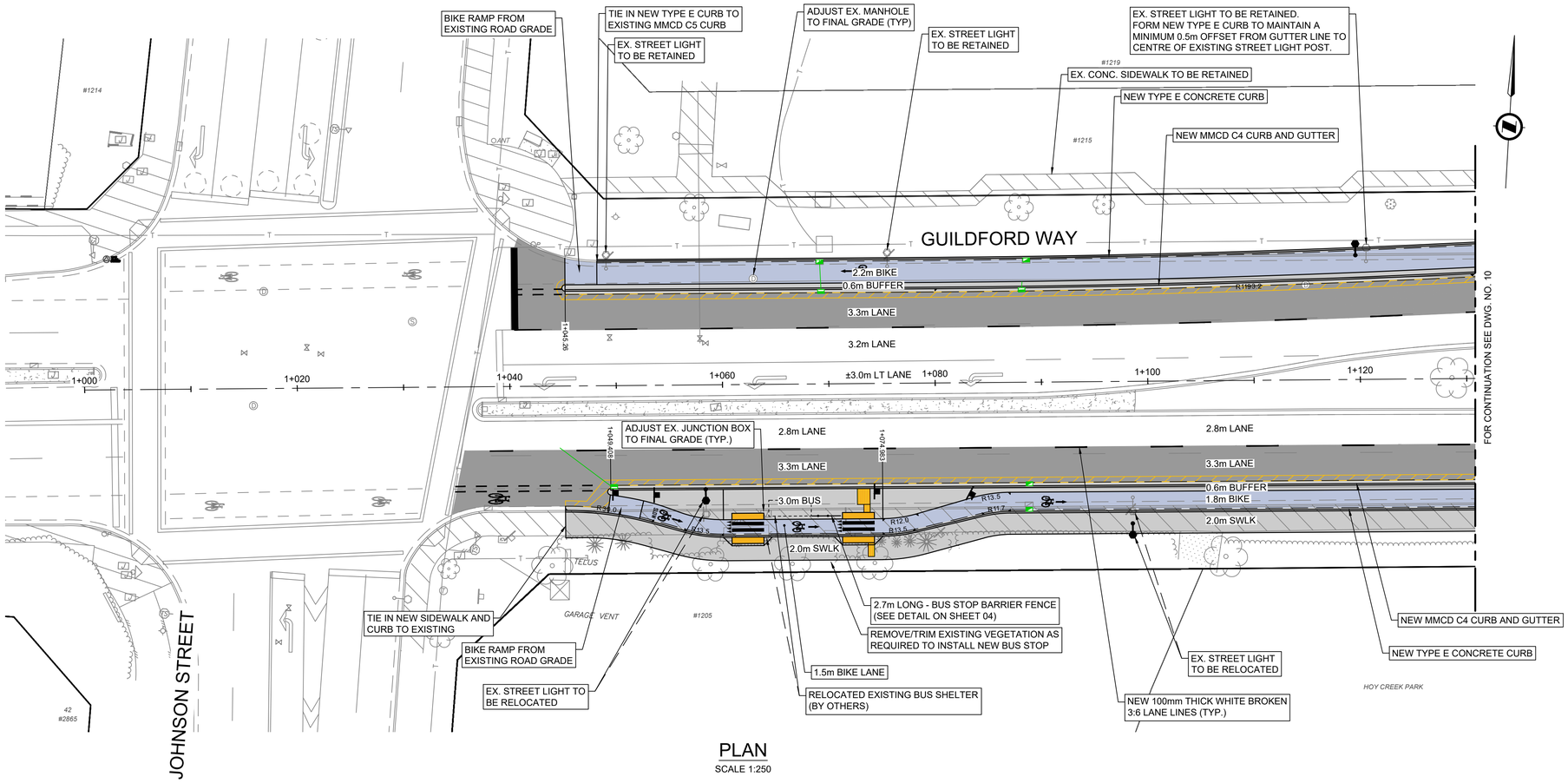
GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 08 OF 22 REV. B

File: g:\Projects\33000\33300\33376_coq_guildford_greenway\02_CADD\20_drafting\202_production\Phase 2\33376_SH_PH2_REMOVALS.dwg



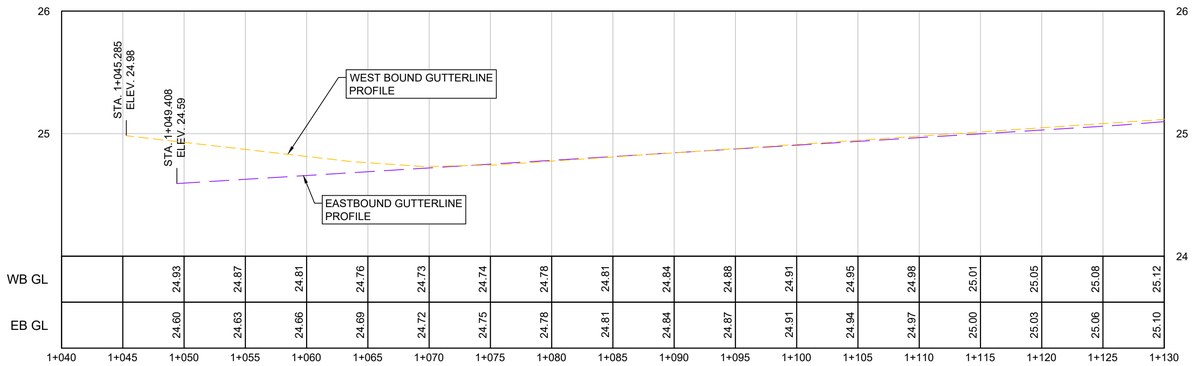
PLAN

SCALE 1:250

SURFACE TREATMENTS	
PATTERN	DESCRIPTION
ASPHALT - FULL DEPTH PAVEMENT	
	50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >97% OF 75 BLOW MARSHALL) 65mm OF MMCD LOWER COURSE #1, COMPACTED TO ≥97% OF 75 BLOW MARSHALL 100mm MIN. - 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO ≥95% OF THE MODIFIED PROCTOR DENSITY
	200mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
ASPHALT - MILLING	
	50mm OF INLAY MILLING 50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER
ASPHALT - BIKE PATHWAY	
	50mm OF MMCD UPPER COURSE ASPHALT #2 100mm OF MMCD GRANULAR BASE 100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - DRIVEWAY LETDOWN	
	200mm MMCD PORTLAND CEMENT CONCRETE 100mm OF MMCD GRANULAR BASE 100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - SIDEWALK / CURB / BANDING	
	CONCRETE SIDEWALK AND INFILL (SEE DETAILS ON SHEET 3)
	MMCD C4 CURB AND GUTTER
	TYPE E CURB AND GUTTER
	MMCD C5 CURB AND GUTTER
	RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS
	RETROFIT TYPE CONCRETE CURB ON TOP OF EX. GUTTER
LANDSCAPING	
	MIN. 150mm TOPSOIL AND SODDING

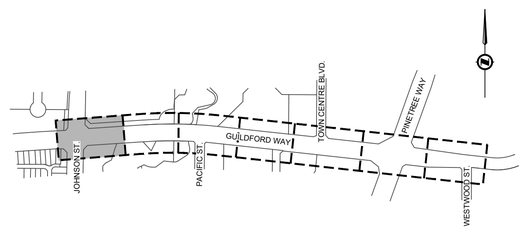
NOTES:

1. ALL LANE WIDTHS EXCLUDE THE GUTTER PAN.
2. ALL BUFFER WIDTHS ARE MEASURED FROM THE FACE OF CURB.
3. REFER TO THE STORM SHEETS FOR LOCATIONS OF EXISTING UNDERGROUND UTILITIES.



PROFILE

SCALE 1:250H / 1:25V



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PLOT DATE: April 19, 2024

ISSUED FOR TENDER DESIGN NO. 33376

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

ROAD WORKS

STA 1+000 TO 1+130

GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 09 OF 22 REV. B

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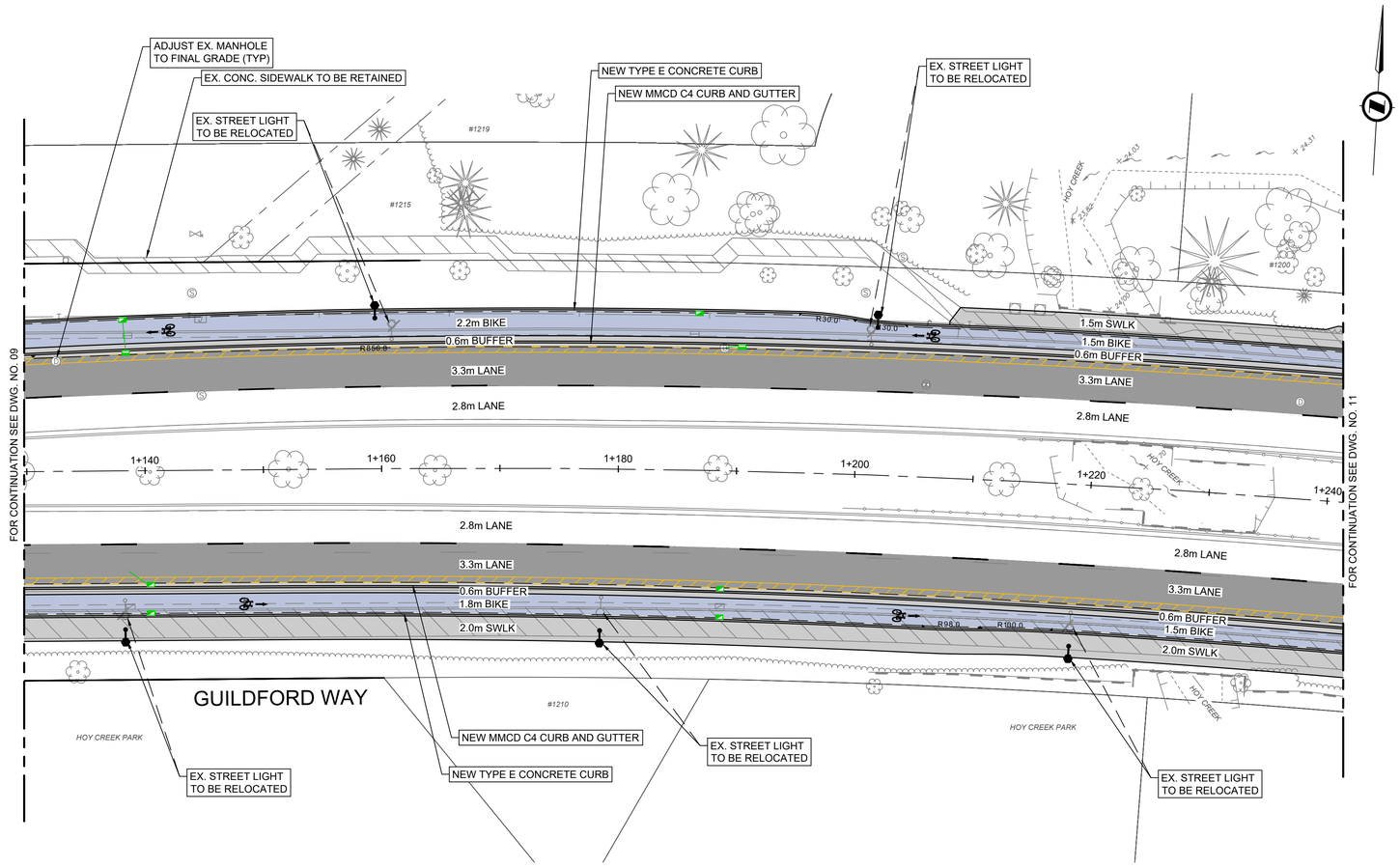
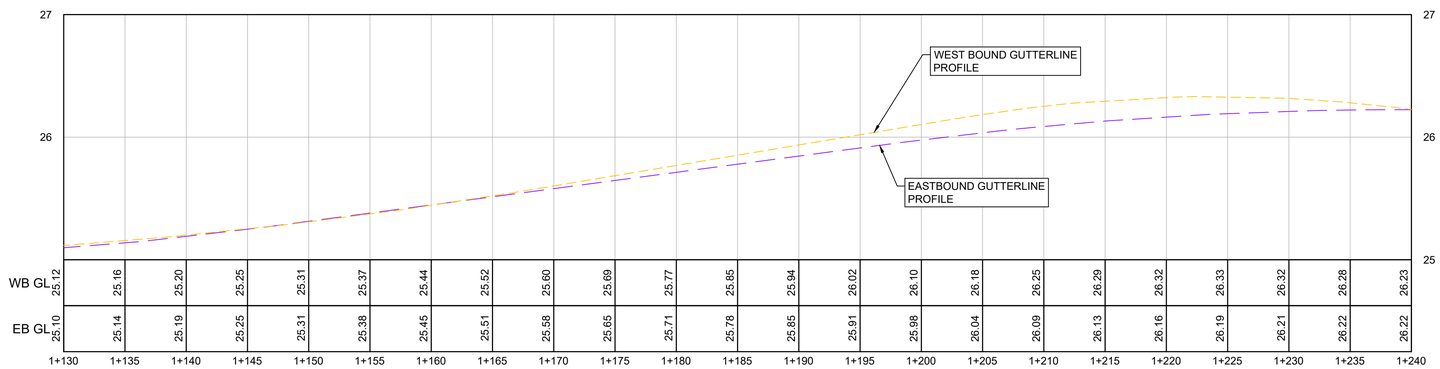


SURFACE TREATMENTS

PATTERN	DESCRIPTION
ASPHALT - FULL DEPTH PAVEMENT	
	50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >97% OF 75 BLOW MARSHALL)
	65mm OF MMCD LOWER COURSE #1, COMPACTED TO ≥97% OF 75 BLOW MARSHALL 100mm MIN. - 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO ≥95% OF THE MODIFIED PROCTOR DENSITY
	200mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
ASPHALT - MILLING	
	50mm OF INLAY MILLING 50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER
ASPHALT - BIKE PATHWAY	
	50mm OF MMCD UPPER COURSE ASPHALT #2 100mm OF MMCD GRANULAR BASE 100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - DRIVEWAY LETDOWN	
	200mm MMCD PORTLAND CEMENT CONCRETE 100mm OF MMCD GRANULAR BASE 100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - SIDEWALK / CURB / BANDING	
	CONCRETE SIDEWALK AND INFILL (SEE DETAILS ON SHEET 3)
	MMCD C4 CURB AND GUTTER
	TYPE E CURB AND GUTTER
	MMCD C5 CURB AND GUTTER
	RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS
	RETROFIT TYPE CONCRETE CURB ON TOP OF EX. GUTTER
LANDSCAPING	
	MIN. 150mm TOPSOIL AND SODDING

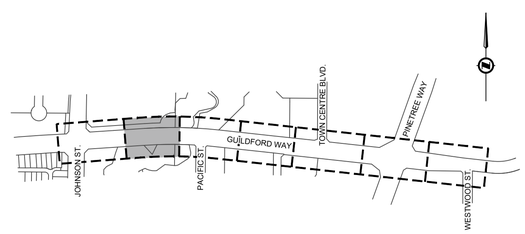
NOTES:

1. ALL LANE WIDTHS EXCLUDE THE GUTTER PAN.
2. ALL BUFFER WIDTHS ARE MEASURED FROM THE FACE OF CURB.
3. REFER TO THE STORM SHEETS FOR LOCATIONS OF EXISTING UNDERGROUND UTILITIES.



PROFILE

SCALE 1:250H / 1:25V



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ISSUED FOR TENDER DESIGN NO. 33376

PLOT DATE: April 19, 2024

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

ROAD WORKS

STA 1+130 TO 1+240

GUILDFORD PHASE 2

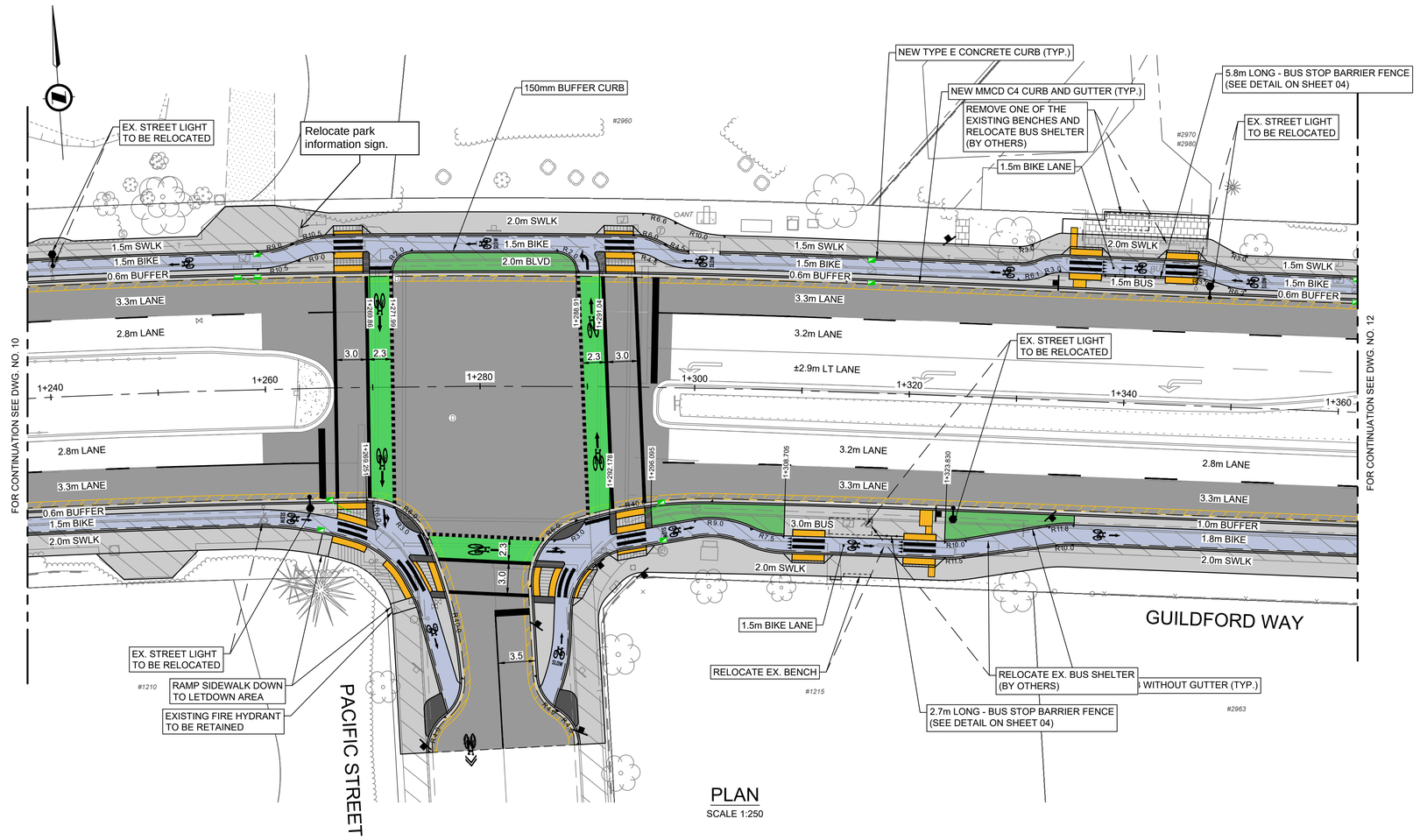
ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

SCALE	AS SHOWN	CREATION DATE	MAY - 2023
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

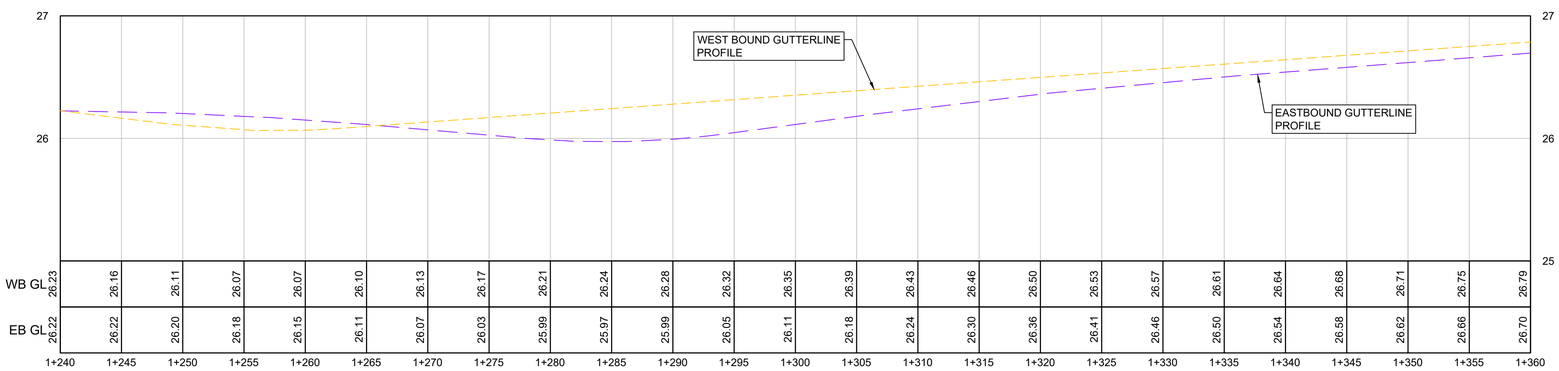
DWG. NO. 10 OF 22

REV. B

File: g:\Projects\330000\330300\33376_coq_guildford_greenway\02_CAD\D20_drafting\202_production\Phase 2\33376_SH_PH2_ROADWORKS.dwg



PLAN
SCALE 1:250



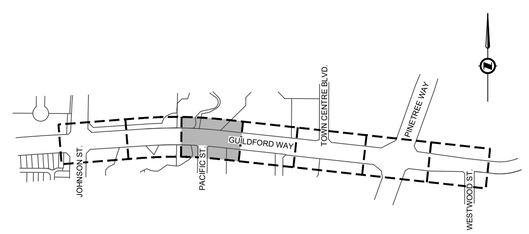
PROFILE
SCALE 1:250H / 1:25V

SURFACE TREATMENTS

PATTERN	DESCRIPTION
ASPHALT - FULL DEPTH PAVEMENT	
	50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >97% OF 75 BLOW MARSHALL)
	65mm OF MMCD LOWER COURSE #1, COMPACTED TO ≥97% OF 75 BLOW MARSHALL
	100mm MIN. - 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO ≥95% OF THE MODIFIED PROCTOR DENSITY
	200mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
ASPHALT - MILLING	
	50mm OF INI AY MII I ING 50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER
ASPHALT - BIKE PATHWAY	
	50mm OF MMCD UPPER COURSE ASPHALT #2
	100mm OF MMCD GRANULAR BASE
	100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - DRIVEWAY LETDOWN	
	200mm MMCD PORTLAND CEMENT CONCRETE
	100mm OF MMCD GRANULAR BASE
	100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - SIDEWALK / CURB / BANDING	
	CONCRETE SIDEWALK AND INFILL (SEE DETAILS ON SHEET 3)
	MMCD C4 CURB AND GUTTER
	TYPE E CURB AND GUTTER
	MMCD C5 CURB AND GUTTER
	RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS
	RETROFIT TYPE CONCRETE CURB ON TOP OF EX. GUTTER
LANDSCAPING	
	MIN. 150mm TOPSOIL AND SODDING

NOTES:

1. ALL LANE WIDTHS EXCLUDE THE GUTTER PAN.
2. ALL BUFFER WIDTHS ARE MEASURED FROM THE FACE OF CURB.
3. REFER TO THE STORM SHEETS FOR LOCATIONS OF EXISTING UNDERGROUND UTILITIES.



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ISSUED FOR TENDER DESIGN NO. 33376

PLOT DATE: April 19, 2024

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

ROAD WORKS

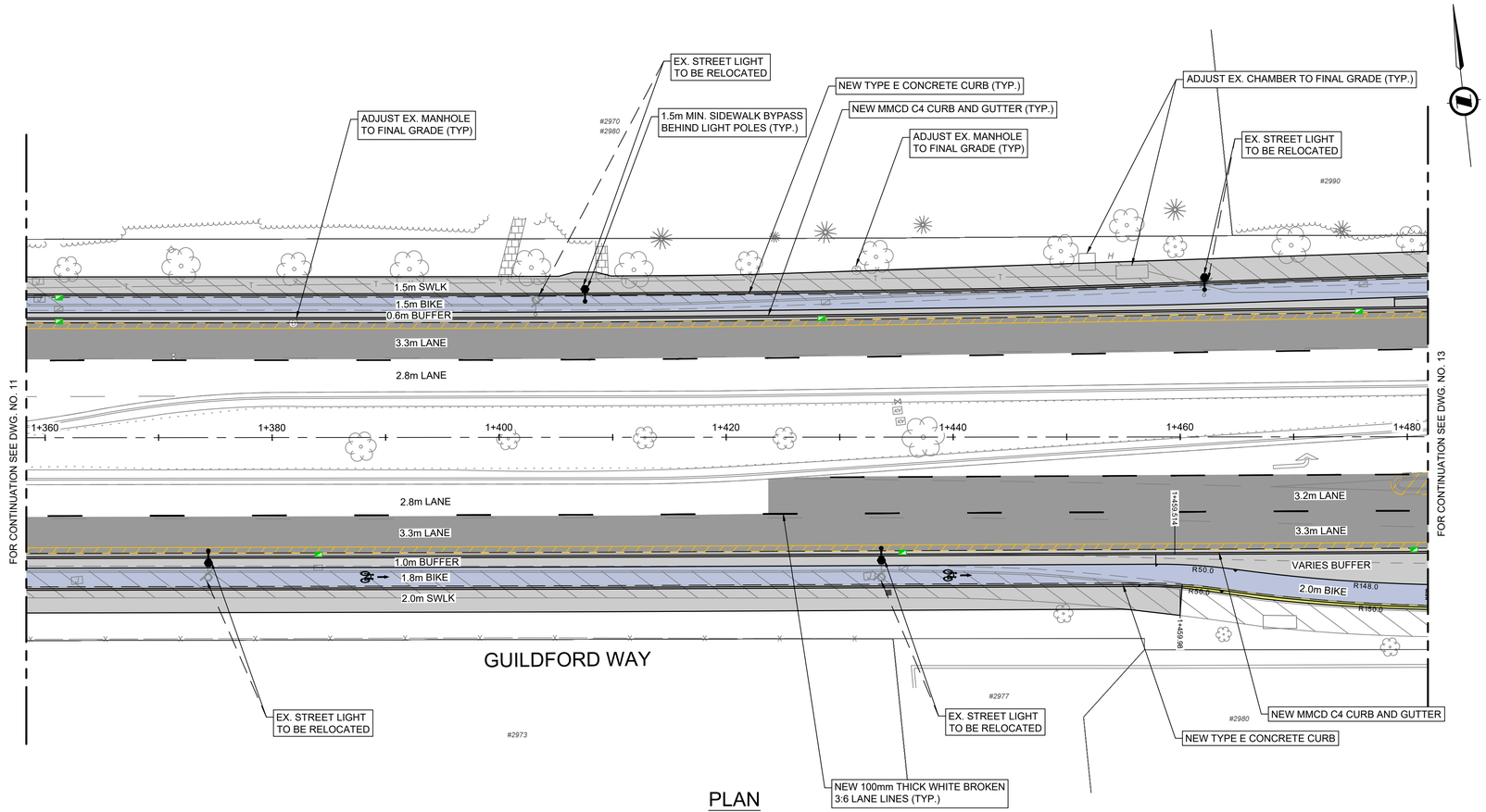
STA 1+240 TO 1+360
GUILDFORD PHASE 2

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

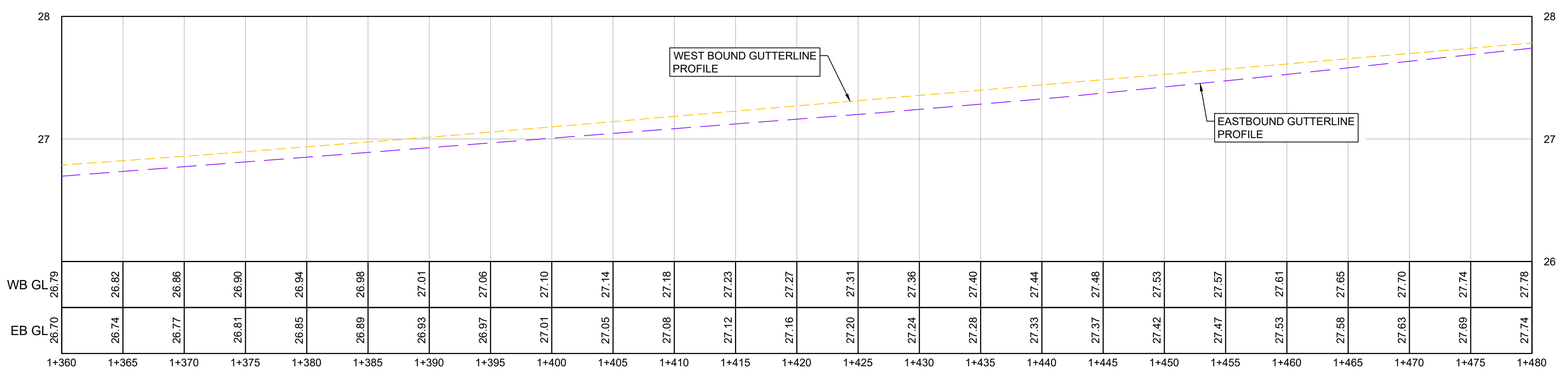
SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 11 OF 22
REV. B

File: g:\Projects\33000\33300\33376_coq_guildford_greenway\02_CADD\20_drafting\202_production\Phase 2\33376_SH_PH2_ROADWORKS.dwg



PLAN
SCALE 1:250



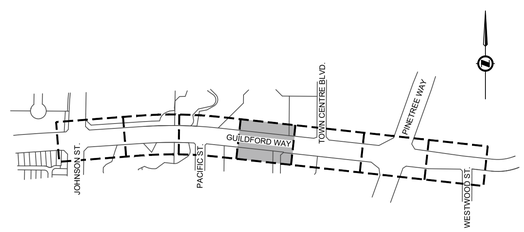
PROFILE
SCALE 1:250H / 1:25V

SURFACE TREATMENTS

PATTERN	DESCRIPTION
ASPHALT - FULL DEPTH PAVEMENT	
	50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >97% OF 75 BLOW MARSHALL)
	65mm OF MMCD LOWER COURSE #1, COMPACTED TO ≥97% OF 75 BLOW MARSHALL
	100mm MIN. - 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO ≥95% OF THE MODIFIED PROCTOR DENSITY
	200mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
ASPHALT - MILLING	
	50mm OF INLAY MILLING 50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER
ASPHALT - BIKE PATHWAY	
	50mm OF MMCD UPPER COURSE ASPHALT #2
	100mm OF MMCD GRANULAR BASE
	100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - DRIVEWAY LETDOWN	
	200mm MMCD PORTLAND CEMENT CONCRETE
	100mm OF MMCD GRANULAR BASE
	100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - SIDEWALK / CURB / BANDING	
	CONCRETE SIDEWALK AND INFILL (SEE DETAILS ON SHEET 3)
	MMCD C4 CURB AND GUTTER
	TYPE E CURB AND GUTTER
	MMCD C5 CURB AND GUTTER
	RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS
	RETROFIT TYPE CONCRETE CURB ON TOP OF EX. GUTTER
LANDSCAPING	
	MIN. 150mm TOPSOIL AND SODDING

NOTES:

1. ALL LANE WIDTHS EXCLUDE THE GUTTER PAN.
2. ALL BUFFER WIDTHS ARE MEASURED FROM THE FACE OF CURB.
3. REFER TO THE STORM SHEETS FOR LOCATIONS OF EXISTING UNDERGROUND UTILITIES.



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ISSUED FOR TENDER DESIGN NO. 33376

PLOT DATE: April 19, 2024

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

ROAD WORKS

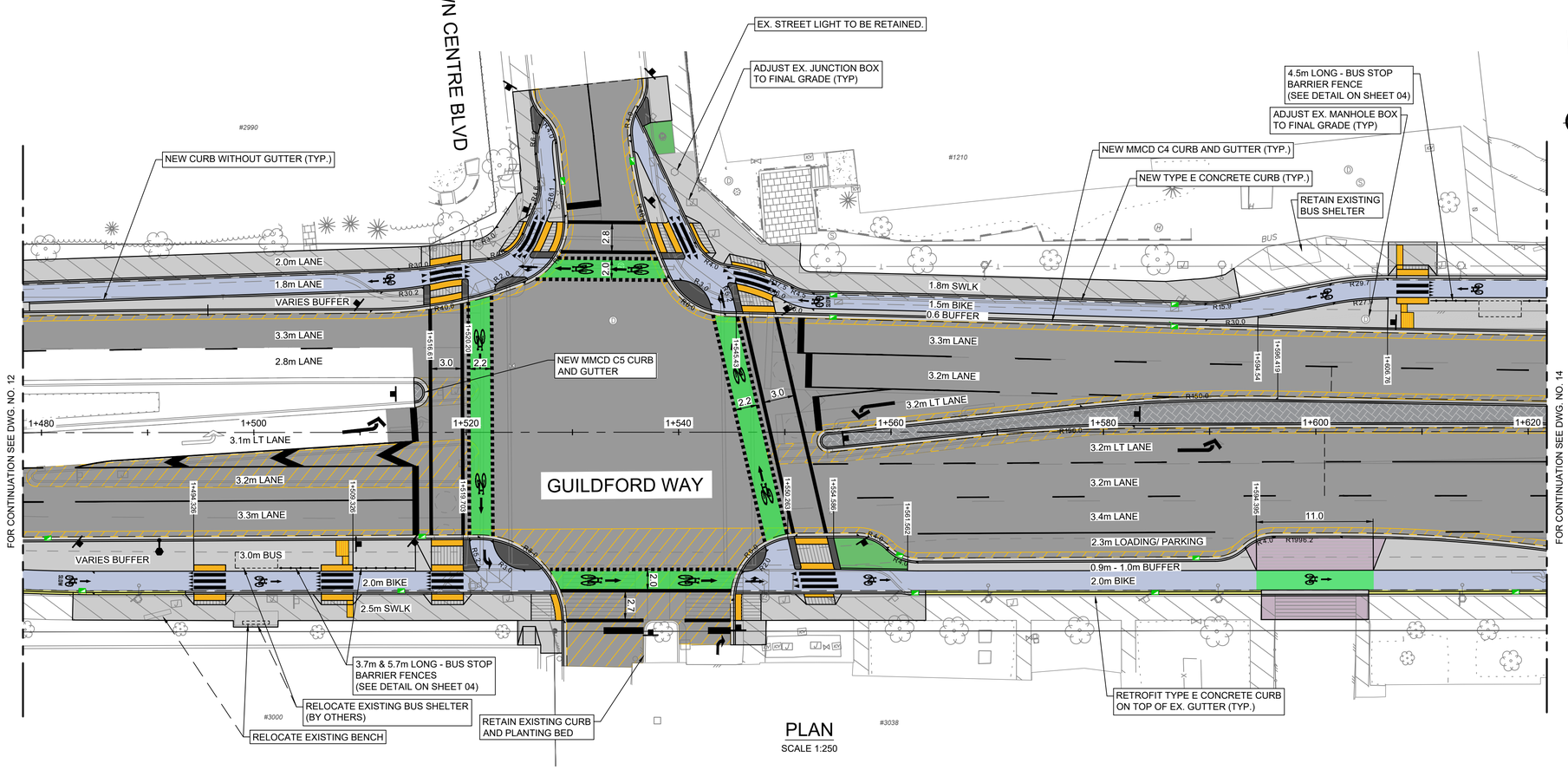
STA 1+360 TO 1+480
GUILDFORD PHASE 2

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

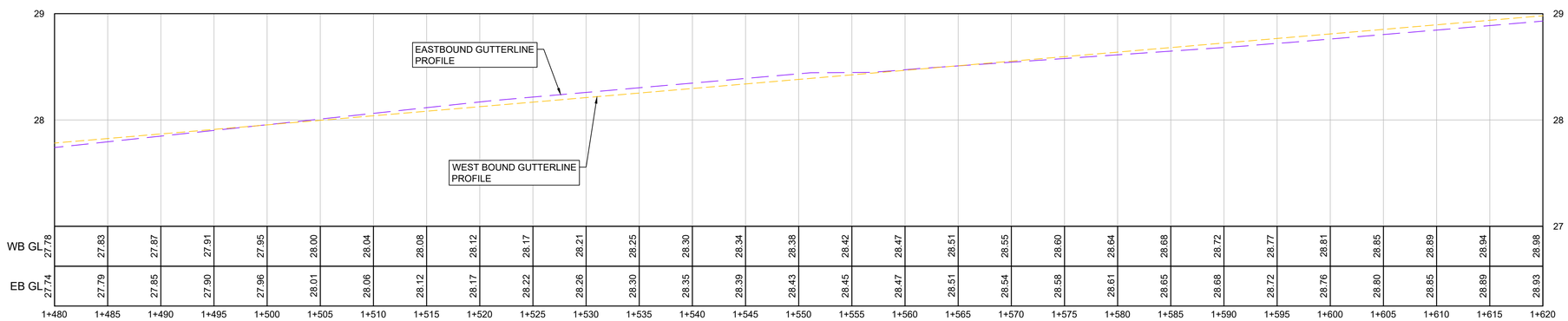
SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 12 OF 22 REV. B

File: g:\Projects\33000\33300\33376_coq_guildford_greenway\02_CAD\20_drafting\202_production\Phase 2\33376_SH_PH2_ROADWORKS.dwg



PLAN
SCALE 1:250



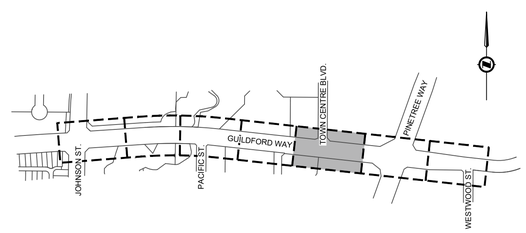
PROFILE
SCALE 1:250H / 1:25V

SURFACE TREATMENTS

PATTERN	DESCRIPTION
ASPHALT - FULL DEPTH PAVEMENT	
	50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >97% OF 75 BLOW MARSHALL)
	65mm OF MMCD LOWER COURSE #1, COMPACTED TO ≥97% OF 75 BLOW MARSHALL
	100mm MIN. - 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO ≥95% OF THE MODIFIED PROCTOR DENSITY
	200mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
ASPHALT - MILLING	
	50mm OF INLAY MILLING 50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER
ASPHALT - BIKE PATHWAY	
	50mm OF MMCD UPPER COURSE ASPHALT #2
	100mm OF MMCD GRANULAR BASE
	100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - DRIVEWAY LETDOWN	
	200mm MMCD PORTLAND CEMENT CONCRETE
	100mm OF MMCD GRANULAR BASE
	100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - SIDEWALK / CURB / BANDING	
	CONCRETE SIDEWALK AND INFILL (SEE DETAILS ON SHEET 3)
	MMCD C4 CURB AND GUTTER
	TYPE E CURB AND GUTTER
	MMCD C5 CURB AND GUTTER
	RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS
	RETROFIT TYPE CONCRETE CURB ON TOP OF EX. GUTTER
LANDSCAPING	
	MIN. 150mm TOPSOIL AND SODDING

NOTES:

1. ALL LANE WIDTHS EXCLUDE THE GUTTER PAN.
2. ALL BUFFER WIDTHS ARE MEASURED FROM THE FACE OF CURB.
3. REFER TO THE STORM SHEETS FOR LOCATIONS OF EXISTING UNDERGROUND UTILITIES.



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PLOT DATE: April 19, 2024

ISSUED FOR TENDER DESIGN NO. 33376

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

ROAD WORKS

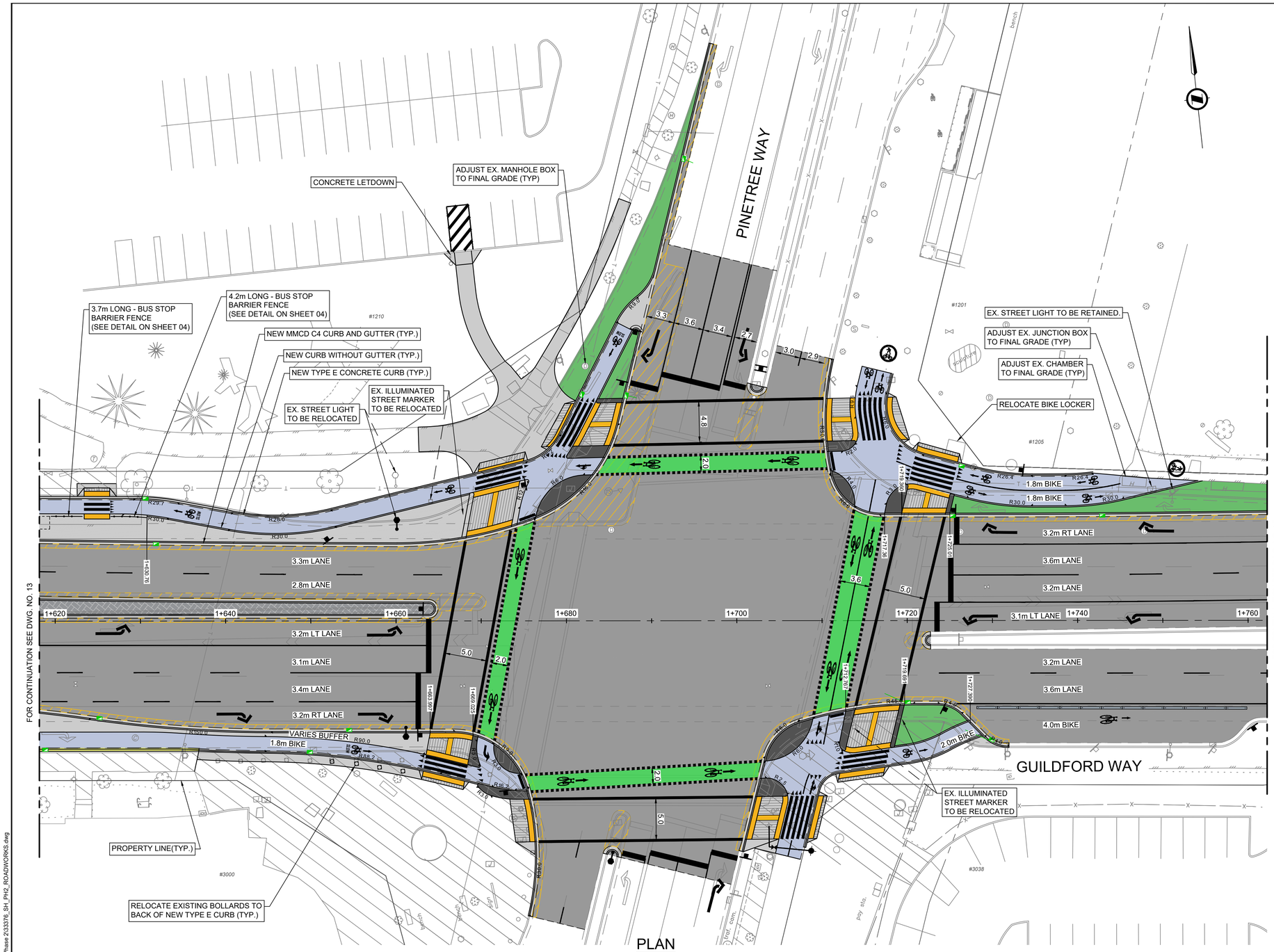
STA 1+480 TO 1+620
GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 13 OF 22
REV. B

File: g:\Projects\33000\33300\33376_coq_guildford_greenway\02_CADD\20_drafting\200_production\Phase 2\33376_SH_PH2_ROADWORKS.dwg



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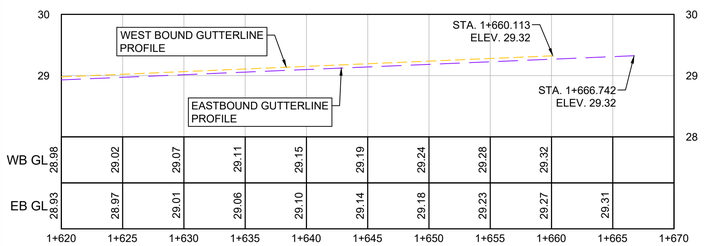
SCALE 1:250



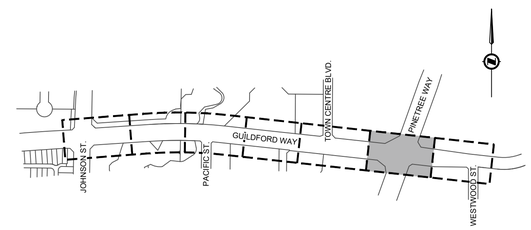
PROFILE
SCALE 1:250H / 1:50V

SURFACE TREATMENTS

PATTERN	DESCRIPTION
ASPHALT - FULL DEPTH PAVEMENT	
	50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >97% OF 75 BLOW MARSHALL) 65mm OF MMCD LOWER COURSE #1, COMPACTED TO ≥97% OF 75 BLOW MARSHALL 100mm MIN. - 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO ≥95% OF THE MODIFIED PROCTOR DENSITY
	200mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
ASPHALT - MILLING	
	50mm OF INLAY MILLING 50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER
ASPHALT - BIKE PATHWAY	
	50mm OF MMCD UPPER COURSE ASPHALT #2 100mm OF MMCD GRANULAR BASE 100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - DRIVEWAY LETDOWN	
	200mm MMCD PORTLAND CEMENT CONCRETE 100mm OF MMCD GRANULAR BASE 100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - SIDEWALK / CURB / BANDING	
	CONCRETE SIDEWALK AND INFILL (SEE DETAILS ON SHEET 3)
	MMCD C4 CURB AND GUTTER
	TYPE E CURB AND GUTTER
	MMCD C5 CURB AND GUTTER
	RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS
	RETROFIT TYPE CONCRETE CURB ON TOP OF EX. GUTTER
LANDSCAPING	
	MIN. 150mm TOPSOIL AND SODDING

NOTES:

1. ALL LANE WIDTHS EXCLUDE THE GUTTER PAN.
2. ALL BUFFER WIDTHS ARE MEASURED FROM THE FACE OF CURB.
3. REFER TO THE STORM SHEETS FOR LOCATIONS OF EXISTING UNDERGROUND UTILITIES.



1:250 0 5 15m

PLOT DATE: April 19, 2024

ISSUED FOR TENDER DESIGN NO. 33376

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

ROAD WORKS

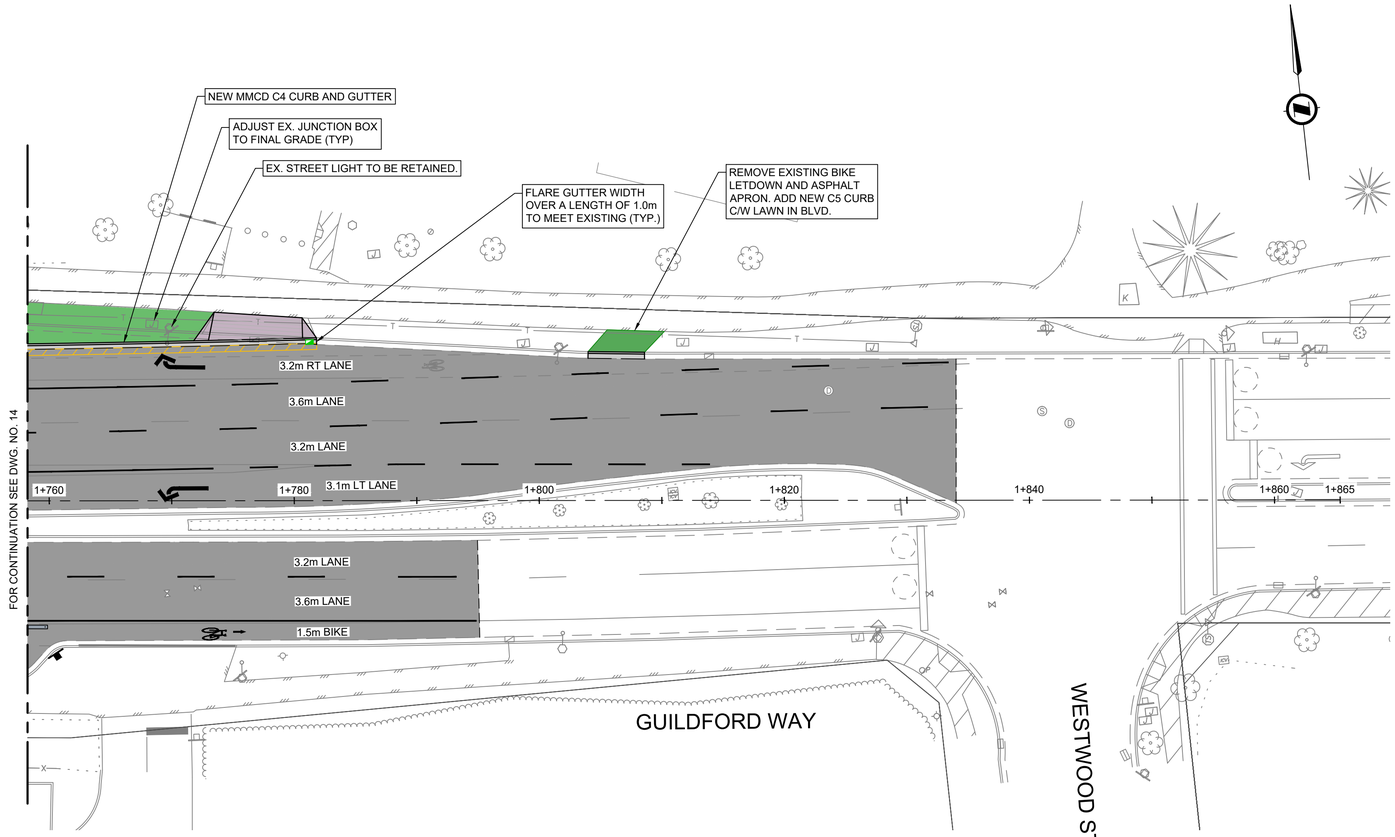
STA 1+620 TO 1+760
GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 14 OF 22
REV. B

File: q:\Projects\33000\33300\33376_coq_guildford_greenway\02_CADD\20_drafting\202_production\Phase 2\33376_SH_PH2_ROADWORKS.dwg



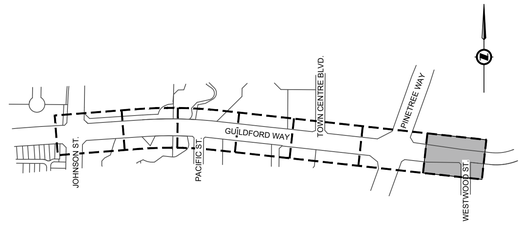
PLAN
SCALE 1:250

SURFACE TREATMENTS

PATTERN	DESCRIPTION
ASPHALT - FULL DEPTH PAVEMENT	
	50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER COMPACTED TO >97% OF 75 BLOW MARSHALL) 65mm OF MMCD LOWER COURSE #1, COMPACTED TO ≥97% OF 75 BLOW MARSHALL 100mm MIN. - 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO ≥95% OF THE MODIFIED PROCTOR DENSITY 200mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
ASPHALT - MILLING	
	50mm OF INLAY MILLING 50mm OF MOT CLASS 1 MEDIUM MIX WITH 80-100 GROUP A ASPHALT BINDER
ASPHALT - BIKE PATHWAY	
	50mm OF MMCD UPPER COURSE ASPHALT #2 100mm OF MMCD GRANULAR BASE 100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - DRIVEWAY LETDOWN	
	200mm MMCD PORTLAND CEMENT CONCRETE 100mm OF MMCD GRANULAR BASE 100mm OF MMCD CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY THE CONTRACT ADMINISTRATOR
CONCRETE - SIDEWALK / CURB / BANDING	
	CONCRETE SIDEWALK AND INFILL (SEE DETAILS ON SHEET 3)
	MMCD C4 CURB AND GUTTER
	TYPE E CURB AND GUTTER
	MMCD C5 CURB AND GUTTER
	RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS
	RETROFIT TYPE CONCRETE CURB ON TOP OF EX. GUTTER
LANDSCAPING	
	MIN. 150mm TOPSOIL AND SODDING

NOTES:

1. ALL LANE WIDTHS EXCLUDE THE GUTTER PAN.
2. ALL BUFFER WIDTHS ARE MEASURED FROM THE FACE OF CURB.
3. REFER TO THE STORM SHEETS FOR LOCATIONS OF EXISTING UNDERGROUND UTILITIES.



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ISSUED FOR TENDER DESIGN NO. 33376

PLOT DATE: April 19, 2024

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

ROAD WORKS

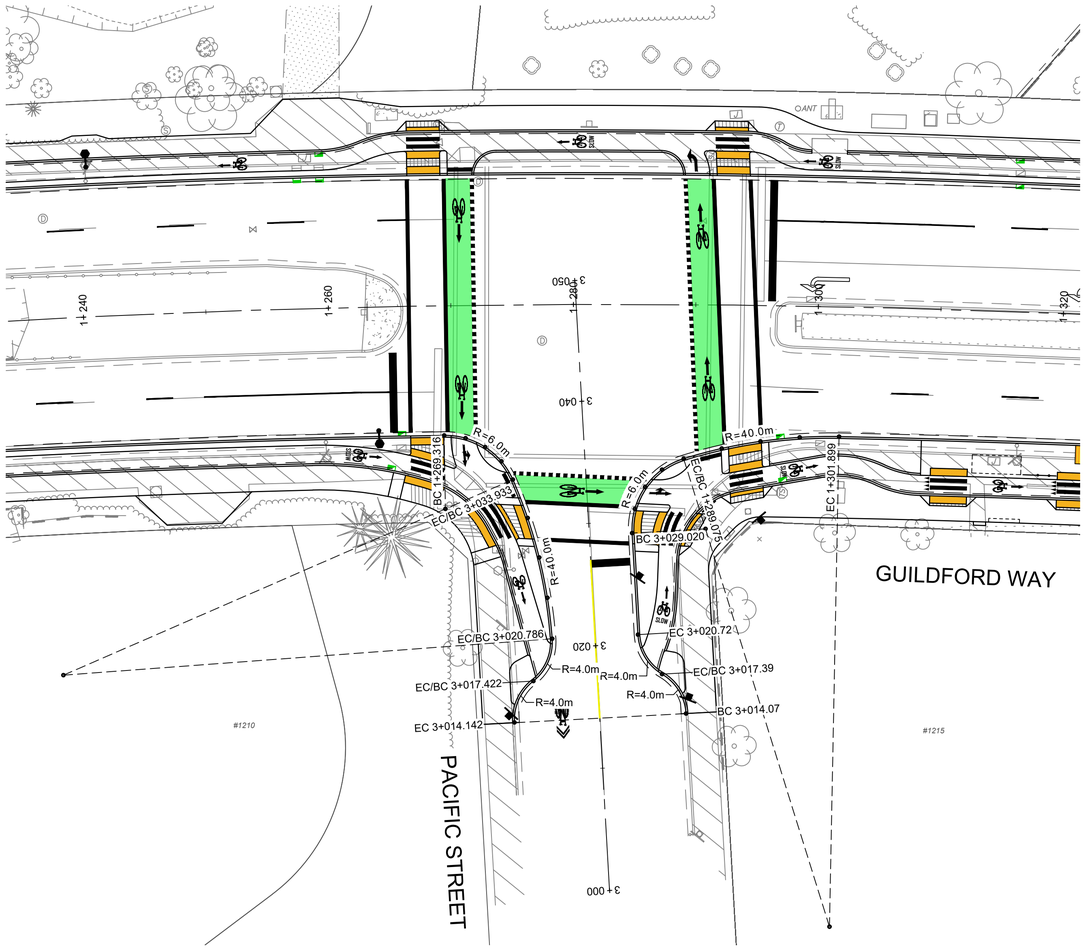
STA 1+760 TO 1+860
GUILDFORD PHASE 2

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

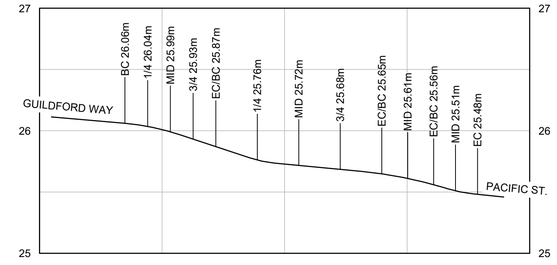
SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 15 OF 22
REV. B

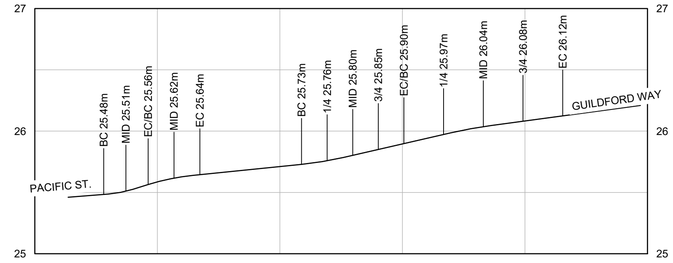
File: g:\Projects\33000\33300\33376_coq_guildford_greenway\02_CADD\20_drafting\202_production\Phase 2\33376_SH_PH2_ROADWORKS.dwg



GUILDFORD WAY & PACIFIC STREET INTERSECTION
PLAN VIEW
SCALE 1:250



GUILDFORD WAY & PACIFIC STREET INTERSECTION
SW GUTTERLINE CURB RETURN PROFILE
SCALE 1:250H / 1:25V



GUILDFORD WAY & PACIFIC STREET INTERSECTION
SE GUTTERLINE CURB RETURN PROFILE
SCALE 1:250H / 1:25V

1:250 0 5 15m

ISSUED FOR TENDER DESIGN NO. 33376

PLOT DATE: April 19, 2024

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

ROAD WORKS

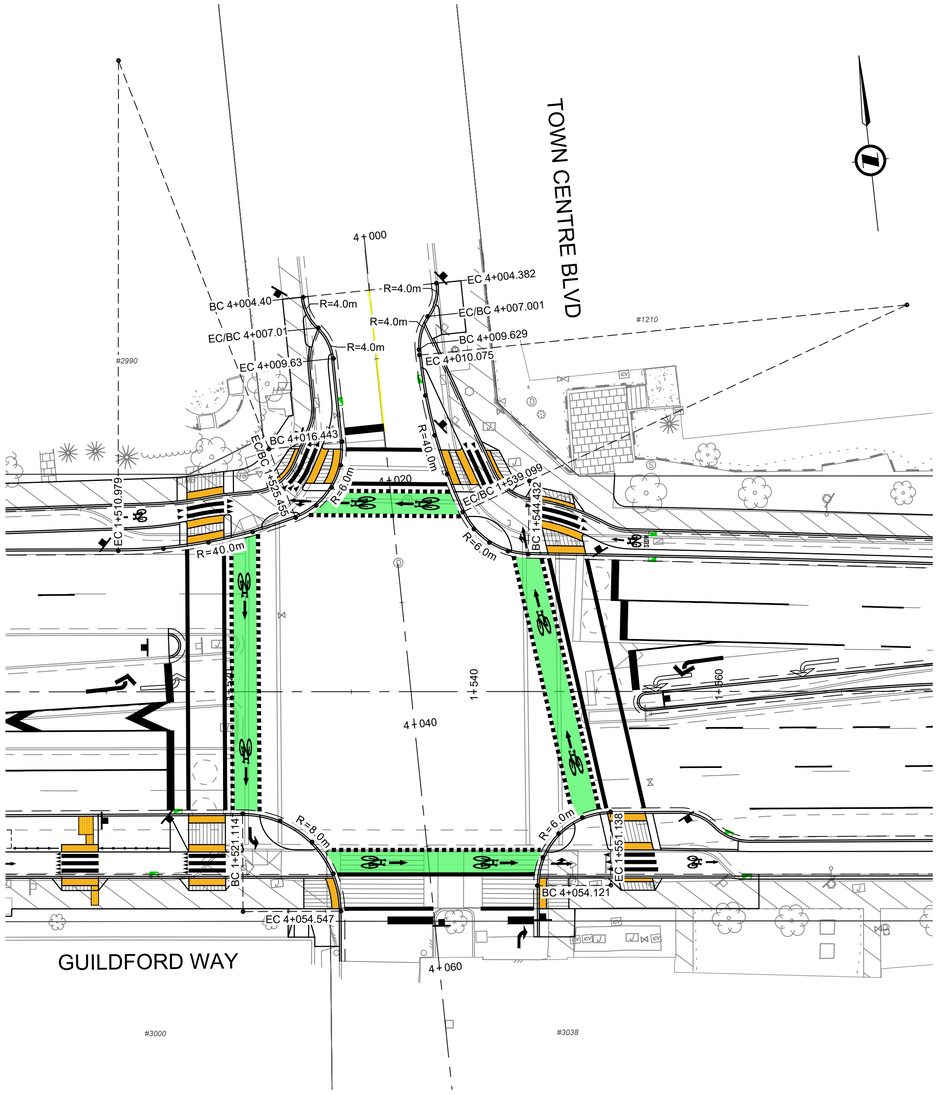
PACIFIC STREET INTERSECTION
GUILDFORD PHASE 2

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

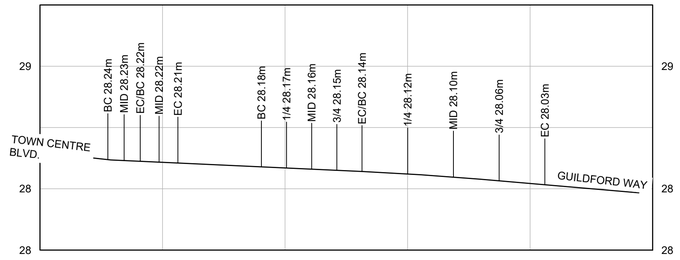
SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 16 OF 22
REV. B

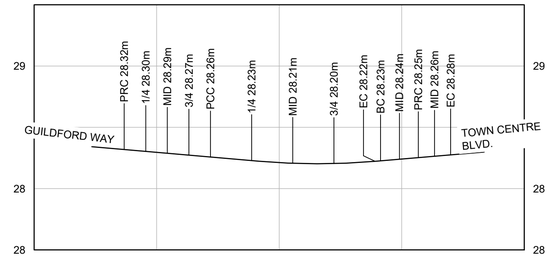
File: g:\Projects\33000\33300\33376_coq_guildford_greenway\02_CADD\20_drafting\202_production\Phase 2\33376_SH_PH2_INTERSECTIONS.dwg



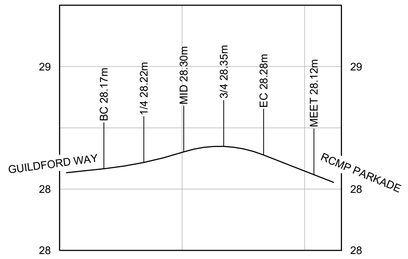
GUILDFORD WAY & TOWN CENTRE BLVD INTERSECTION
PLAN VIEW
SCALE 1:250



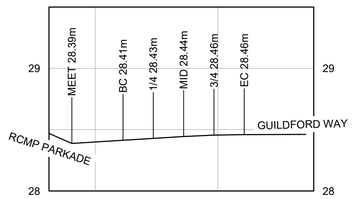
GUILDFORD WAY & TOWN CENTRE BLVD INTERSECTION
NW GUTTERLINE CURB RETURN PROFILE
SCALE 1:250H / 1:25V



GUILDFORD WAY & TOWN CENTRE BLVD INTERSECTION
NE GUTTERLINE CURB RETURN PROFILE
SCALE 1:250H / 1:25V



GUILDFORD WAY & TOWN CENTRE BLVD INTERSECTION
SW GUTTERLINE CURB RETURN PROFILE
SCALE 1:250H / 1:25V



GUILDFORD WAY & TOWN CENTRE BLVD INTERSECTION
SE GUTTERLINE CURB RETURN PROFILE
SCALE 1:250H / 1:25V

1:250 0 5 15m

ISSUED FOR TENDER DESIGN NO. 33376

PLOT DATE: April 19, 2024

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

ROAD WORKS

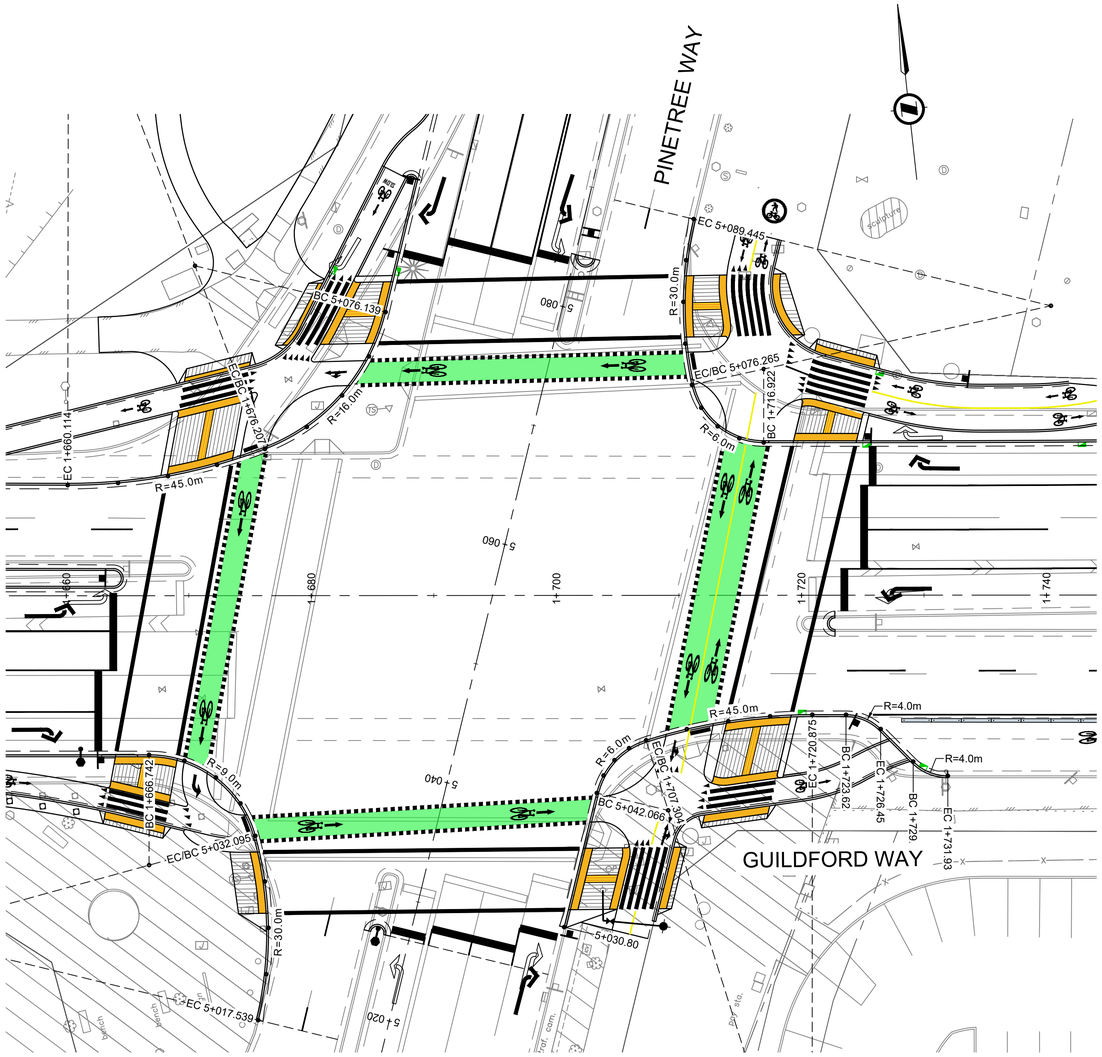
TOWN CENTRE BLVD. INTERSECTION
GUILDFORD PHASE 2

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

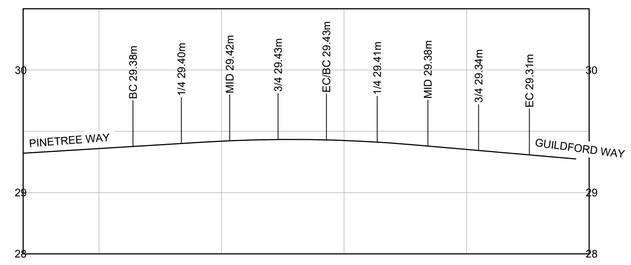
SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 17 OF 22
REV. B

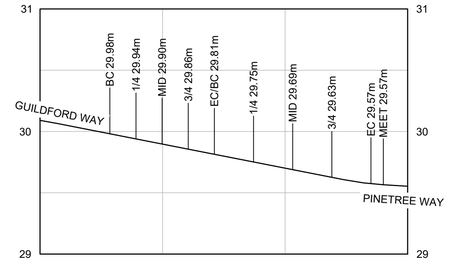
File: g:\Projects\33000\33300\33376_coq_guildford_greenway\02_CADD\20_drafting\202_production\Phase 2\33376_SH_PH2_INTERSECTIONS.dwg



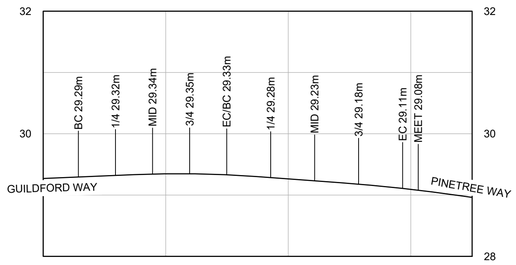
GUILDFORD WAY & PINETREE WAY INTERSECTION
PLAN VIEW
SCALE 1:250



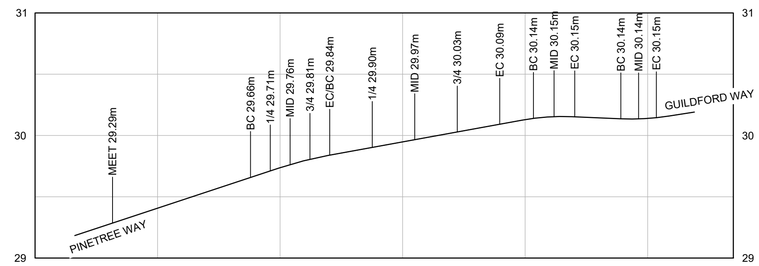
GUILDFORD WAY & PINETREE WAY INTERSECTION
NW GUTTERLINE CURB RETURN PROFILE
SCALE 1:250H / 1:25V



GUILDFORD WAY & PINETREE WAY INTERSECTION
NE GUTTERLINE CURB RETURN PROFILE
SCALE 1:250H / 1:25V



GUILDFORD WAY & PINETREE WAY INTERSECTION
SW GUTTERLINE CURB RETURN PROFILE
SCALE 1:250H / 1:25V



GUILDFORD WAY & PINETREE WAY INTERSECTION
SE GUTTERLINE CURB RETURN PROFILE
SCALE 1:250H / 1:25V

1:250 0 5 15m

PLOT DATE: April 19, 2024

ISSUED FOR TENDER DESIGN NO. 33376

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

ROAD WORKS

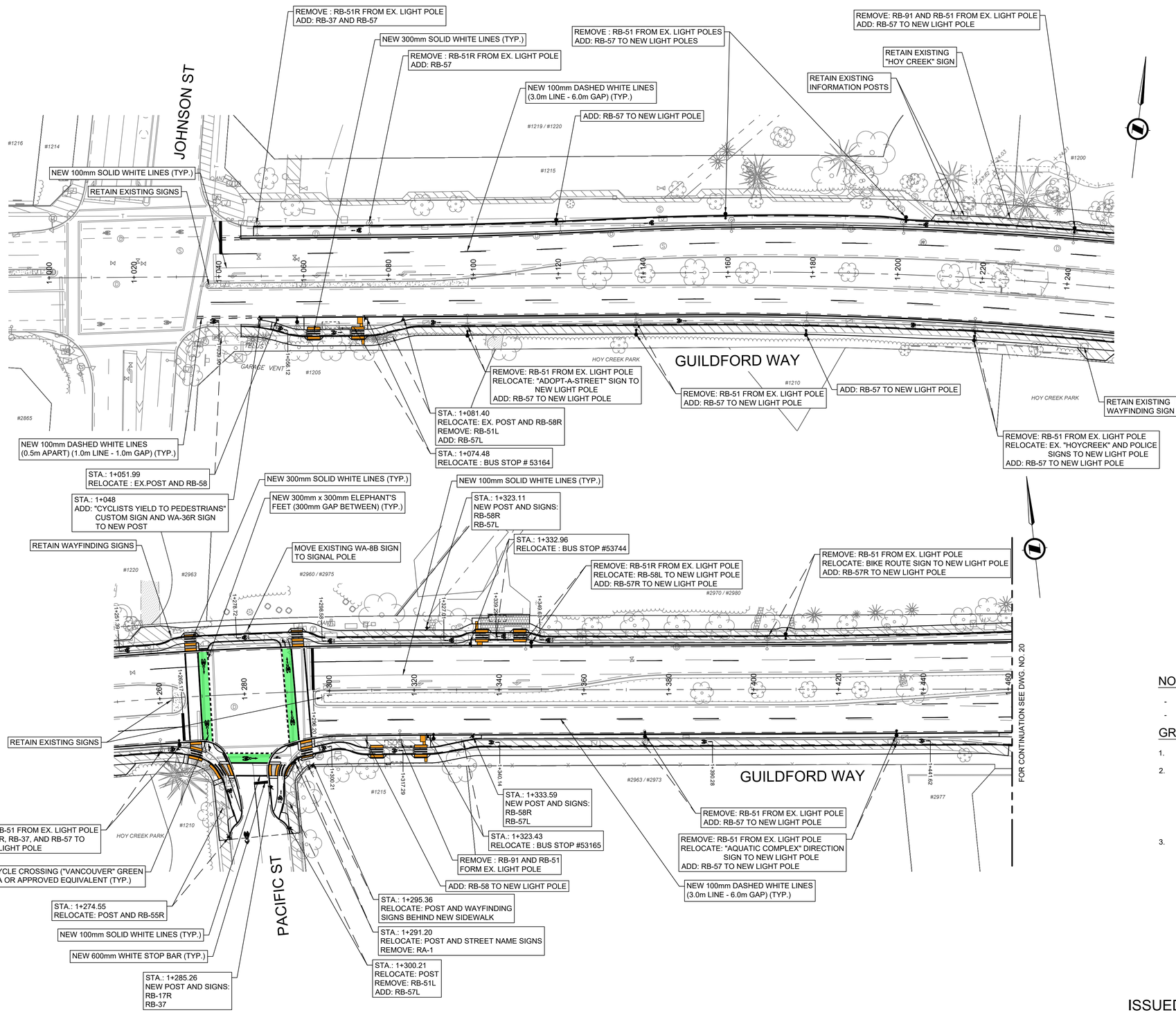
TOWN CENTRE BLVD. INTERSECTION
GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 18 OF 22 REV. B

File: g:\Projects\33000\33300\33376_coq_guildford_greenway\02_CAD\20_drafting\202_production\Phase 2\33376_SH_PH2_INTERSECTIONS.dwg



SIGN TABLE				
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RB-37	3			
RB-55R			1	1
RB-57L	4	2		2
RB-57	13			
RB-57R	1			
RB-58	2			1
RB-58R	2			
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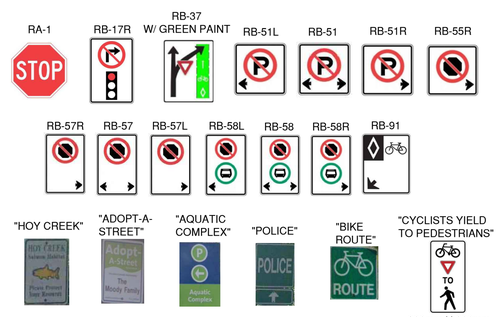


NOTES:

- NEW SIGNAGE POST SLEEVES TO BE IN PLACE PRIOR TO CONCRETE WORKS
- SIGNAGE POST SLEEVES TO BE PLACED AT MIN. 17" OFFSET FROM CURB FACE

GREEN SURFACE TREATMENT:

1. MATERIAL SHALL BE MMA (METHYL METHACRYLATE) OR APPROVED EQUIVALENT.
2. THE MMA SKID RESISTANT MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:
   .1 BE ULTRA-VIOLET STABLE.
   .2 BE ISO CERTIFIED DURABLE ROAD MARKING MATERIAL.
   .3 UTILIZE 0.5mm - 1mm AGGREGATE WITHIN THE MMA TO CREATE SKID RESISTANCE OF 49 BPN.
   .4 "VANCOUVER" GREEN COLOUR (PANTONE #368) TO BE APPROVED PRIOR TO APPLICATION.
   .5 GLASS BEADS TO CONFORM TO AASHTO M247 TYPE 1 (STD. GRADATION) SPECIFICATIONS.
   .6 SAMPLE OF MMA MATERIALS WILL BE REQUIRED.
3. PRODUCT DETAILS AND SPECIFICATIONS TO BE SUBMITTED TO OWNER FOR FINAL APPROVAL.

1:500 0 10 30m

PLOT DATE: April 18, 2024

ISSUED FOR TENDER DESIGN NO. 33376

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	EH	CJB
B	ISSUED FOR TENDER	2024/04/19	EH	CJB

Coquitlam

SIGNAGES & PAVEMENT MARKINGS

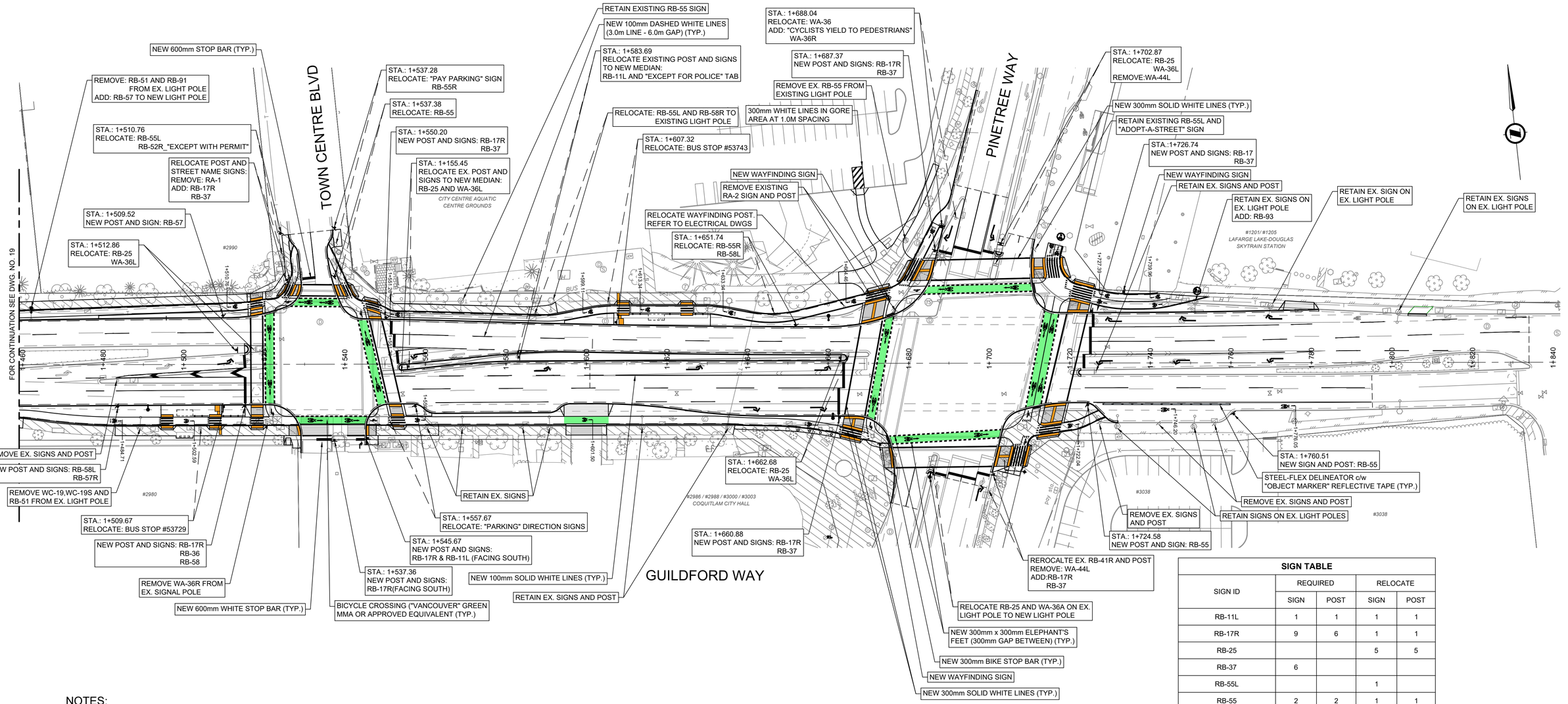
STA 1+000 TO 1+460
GUILDFORD PHASE 2

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

SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 19 OF 22 REV. B

File: g:\Projects\33000\33300\33376_coq_guildford_greenway\02_CADD\20_drafting\202_production\Phase 2\33376_SH_PH2_SIGNAGE.dwg

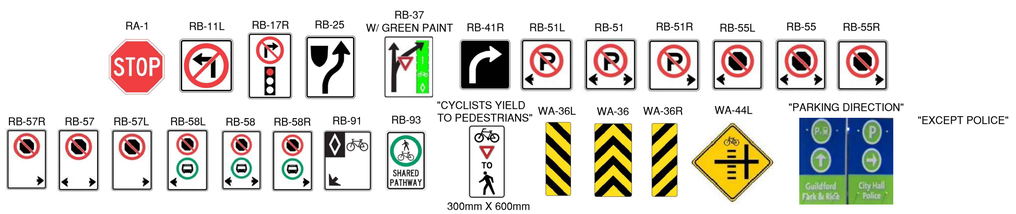


NOTES:

- NEW SIGNAGE POST SLEEVES TO BE IN PLACE PRIOR TO CONCRETE WORKS
- SIGNAGE POST SLEEVES TO BE PLACED AT MIN. 17" OFFSET FROM CURB FACE
- LATERAL AND VERTICAL PLACEMENT OF SIGNS TO BE A S PER TAC GUILDELINS

GREEN SURFACE TREATMENT:

1. MATERIAL SHALL BE MMA (METHYL METHACRYLATE) OR APPROVED EQUIVALENT.
2. THE MMA SKID RESISTANT MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:
   .1 BE ULTRA-VIOLET STABLE.
   .2 BE ISO CERTIFIED DURABLE ROAD MARKING MATERIAL.
   .3 UTILIZE 0.5mm - 1mm AGGREGATE WITHIN THE MMA TO CREATE SKID RESISTANCE OF 49 BPN.
   .4 "VANCOUVER" GREEN COLOUR (PANTONE #368) TO BE APPROVED PRIOR TO APPLICATION.
   .5 GLASS BEADS TO CONFORM TO AASHTO M247 TYPE 1 (STD. GRADATION) SPECIFICATIONS.
   .6 SAMPLE OF MMA MATERIALS WILL BE REQUIRED.
3. PRODUCT DETAILS AND SPECIFICATIONS TO BE SUBMITTED TO OWNER FOR FINAL APPROVAL.



SIGN TABLE

SIGN ID	REQUIRED		RELOCATE	
	SIGN	POST	SIGN	POST
RB-11L	1	1	1	1
RB-17R	9	6	1	1
RB-25			5	5
RB-37	6			
RB-55L			1	
RB-55	2	2	1	1
RB-55R			1	
RB-57	2	1		
RB-57R	1	1		
RB-58L	1			
RB-58	1		1	
RB-58R			1	
RB-93	1			
"CYCLISTS YIELD TO PEDESTRIANS"	1			
WA-36L			4	
WA-36R	1			
WA-44L	ER			
"PARKING DIRECTION"			1	
"EXCEPT POLICE"			1	
BUS STOP #53729			1	
BUS STOP #53743			1	

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ISSUED FOR TENDER DESIGN NO. 33376

PLOT DATE: April 18, 2024

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	PRELIMINARY DESIGN	2024/03/04	EH	CJB
B	ISSUED FOR TENDER	2024/04/19	EH	CJB

Coquitlam

SIGNAGES & PAVEMENT MARKINGS

STA 1+460 TO 1+840
GUILDFORD PHASE 2

ISL
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SCALE	AS SHOWN	CREATION DATE	APR - 2024
DRAWN BY	EH	DESIGN BY	CJB
CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 20 OF 22
REV. B

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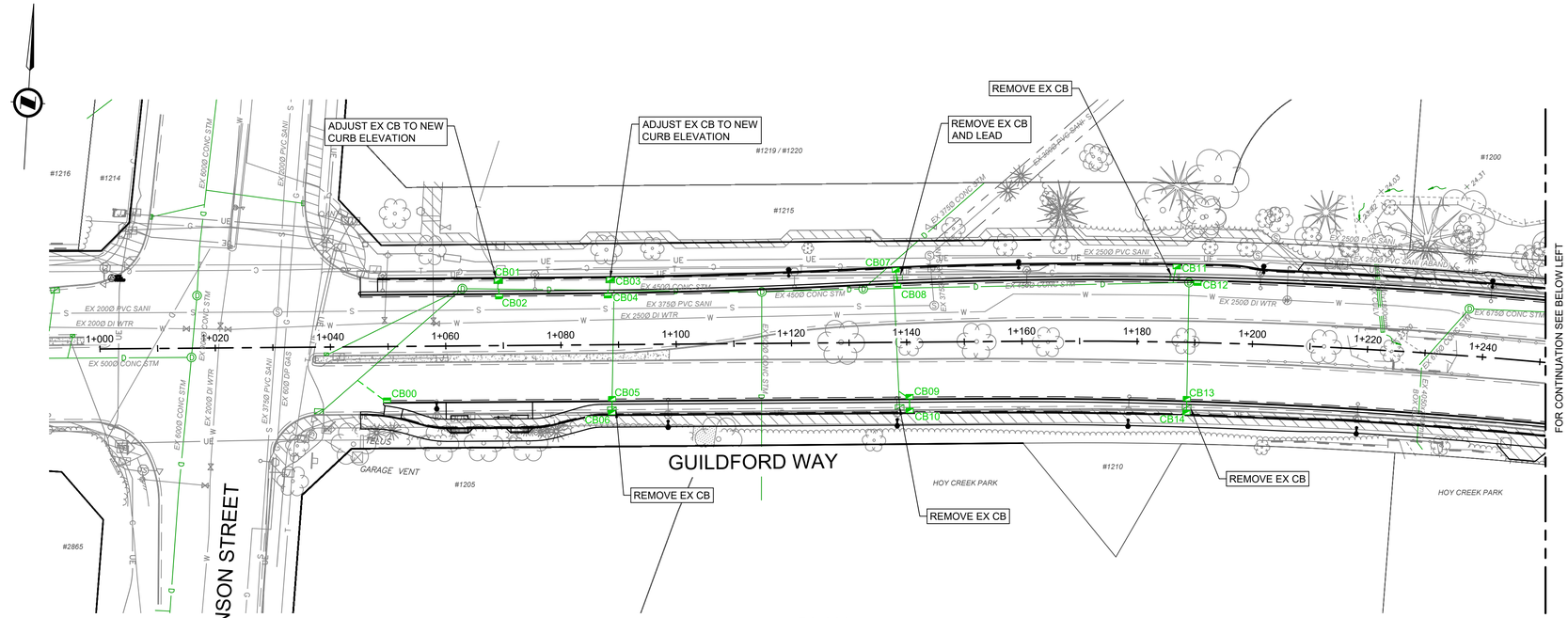

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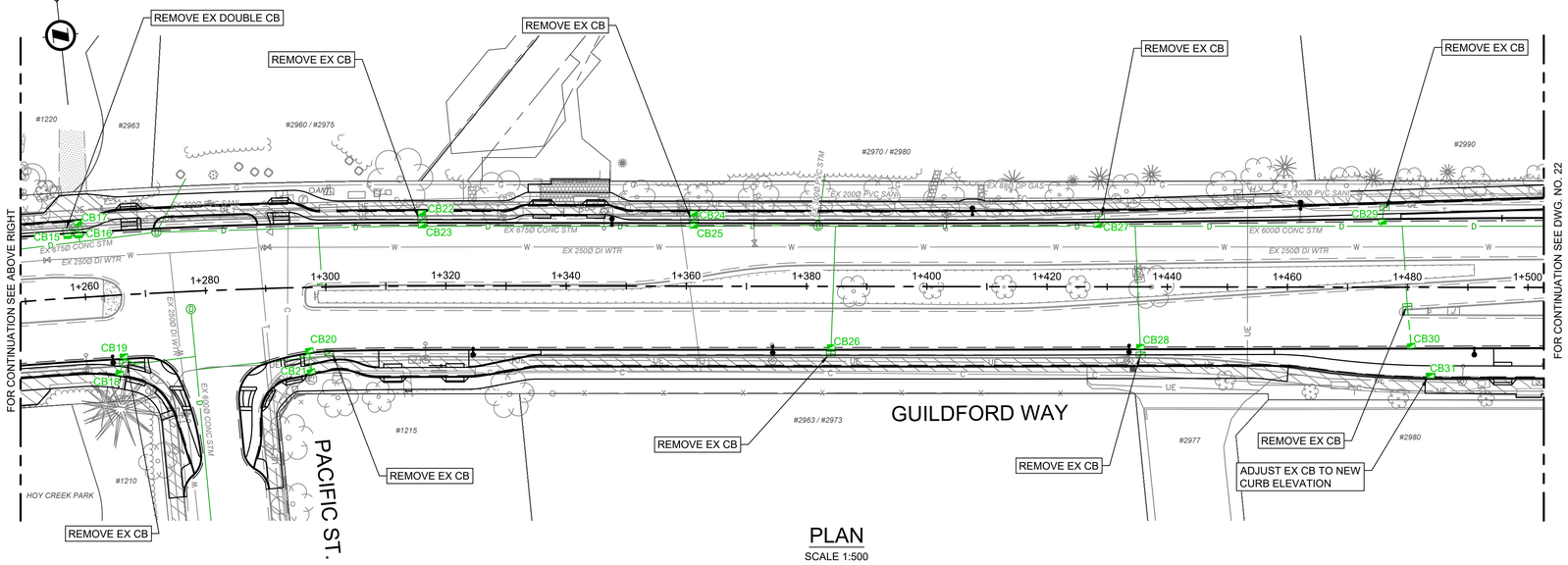

PLAN
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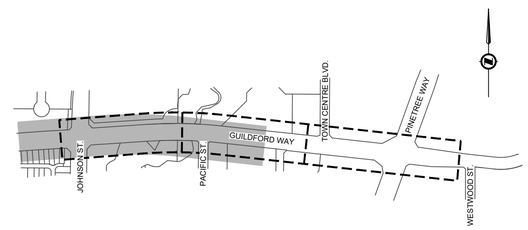
CATCH BASIN AND LAWN BASIN TABLE			
CB No.	RIM EL.	LOCATION	TYPE
CB00	24.587	STA. 1+049.735 O/S 9.676 RT	600mm TOP INLET CB AS PER MMCD S11
CB01	24.621	STA. 1+069.212 O/S -11.674 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB02	24.705	STA. 1+069.332 O/S -8.873 LT	900mm SIDE INLET CB AS PER COQ-S11A
CB03	24.740	STA. 1+088.657 O/S -11.675 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB04	24.836	STA. 1+088.199 O/S -8.872 LT	900mm SIDE INLET CB AS PER COQ-S11A
CB05	24.824	STA. 1+088.792 O/S 9.737 RT	600mm TOP INLET CB AS PER MMCD S11
CB06	24.788	STA. 1+088.755 O/S 12.136 RT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB07	25.190	STA. 1+138.181 O/S -12.928 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB08	25.177	STA. 1+138.435 O/S -10.135 LT	900mm SIDE INLET CB AS PER COQ-S11A
CB09	25.180	STA. 1+140.405 O/S 9.816 RT	600mm TOP INLET CB AS PER MMCD S11
CB10	25.153	STA. 1+140.407 O/S 12.216 RT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB11	25.910	STA. 1+186.609 O/S -13.448 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB12	25.915	STA. 1+190.232 O/S -10.658 LT	900mm SIDE INLET CB AS PER COQ-S11A
CB13	25.823	STA. 1+188.823 O/S 10.167 RT	600mm TOP INLET CB AS PER MMCD S11
CB14	25.808	STA. 1+188.801 O/S 12.567 RT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB15	26.031	STA. 1+257.718 O/S -10.668 LT	900mm SIDE INLET CB AS PER COQ-S11A
CB16	26.028	STA. 1+259.545 O/S -10.664 LT	900mm SIDE INLET CB AS PER COQ-S11A
CB17	26.066	STA. 1+259.540 O/S -12.764 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB18	26.241	STA. 1+264.847 O/S 13.354 RT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB19	26.112	STA. 1+265.808 O/S 10.583 RT	600mm TOP INLET CB AS PER MMCD S11
CB20	26.086	STA. 1+297.074 O/S 10.874 RT	600mm TOP INLET CB AS PER MMCD S11
CB21	26.243	STA. 1+297.335 O/S 14.410 RT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB22	26.495	STA. 1+316.043 O/S -12.520 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB23	26.457	STA. 1+316.078 O/S -10.420 LT	600mm TOP INLET CB AS PER MMCD S11
CB24	26.881	STA. 1+361.227 O/S -12.515 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB25	26.775	STA. 1+361.227 O/S -10.415 LT	600mm TOP INLET CB AS PER MMCD S11
CB26	26.882	STA. 1+384.090 O/S 10.463 RT	600mm TOP INLET CB AS PER MMCD S11
CB27	27.329	STA. 1+428.407 O/S -10.632 LT	600mm TOP INLET CB AS PER MMCD S11
CB28	27.279	STA. 1+435.545 O/S 10.329 RT	600mm TOP INLET CB AS PER MMCD S11
CB29	27.741	STA. 1+475.749 O/S -11.247 LT	600mm TOP INLET CB AS PER MMCD S11
CB30	27.759	STA. 1+480.624 O/S 10.117 RT	600mm TOP INLET CB AS PER MMCD S11
CB31	27.631	STA. 1+483.826 O/S 15.043 RT	EX. TOP INLET CB RIM ELEV. ADJUSTMENT

NOTE:
NEW CATCH BASINS AT BIKE LANE TO BE ACO KLASSIK DRAIN IN-LINE CATCH BASIN (K1-901S) C/W 0.5m CHANNEL (K1-0103S) AND 1.0m MESH STEEL GRATE (TYPE 430D - STAINLESS)



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PLOT DATE: April 18, 2024

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A	PRELIMINARY DESIGN	2024/03/04	GA	CJB
B	ISSUED FOR TENDER	2024/04/19	GA	CJB

Coquitlam

STORM SEWER

STA 1+000 TO 1+500
GUILDFORD PHASE 2

ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
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SCALE	AS SHOWN	CREATION DATE	APR - 2024
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CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 21 OF 22
REV. B

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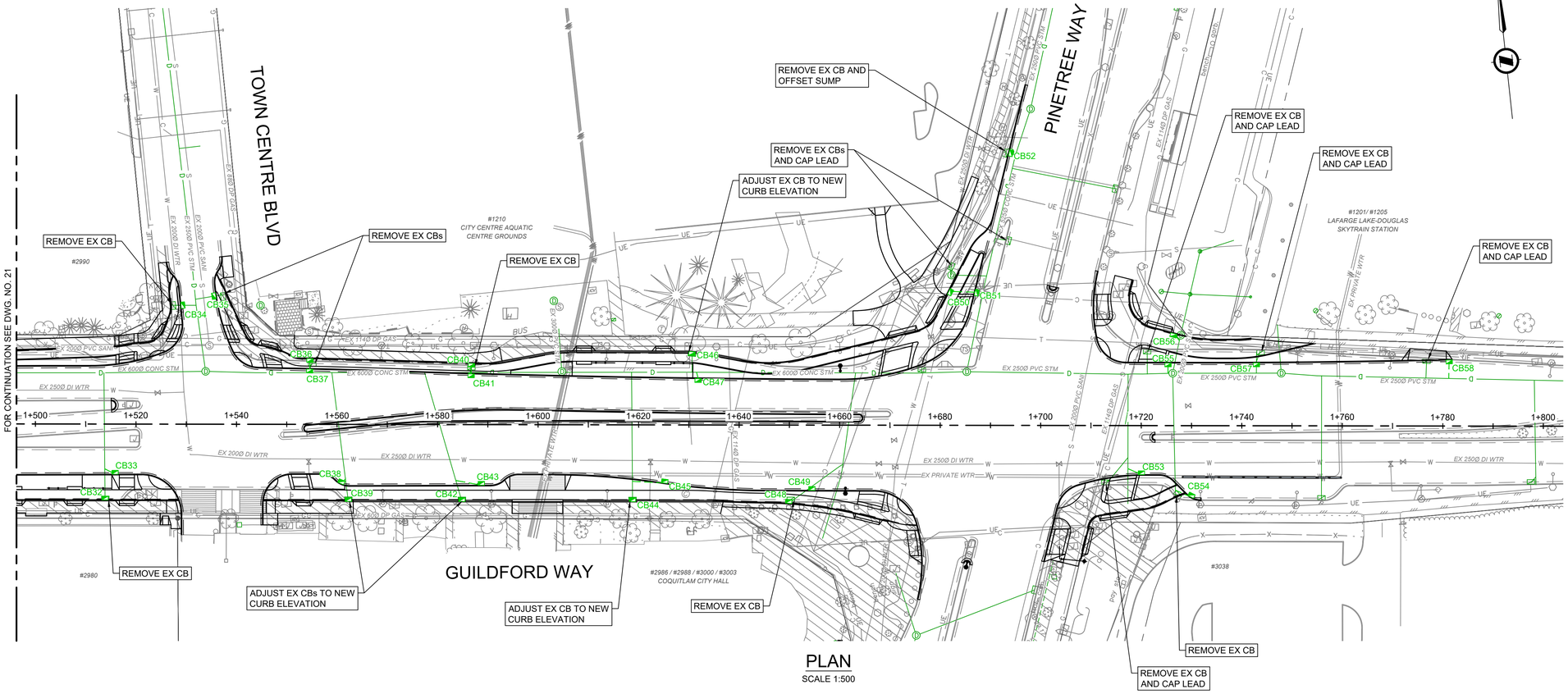

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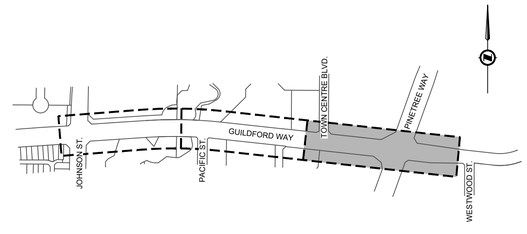
SCALE 1:500

CATCH BASIN AND LAWN BASIN TABLE			
CB No.	RIM EL.	LOCATION	TYPE
CB32	28.034	STA. 1+513.865 O/S 15.080 RT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB33	28.112	STA. 1+515.851 O/S 9.965 RT	600mm TOP INLET CB AS PER MMCD S11
CB34	28.208	STA. 1+528.927 O/S -23.647 LT	600mm TOP INLET CB AS PER MMCD S11
CB35	28.258	STA. 1+535.817 O/S -25.535 LT	600mm TOP INLET CB AS PER MMCD S11
CB36	28.428	STA. 1+554.603 O/S -13.083 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB37	28.416	STA. 1+554.555 O/S -10.983 LT	600mm TOP INLET CB AS PER MMCD S11
CB38	28.431	STA. 1+560.734 O/S 11.747 RT	600mm TOP INLET CB AS PER MMCD S11
CB39	28.347	STA. 1+562.268 O/S 15.322 RT	EX. TOP INLET CB RIM ELEV. ADJUSTMENT
CB40	28.654	STA. 1+586.737 O/S -12.180 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB41	28.651	STA. 1+586.681 O/S -10.081 LT	600mm TOP INLET CB AS PER MMCD S11
CB42	28.521	STA. 1+584.863 O/S 15.304 RT	EX. TOP INLET CB RIM ELEV. ADJUSTMENT
CB43	28.650	STA. 1+588.721 O/S 12.052 RT	600mm TOP INLET CB AS PER MMCD S11
CB44	28.817	STA. 1+618.820 O/S 15.276 RT	EX. TOP INLET CB RIM ELEV. ADJUSTMENT
CB45	28.961	STA. 1+625.161 O/S 11.558 RT	600mm TOP INLET CB AS PER MMCD S11
CB46	28.959	STA. 1+630.619 O/S -14.560 LT	EX. TOP INLET CB RIM ELEV. ADJUSTMENT
CB47	29.074	STA. 1+631.834 O/S -9.216 LT	600mm TOP INLET CB AS PER MMCD S11
CB48	29.124	STA. 1+649.853 O/S 15.555 RT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB49	29.150	STA. 1+654.491 O/S 12.975 RT	600mm TOP INLET CB AS PER MMCD S11
CB50	29.257	STA. 1+681.687 O/S -26.843 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB51	29.359	STA. 1+686.883 O/S -26.487 LT	600mm TOP INLET CB AS PER MMCD S11
CB52	29.451	STA. 1+693.642 O/S -54.251 LT	600mm TOP INLET CB AS PER MMCD S11
CB53	30.097	STA. 1+720.047 O/S 9.752 RT	600mm TOP INLET CB AS PER MMCD S11
CB54	30.137	STA. 1+729.846 O/S 14.162 RT	600mm TOP INLET CB AS PER MMCD S11
CB55	30.114	STA. 1+725.323 O/S -12.450 LT	600mm TOP INLET CB AS PER MMCD S11
CB56	30.139	STA. 1+726.459 O/S -18.308 LT	ACO KLASSIK DRAIN K901S IN-LINE CATCH BASIN
CB57	30.305	STA. 1+742.902 O/S -12.493 LT	600mm TOP INLET CB AS PER MMCD S11
CB58	30.692	STA. 1+781.241 O/S -13.124 LT	600mm TOP INLET CB AS PER MMCD S11

NOTE:
NEW CATCH BASINS AT BIKE LANE TO BE ACO KLASSIK DRAIN IN-LINE CATCH BASIN (K1-901S) C/W 0.5m CHANNEL (K1-0103S) AND 1.0m MESH STEEL GRATE (TYPE 430D - STAINLESS)



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Coquitlam

STORM SEWER

STA 1+500 TO 1+800
GUILDFORD PHASE 2

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

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CHECKED BY	CJB	APPROVED BY	CJB

DWG. NO. 22 OF 22
REV. B

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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) BENEATH 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 DBII).
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, QUATTRO, 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 COMPRISE 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 ROTRUNDA OR 3M SELF HOLDING TAPE; COVERED WITH PVC TAPE AND DIPPED IN 3M SCOTCHCOAT. OR PRE–APPROVED EQUIVALENT.
32. FUSE HOLDERS IN HAND HOLE 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. ALL JUNCTION BOXES SHALL BE 2 SECTIONS DEEP. 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

47. STREET LIGHT BASE FLANGES SHALL BE LEVEL ON TWO HORIZONTAL AXIS.
48. 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 BC 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 POLEDICA.
52. JUNCTION BOXES (IF USED), TOPS SHALL BE LEVEL ON 2 AXIS.

CONCRETE BASE NOTES

1. THE CONCRETE BASES SHALL BE PER MMCD2009 STANDARDS AND PLANS. PROVIDED WITH APPROPRIATE CONDUITS PER ENGINEERING REQUIREMENTS.
2. THE CONCRETE BASE SHALL NOT BE FORMED ONSITE, AND SHALL NOT BE FORMED BY THE ELECTRICAL CONTRACTOR. THE CONCRETE BASE SHALL BE PROVIDED FROM A PRECAST COMPANY, SUCH AS AE PRECAST, ARMTEC, 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 ROUND 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 2009 MAY APPLY.
2. UNLESS OTHERWISE INDICATED, THE SERVICE BASE AND ACCESS COVERS ARE TO BE GALVANIZED, PRIMED AND POWDER–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 DOWNSTREAM OF TRAFFIC.
4. THE SERVICE BASE SHALL BE MOUNTED ON A PREFORMED CONCRETE BASE:
   a. THE CONCRETE BASE SHALL NOT BE FORMED ONSITE 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, ARMTEC, 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 BULLDOG 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 TO 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 WIRING. GROUPING SHALL BE DONE WITH ELECTRICIANS TAPE.
16. GAPS OR OPENINGS BETWEEN THE STREET LIGHT POLE BASE FLANGES, THE OPENINGS FOR THE NUTS AND BOLTS, TO THE TOP OF THE SERVICE BASE, SHALL BE SEALED WITH RTV SEALANT.
17. HYDRO SERVICE (DIP) CONNECTIONS SHALL BE PER BC HYDRO STANDARDS OR PER MMCD (CURRENT EDITION). NOTE: HYDRO DIP SERVICES SHALL USE A 3–METER STEEL GUARD OVER RPVC CONDUITS, LAG BOLTED TO THE WOOD POLE. THE USE OF RIGID CONDUIT AND/OR RPVC TO RIGID CONDUIT FITTINGS IS NOT PERMITTED.
18. THE ELECTRICAL CONTRACTOR SHALL PRE–TEST THE OPERATION OF THE ELECTRICAL PANEL WITHIN THE SERVICE BASE. THIS INCLUDES TESTING THE O–H–A/H–O–A SWITCH AND PEC FOR DAYTIME / NIGHTTIME SIMULATION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN EMAIL TO TRAFFIC OPERATIONS STAFF TO ADVISE THE SERVICE BASE HAS BEEN DULY TESTED AND READY FOR CONNECTION.
19. THE EARTHING ELECTRODE SHALL BE SUPPLIED (TYPICALLY A PLATE) AND INSTALLED PER MMCD DRAWING E7.10:
   a. THE PLATE SHOULD BE IN NATURAL SOIL, NO ROCKS, NO SAND
   b. WIRED WITH A BARE #6 EARTHING CONDUCTOR. FROM THE ELECTRICAL PANEL PROTECTED AREA, TO THE PLATE ELECTRODE TAB, WITH AN ILSCO #BGC–1DB CLAMP, SUITABLE FOR DIRECT BURIAL IN EARTH.
   c. THE PLATE MINIMUM DEPTH OF 900mm BELOW GRADE AND 200mm FROM CONCRETE BASE(S).
   d. ELECTRICAL / CIVIL CONTRACTOR TO PROVIDE PICTURES SHOWING DIMENSIONS PER MMCD DRAWING E7.10. PICTURES TO BE SUPPLIED OR EMAILED TO CITY OF COQUITLAM CIVIL INSPECTORS, AND/OR TO TRAFFIC OPERATIONS SECTION STAFF.

LUMINAIRE FIXTURE NOTES

CITY OF COQUITLAM USES MULTIPLE LED LUMINAIRE STYLES. SOME LUMINAIRE INFORMATION IS BELOW.

1. LUMINAIRE FIXTURES SHALL BEAR ELECTRICALLY APPROVED LABELS FOR USE IN CANADA. SUCH AS CSA, CEC, ULC, SPECIAL INSPECTIONS, ETC.
2. UNLESS OTHERWISE NOTED, LOCAL/RESIDENTIAL STREETS SHALL BE LED 3000–DEGREES KELVIN, AND 4000–DEGREES KELVIN FOR ALL OTHERS.
3. LUMINAIRES SHALL BE LED AND AS PER THE DESIGN DRAWINGS.
4. MULTI–USE PATHWAY (MUP), SIDEWALKS AND WALKWAY LIGHTING SHALL BE LED, 4000–DEGREES KELVIN, PER CITY OF COQUITLAM APPROVED PRODUCTS LIST. LED WATTAGES, POLE STYLE AND HEIGHT, POLE COLOUR AND CONCRETE BASE PER DESIGN PLANS.
5. PHOTO ELECTRIC CONTROL (PEC) SHALL ONLY BE SOLID–STATE DESIGN, WITH ELECTROMECHANICAL CONTACTS.
6. THE PEC SOCKET SHALL BE PROVIDED WITH 7–CONTACTS (FUTURE SMART LIGHTING PROVISIONS). EACH LUMINAIRE SHALL BE PROVIDED WITH A 3–PIN TWIST LOCK SHORTING CAP (EXCEPT WHERE A PEC IS REQUIRED).
7. PEC CONDUCTORS SHALL BE #12 RW90. COLOURS: RED, BLACK AND WHITE. THE PEC CONDUCTORS SHALL BE A CONTINUOUS RUN, WITHOUT SPLICES, TO THE ELECTRICAL PANEL. BUNDLED SEPARATE FROM THE LUMINAIRE CONDUCTORS.
8. A NOTE SHALL BE PROVIDED TO INDICATE: PEC AIMED IN A NORTHERN DIRECTION.
9. LED LUMINAIRE FIXTURES SHALL BE PROVIDED WITH AN LED WATTAGE/LUMEN LABEL (BLACK LETTERING ON WHITE BACKGROUND). LABEL SHALL BE VISIBLE FROM THE GROUND.

LEGEND

Symbol	Description
	PROPOSED DAVIT STREETLIGHT POLE 9.0m C/W PEDESTRIAN LUMINAIRE. (SEE ELEVATION ON SHEET 3)
	PROPOSED DAVIT STREETLIGHT POLE 9.0m (SEE ELEVATION ON SHEET 3)
	PROPOSED PATHWAY POLE. (SEE ELEVATION ON SHEET 3)
	EXISTING DAVIT STREETLIGHT POLE
3	PROPOSED POLYMER JUNCTION BOX (11" x 18" x 18", OPEN BOTTOM) 1 SECTION DEEP C/W LID LABELED 'ELEC' AND STAINLESS STEEL PENTA BOLT. UNLESS OTHERWISE NOTED.
C	EXISTING COMMUNICATIONS JUNCTION BOX
R	LUMINAIRE ON RED PHASE CONDUCTOR
B	LUMINAIRE ON BLACK PHASE CONDUCTOR
UE	PROPOSED 3 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 53mm RPVC
UE	PROPOSED 2 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 53mm RPVC
UE	PROPOSED 1–53mm RPVC CONDUIT ONLY
	PROPOSED RPVC STUB OUT FOR FUTURE EXTENSION (CAP & MARK LOCATION)
UE	EXISTING 3 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 35mm RPVC
UE	EXISTING 2 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 35mm RPVC
	EXISTING COMMUNICATIONS CONDUIT
	EXISTING BC HYDRO POLE

NOT FOR CONSTRUCTION
2024-04-19

BC 1 CALL CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR #6886 Vancouver Area 257-1940 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 & 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. 8121-24-01 of XX

No.	Date	By	Revisions
.	19-04-2024	BG	ISSUED FOR TENDER
.	22-03-2024	BG	PRELIMINARY SUBMISSION

ACCEPTED FOR CONSTRUCTION
Date:
Manager of Development Servicing

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

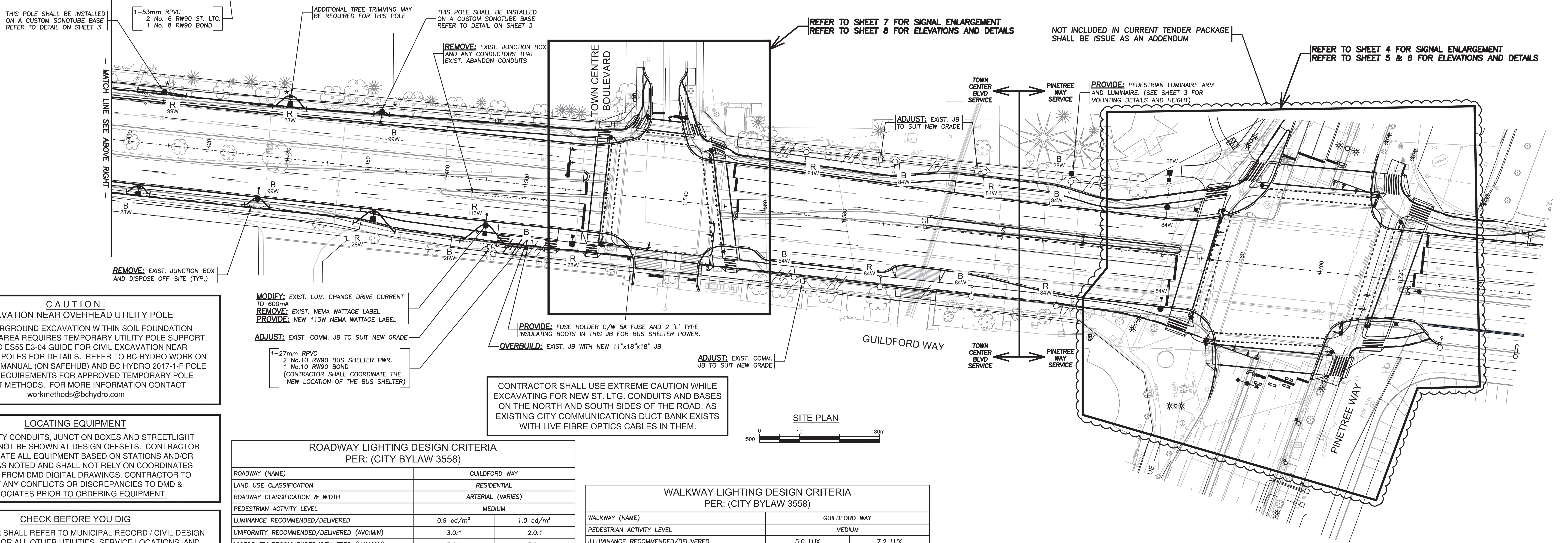
PERMIT TO PRACTICE
Signature:
Date: 19-04-2024
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal: PROFESSIONAL PROVINCE OF BRITISH COLUMBIA N. W. BRIGHT # 3?71? ENGINEER 2024-04-19

Design by BG	Date 27-02-2024	Scale -	
Drawn by YJ	Date 27-02-2024	Sheet of 1 OF 10	
Checked by BK	Date 27-02-2024	Eng. Project No. .	
Approved by .	Date 27-02-2024		

Project: GUILDFORD WAY - WEST OF JOHNSON STREET TO PINETREE WAY
Description: STREET LIGHTING
File: 8121-24

Plot Date: April 19, 2024



CAUTION!

EXCAVATION NEAR OVERHEAD UTILITY POLE

ANY UNDERGROUND EXCAVATION WITHIN SOIL FOUNDATION INTERACTION AREA REQUIRES TEMPORARY UTILITY POLE SUPPORT. REFER TO ES55 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.

ROADWAY LIGHTING DESIGN CRITERIA
PER: (CITY BYLAW 3558)

ROADWAY (NAME)	GUILDFORD WAY			
LAND USE CLASSIFICATION	RESIDENTIAL			
ROADWAY CLASSIFICATION & WIDTH	ARTERIAL (VARIES)			
PEDESTRIAN ACTIVITY LEVEL	MEDIUM			
LUMINANCE RECOMMENDED/DELIVERED	0.9 cd/m²		1.0 cd/m²	
UNIFORMITY RECOMMENDED/DELIVERED (AVG:MIN)	3.0:1		2.0:1	
UNIFORMITY RECOMMENDED/DELIVERED (MAX:MIN)	5.0:1		3.2:1	
LV RATIO RECOMMENDED/ DELIVERED (VLMAX:AVG)	0.3:1		0.2:1	
LIGHT LOSS FACTOR	0.84			
SPACING	AS SHOWN			
EQUIPMENT				
FIXTURE TYPE: LED	WATTAGE: 84W	MTG. HEIGHT: 9m	DIST TYPE: 2ES	
IES FILE:	NXT-60M-450mA-2ES-4000K	MODEL: NXT-60M-SERIES		
FIXTURE TYPE: LED	WATTAGE: 99W	MTG. HEIGHT: 9m	DIST TYPE: 2ES	
IES FILE:	NXT-60M-525mA-2ES-4000K	MODEL: NXT-60M-SERIES		

* BASED ON THE WORST CASE SCENARIO
** BASE ON A 20-YEAR FIXTURE LIFE AND 10-YEAR CLEANING CYCLE

WALKWAY LIGHTING DESIGN CRITERIA
PER: (CITY BYLAW 3558)

WALKWAY (NAME)	GUILDFORD WAY			
PEDESTRIAN ACTIVITY LEVEL	MEDIUM			
ILLUMINANCE RECOMMENDED/DELIVERED	5.0 LUX		7.2 LUX	
UNIFORMITY RECOMMENDED/DELIVERED	5.0:1		1.9:1	
LIGHT LOSS FACTOR	0.84			
SPACING (SINGLE SIDED)	AS SHOWN			
EQUIPMENT				
FIXTURE TYPE: LED	WATTAGE: 28W	MTG. HEIGHT: 5m	DIST TYPE: 2ES	
IES FILE:	NXT-24S-350mA-2ES-4000K	MODEL: NXT-24S- SERIES		
FIXTURE TYPE: LED	WATTAGE: 99W	MTG. HEIGHT: 9m	DIST TYPE: 2ES	
IES FILE:	NXT-60M-525mA-2ES-4000K	MODEL: NXT-60M-SERIES		

* STREET LIGHTS INCLUDED IN CALCULATION
** BASE ON A 20-YEAR FIXTURE LIFE AND 10-YEAR CLEANING CYCLE

— — UE —|— — — — UE —

THE SYMBOL ABOVE INDICATES INTERCEPTING THE EXISTING CONDUIT WITH A NEW CONDUIT. IT IS THE DESIGN INTENT TO RE-USE ALL EXISTING STREET LIGHTING CONDUIT WHERE EVER POSSIBLE. UNLESS OTHERWISE SHOWN.

NOT FOR CONSTRUCTION
2024-04-19

BC 1 CALL — CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR #6886 Vancouver Area 257-1940
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.
#12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589-9010
office@dmdeng.com Fax 604/589-9012
DMD PROJECT No. 8121-24-02 of XX

No.	Date	By	Revisions
.	19-04-2024	BG	ISSUED FOR TENDER
.	22-03-2024	BG	PRELIMINARY SUBMISSION

ACCEPTED FOR CONSTRUCTION
Date:
Manager of Development Servicing

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

PERMIT TO PRACTICE
Signature:
Date: 19-04-2024
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal: 2024-04-19

Design by BG	Date 27-02-2024	Scale 1:500	
Drawn by YJ	Date 27-02-2024	Sheet of 2 OF 10	
Checked by BK	Date 27-02-2024	Eng. Project No.	
Approved by .	Date 27-02-2024		

Project: GUILDFORD WAY - WEST OF JOHNSON STREET TO PINETREE WAY
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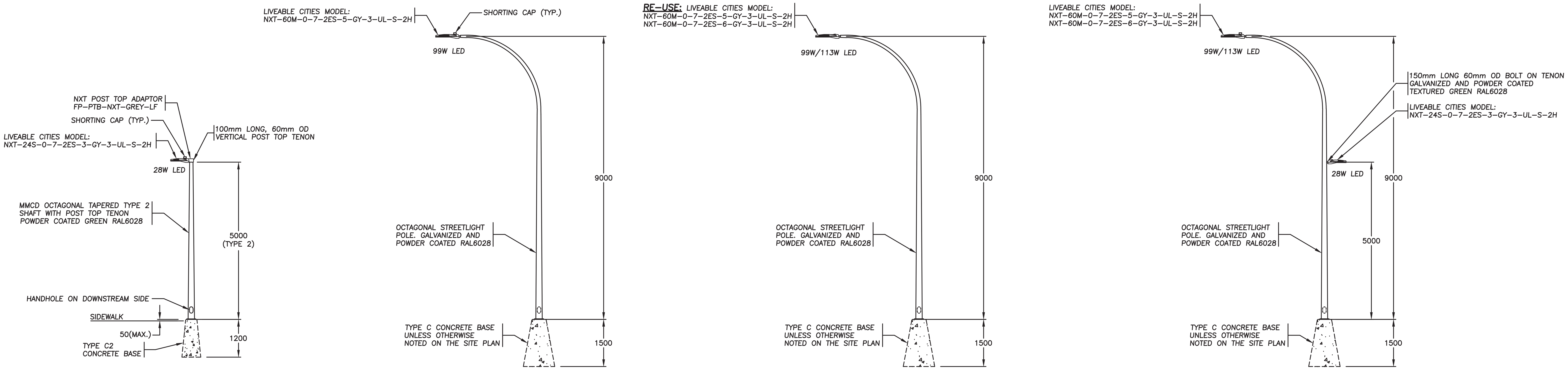


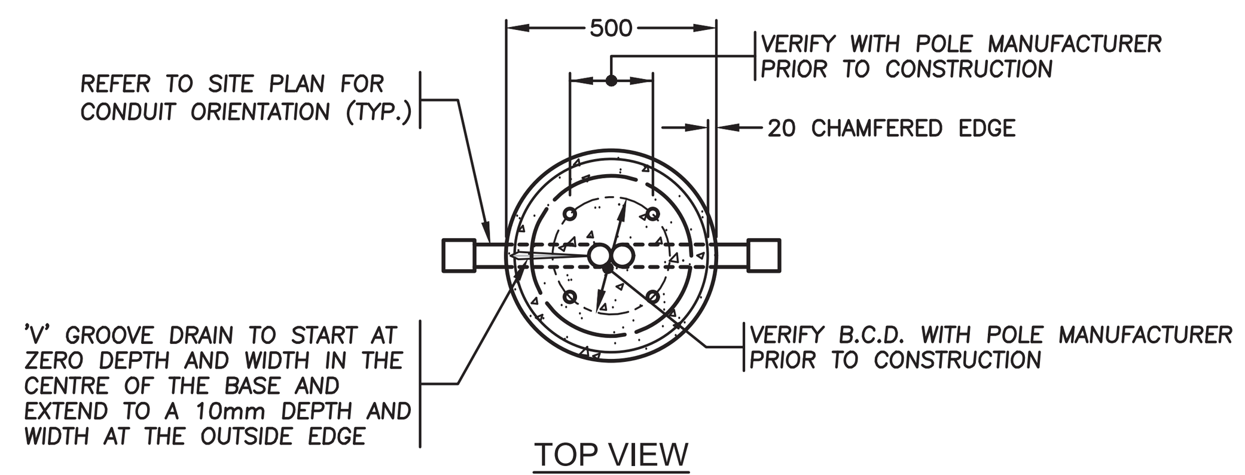
PROPOSED PATHWAY POLE

PROPOSED 9.0m STREETLIGHT POLE
(BETWEEN JOHNSON ST. TO PACIFIC ST.)

PROPOSED 9.0m STREETLIGHT POLE
(BETWEEN PACIFIC ST. TO TOWN CENTRE BLVD.)

PROPOSED 9.0m STREETLIGHT POLE
C/W PEDESTRIAN LUMINAIRE

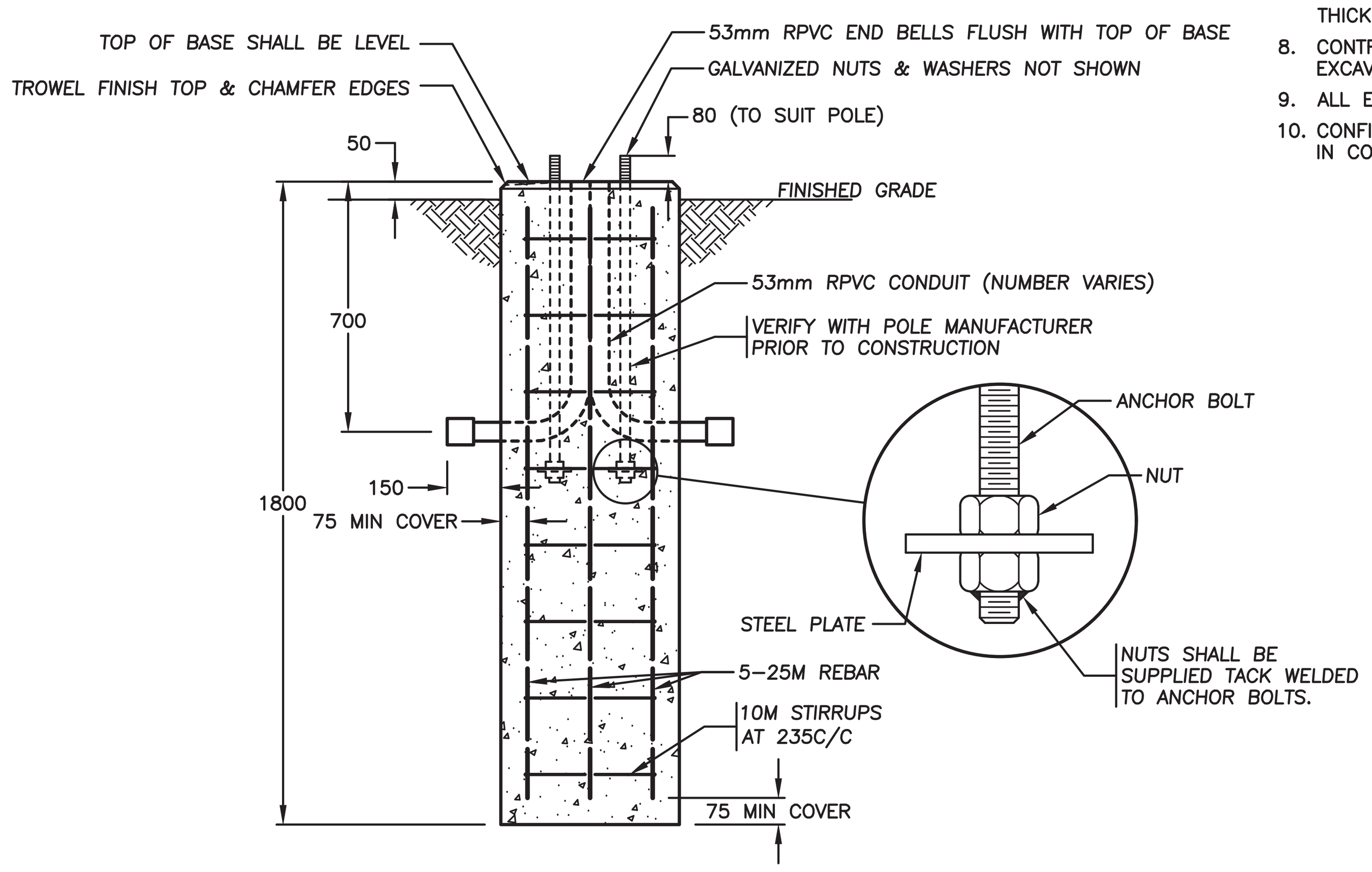
ELEVATIONS
0 1:75 5



TOP VIEW

SONOTUBE FOUNDATION NOTES:

1. ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH CAN/CSA G14-M92
2. APPLY LUBRIPLATE OR OTHER SUITABLE GREASE TO EXPOSED PORTION OF ANCHOR BOLTS AND NUTS PRIOR TO POLE INSTALLATION
3. CONCRETE TO HAVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.
4. FOOTINGS ARE DESIGNED FOR SOILS WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 125kPa.
5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
6. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MINISTRY STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2012 ISSUE) UNLESS OTHERWISE NOTED ON THESE DRAWINGS OR IN THE SPECIAL PROVISIONS.
7. BACKFILL SHALL BE S.G.S.B. IN ACCORDANCE WITH SECTION 202 OF BC MoTI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NO MORE THAN 150mm THICK TO 100% STANDARD PROCTOR MAXIMUM DENSITY (ASTM D-698).
8. CONTRACTOR SHALL PROVIDE ALL MEANS NECESSARY TO ENSURE THAT EXCAVATIONS SHALL REMAIN DRY DURING CONSTRUCTION.
9. ALL EXPOSED EDGES SHALL BE CHAMFERED 20 x 20 U.N.O.
10. CONFIRM ANCHOR BOLTS AND THEIR PLAN ORIENTATION PRIOR TO SETTING IN CONCRETE FORMS.



ELEVATION

SONOTUBE CONCRETE BASE DETAIL
N.T.S.

NOT FOR CONSTRUCTION
2024-04-19

BC 1 CALL — CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR #6886 Vancouver Area 257-1940
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
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#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. 8121-24-03 of XX

No.	Date	By	Revisions
.	19-04-2024	BG	ISSUED FOR TENDER
.	22-03-2024	BG	PRELIMINARY SUBMISSION

ACCEPTED FOR CONSTRUCTION
Date:__________
Manager of Development Servicing

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

PERMIT TO PRACTICE
Signature:__________
Date: 19-04-2024
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal:
2024-04-19

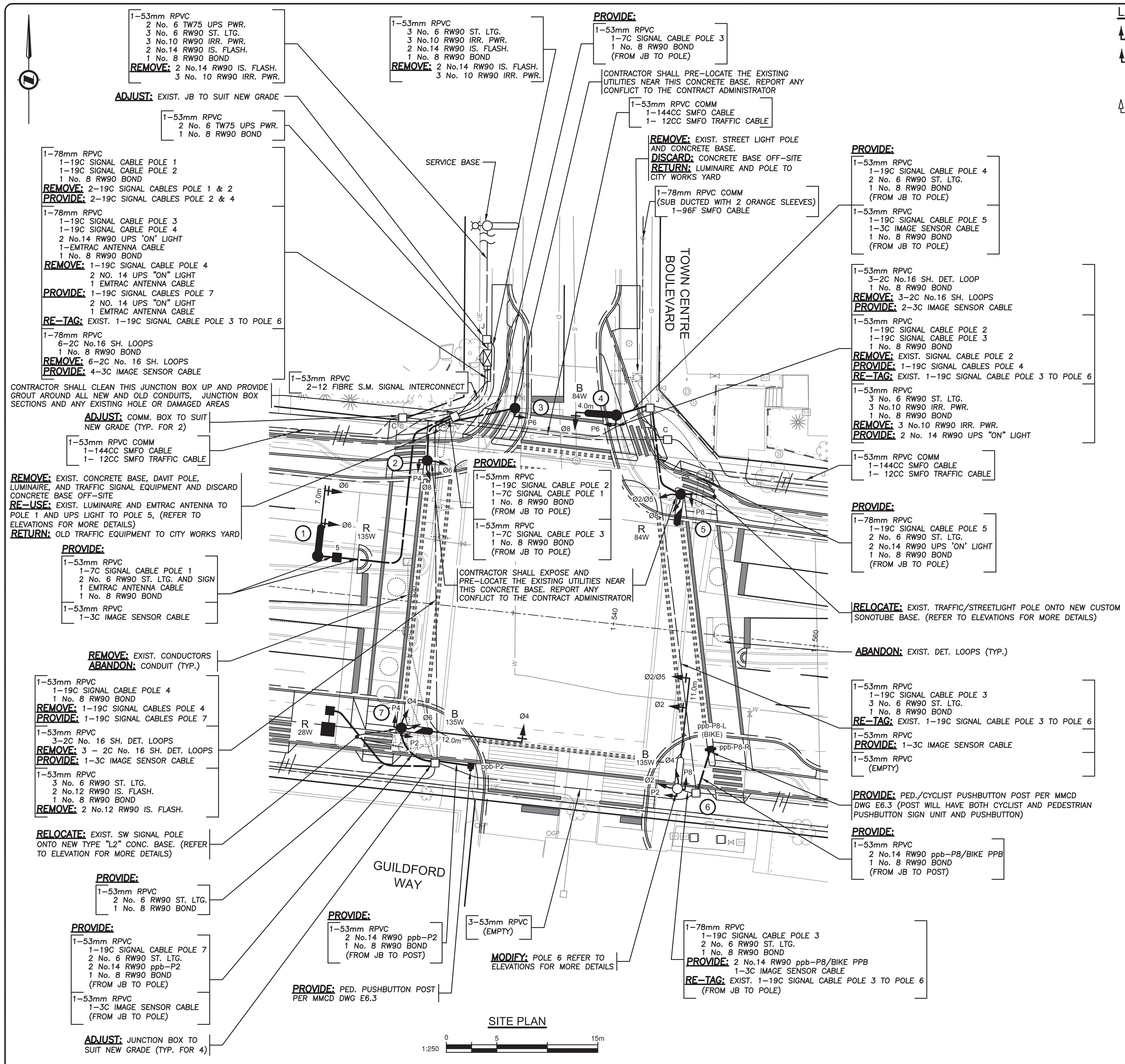
Design by	Date	Scale
BG	27-02-2024	1:75
Drawn by	Date	Sheet of
YJ	27-02-2024	3 OF 10
Checked by	Date	Eng. Project No.
BK	27-02-2024	.
Approved by	Date	
.	27-02-2024	

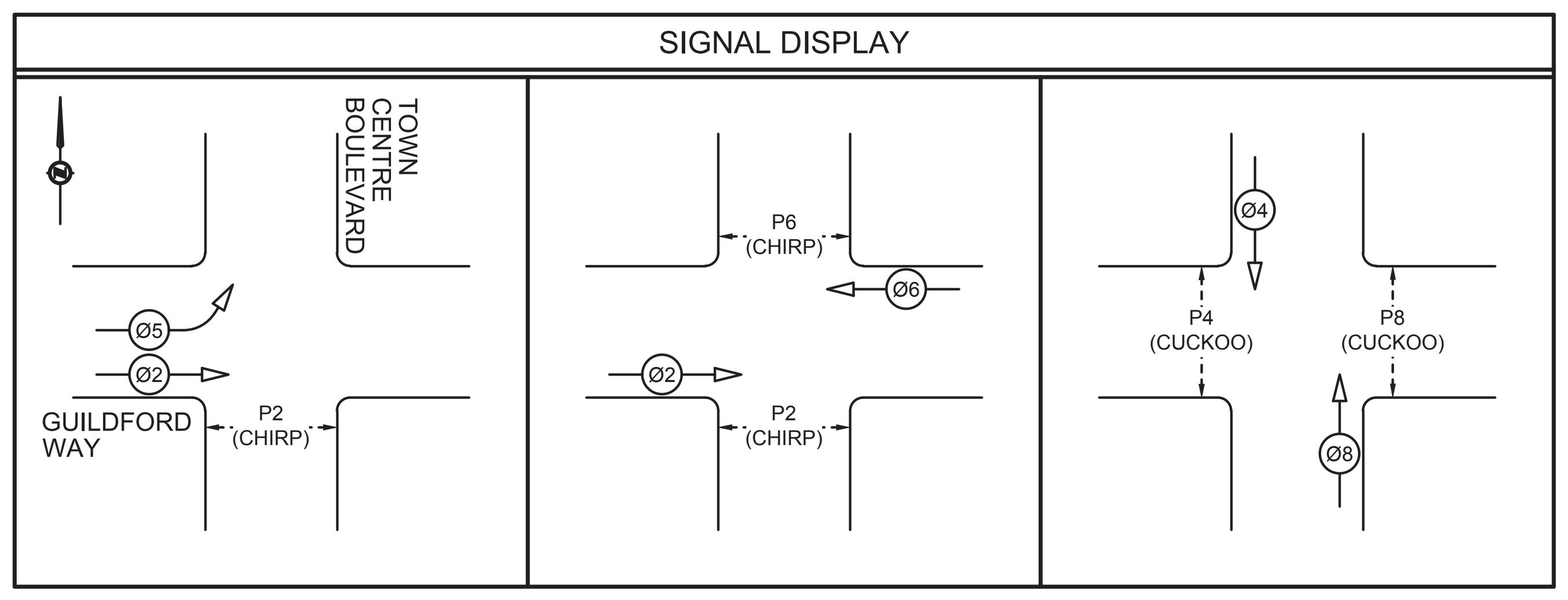
Project
GUILDFORD WAY - WEST OF JOHNSON STREET TO PINETREE WAY

Description
STREET LIGHTING

File: 8121-24

Plot Date: April 19, 2024





LEGEND

	PROPOSED COMBINATION SIGNAL POLE
	PROPOSED COMBINATION TRAFFIC/STREET LIGHTING POLE
	PROPOSED TRAFFIC SIGNAL POST
	EXISTING TRAFFIC SIGNAL POLE
	PROPOSED PATHWAY POLE (REFER TO SHEET 3 FOR DETAILS)
	EXISTING TYPE P TRAFFIC CONTROLLER AND SIDE MOUNT UPS C/W CONCRETE SERVICE PADS
5	PROPOSED POLYMER JUNCTION BOX (17 x 30 x 24' OPEN BOTTOM) C/W LID LABELED "ELEC" AND STAINLESS STEEL PENTA BOLT
C	EXISTING COMMUNICATIONS BOX
	EXISTING JUNCTION BOX
R	LUMINAIRE ON RED PHASE CONDUCTOR
B	LUMINAIRE ON BLACK PHASE CONDUCTOR
Ø2	VEHICLE PHASE
P2	PEDESTRIAN PHASE
	PROPOSED CONDUIT AND CONDUCTORS
	EXISTING CONDUIT AND CONDUCTORS
	EXISTING 1-35mm RPVC C/W 3 No. 6 RW90 AND 1 No. 8 RW90 BOND
	EXISTING 1-35mm RPVC C/W 2 No. 6 RW90 AND 1 No. 8 RW90 BOND
	EXISTING COMMUNICATIONS CONDUITS
	PROPOSED 1.8mø DETECTOR LOOP

CITY TO CONFIRM COLOUR

TRAFFIC SIGNAL NOTES

1. 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.
2. CONDUCTORS INSIDE POLES SHALL BE:
   No. 14 RW90 X-LINK FOR SIGNALS
   No. 12 RW90 X-LINK FOR ALL OTHERS
3. 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 HANDHOLE.
4. EXACT POSITION OF ALL EQUIPMENT WILL BE LAYED OUT BY THE CITY REPRESENTATIVE.
5. ALL SINGLE CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOR CODED.
6. EMPTY CONDUITS SHALL HAVE A No.8 HB POLY YELLOW/GRN Mk PULL STRING AND CAPPED AT BOTH ENDS AS PER COQUITLAM SUPPLEMENTARY DRAWING SS-E2.5
7. WHERE INDIVIDUAL CONDUCTORS OR CABLES ARE RUN, ALL OF THE COMMON CIRCUITS SHALL BE BUNDLED, TY-RAPPED TOGETHER WITH IDENTIFICATION TAGS IN ALL JUNCTION BOXES, VAULTS, HAND HOLES, CONTROLLER AND ACCESS POINTS AS NOTED IN THE MMCD. TAGS SHALL BE MARKED AS FOLLOWS CABLE N/W POLE, STREET LIGHTING CCTS R OR B, PHOTOCELL, CONTROLLER POWER, WITH BLACK INDELIBLE MARKING PEN. TAGS TO BE ATTACHED NO FURTHER THAN 75mm FROM WIRE OR CABLE TERMINATION POINT.
8. TRAFFIC SIGNAL NEUTRALS SHALL BE KEPT SEPARATE FROM STREET LIGHTING NEUTRAL CONDUCTORS.
9. ALL SIGNAL HEADS AND LUMINAIRES SHALL BE BONDED WITH A SEPARATE No.12 RW90 CONDUCTOR (GREEN) AT THE HANDHOLE, AS REQUIRED.
10. EQUIPMENT MODELS SPECIFIED SHALL BE CONFIRMED WITH THE CITY IMMEDIATELY PRIOR TO THEIR PURCHASE TO ENSURE THAT THEY ARE CORRECT AND CURRENT. CUTSHEETS, EQUIPMENT, MAKE, MODEL & SERIAL LIST TO BE PROVIDED FOR EACH SIGNAL LOCATION.
11. ALL CONDUITS ENTERING POLES AND CABINETS SHALL BE SEALED WITH "DUCT SEAL".
12. SEE B.C. HYDRO STANDARDS FOR SERVICE CONNECTION DETAILS.
13. CONTRACTOR SHALL CONFIRM EXACT SERVICE LOCATIONS WITH B.C. HYDRO PRIOR TO CONSTRUCTION.
14. CONTRACTOR IS REQUIRED TO PROVIDE 72 HOURS NOTICE PRIOR TO ANY CONSTRUCTION.
15. TRAFFIC CONTROL IS REQUIRED TO CITY STANDARDS. (M.o.T.)
16. ALL POLES, POSTS, ARMS, ETC. TO BE GALVANIZED, PRIMED AND POWDER-COATED IN COLOUR. EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN RAL 6028, UNLESS OTHERWISE NOTED OR APPROVED.
17. INSTALL BELL END FITTING ON ALL CONDUITS ENTERING JUNCTION BOXES.
18. INSTALL HANGER BAR & TY-RAP WIRES TO BAR IN JUNCTION BOXES AS PER MMCD DRAWING COQUITLAM SUPPLEMENTARY DRAWING SS-E2.5
19. 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.
20. BOND ALL STEEL JUNCTION BOX LIDS.
21. CONTRACTOR SHALL REPLACE ALL ASPHALT, CONCRETE SIDEWALKS, LANDSCAPING AND WHEELCHAIR RAMPS REMOVED FOR THE INSTALLATION OF THE SIGNAL AND COMM EQUIPMENT, AND RESTORE TO THE SAME OR BETTER CONDITION.
22. AUDIBLE PEDESTRIAN SIGNAL ENTRANCE TO POLE (MOUNTING HOLE) SHALL BE SEALED WITH SILICONE SEALANT.
23. BACKBOARDS WITH PLUMBIZER GAPS OR KNOCKOUT SECTIONS WILL NOT BE ACCEPTED FOR ANY HEAD MOUNTED WITH OTHER THAN PLUMBIZER STYLE HARDWARE.
24. ALL ELECTRICAL PRODUCTS SHALL BEAR CSA/ETC APPROVALS OR BC ELECTRICAL INSPECTION PRIOR TO INSTALLATION.
25. SIGNAL WIRING SHALL BE TAGGED AND LABELED USING PANDUIT MP250-C TAGS AND THE APPROPRIATE PANDUIT INDELIBLE MARKER.
26. SECURITY HARDWARE TO BE USED ON ALL POLES, SECURITY BITS ARE TO BE SUBMITTED TO THE CITY AFTER SIGNAL HAS BEEN FULLY COMPLETED.
27. ALL DETECTOR TO LOOP CABLE SPLICES SHALL BE SOLDERED WITH ROSIN CORE SOLDER (NO ACID CORE OR ACID FLUX) THEN CAP WITH WATERPROOF GEL FILLED WIRE NUT AND TAPE WITH VINYL DI-ELECTRIC TAPE. SUSPEND AND TY-WRAP SPLICES IN TOP OF JUNCTION BOX WITH OPEN END OF WIRE NUTS POINTING DOWN. REFER TO COQUITLAM SUPPLEMENTARY DRAWINGS SS-E8.2 & SS-E8.4
28. DETECTOR CABLE TO BE IMSA 50-2 SPECIFICATION:
   2 CONDUCTOR 14 GAUGE STRANDED IMSA 50-2 SPECIFICATION SHIELDED LOOP DETECTOR CABLE.
29. ALL GROUND PLATES AND GROUND PLATE CONDUCTORS ARE TO HAVE A MINIMUM OF 5 METERS CLEARANCE BETWEEN THEM.
30. 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 SUPPLEMENTAL SPECIFICATION FOR DETAILS.
31. 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.
32. 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.
33. POLYMER CONCRETE 24 x 36 x 36 PULL BOXES SHALL BE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E2.3 C/W 2 PIECE BOLT DOWN LIDS. REPLACE 150mm FINE DRAIN ROCK WITH 300mm FINE DRAIN ROCK.
34. BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
35. ALL BOLT DOWN JUNCTION BOX LIDS SHALL BE TIER 15 (20K) RATED.
36. CONTRACTOR SHALL RE-USE THE EXISTING EMTRAC ANTENNA, MOUNTING BRACKET AND OTHER ASSOCIATED EQUIPMENT. THE CONTRACTOR WILL SUPPLY AND INSTALL A NEW NEOPRENE GASKET MATERIAL TO FORM A SEAL BETWEEN THE BRACKET AND POLE. NEOPRENE SHALL BE FULLY ENCLOSED WITHIN OUTER EDGES OF THE BRACKET SUCH THAT NONE IS VISIBLE AFTER INSTALLATION. EMTRAC CABLE (TIMES COMMUNICATION CABLE LMR-240DB) WILL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. EMTRAC CABLE WILL RUN CONTINUOUS WITH NO SPLICES FROM CONTROLLER TO THE EMTRAC ANTENNA. TERMINATION OF CABLE TO BE DONE BY COBRA ELECTRIC.

INTERSECTION DESIGN CRITERIA
PER: (CITY BYLAW 3558)

INTERSECTION (NAME)		GUILDFORD WAY	TOWN CENTRE DRIVE
LAND USE CLASSIFICATION		RESIDENTIAL / RESIDENTIAL	
ROADWAY CLASSIFICATION & WIDTH		ARTERIAL	LOCAL
PEDESTRIAN ACTIVITY LEVEL		MEDIUM	MEDIUM
ILLUMINANCE RECOMMENDED/DELIVERED		20.0 LUX	24.4 LUX
UNIFORMITY RECOMMENDED/DELIVERED		3.0:1	2.4:1
LIGHT LOSS FACTOR		0.84	
SPACING		AS SHOWN	
EQUIPMENT			
FIXTURE TYPE: LED	WATTAGE: 135W	MTG. HEIGHT: 9.5m	DIST TYPE: 2ES
IES FILE:	NXT-72M-600mA-2ES-4K	MODEL: NXT-72M-SERIES	
FIXTURE TYPE: LED	WATTAGE: 84W	MTG. HEIGHT: 9m/9.5m	DIST TYPE: 2ES
IES FILE:	NXT-60M-450mA-2ES-4K	MODEL: NXT-60M-SERIES	

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

CAUTION!
EXCAVATION NEAR OVERHEAD UTILITY POLE

ANY UNDERGROUND EXCAVATION WITHIN SOIL FOUNDATION INTERACTION AREA REQUIRES TEMPORARY UTILITY POLE SUPPORT. REFER TO ES55 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.

ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED

NOT FOR CONSTRUCTION
2024-04-19

DO NOT USE THIS DRAWING FOR PAVEMENT MARKINGS.

CONTRACTOR SHALL CLEAN OUT AND CLEAR ALL JB'S & EMPTY CONDUITS PRIOR TO INSTALLING NEW CABLES.

THE CONTRACTOR SHALL CUT OUT ALL REDUNDANT CONDUITS THAT HAVE BEEN ABANDONED THAT ENTER EXISTING JUNCTION BOXES AND GROUT OVER OLD ENTRY HOLES.

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.

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.

BC CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR #6886 Vancouver Area 257-1940
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.
#12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589-9010
office@dmdeng.com Fax 604/589-9012
DMD PROJECT No. 8121-24-07 of 10

No.	Date	By	Revisions
.	19-04-2024	BG	ISSUED FOR TENDER

ACCEPTED FOR CONSTRUCTION
Date:
Manager of Development Servicing

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

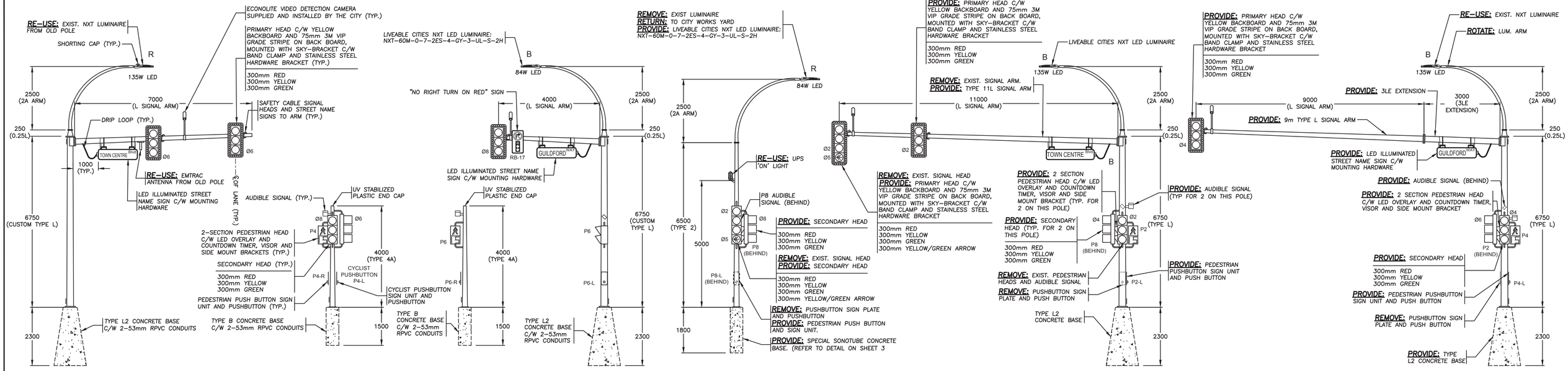
PERMIT TO PRACTICE
Signature:
Date: 19-04-2024
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal: 2024-04-19

Design by BG	Date 27-02-2024	Scale 1:250	
Drawn by YJ	Date 27-02-2024	Sheet of 7 OF 10	
Checked by NB	Date 27-02-2024	Eng. Project No.	
Approved by	Date 27-02-2024		

Project: GUILDFORD WAY AND TOWN CENTRE BOULEVARD
Description: TRAFFIC SIGNAL MODIFICATIONS
File: 8121-24-TS

Plot Date: April 19, 2024



ELEVATIONS

0 1:75 5

THE CITY WILL SUPPLY AND INSTALL THE FOLLOWING MATERIALS.

1) ECONOLITE AUTOSCOPE VIDEO DETECTION SYSTEM

THE CONTRACTOR SHALL SUPPLY AND INSTALLED THE 3C IMAGE SENSOR CABLE FOR THIS SYSTEM.

THE CONTRACTOR SHALL PROVIDE THE CITY 30 DAYS NOTICE PRIOR TO REQUIRING THE VIDEO DETECTION SYSTEM. CONTACT BERNARD TUNG 604-927-6257 WITH THE CITY OF COQUITLAM TRAFFIC DEPARTMENT.

THE CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING ADDITIONAL 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) ILLUMINATED STREET NAME SIGNS C/W MOUNTING HARDWARE

ALL SIGNAL DISPLAY SHALL HAVE TUNNEL VISORS

ALL SIGNAL AND PEDESTRIAN DISPLAYS SHALL BE LED

PLUG OLD HOLE WITH STAINLESS STEEL BOLTS AND ALUMINUM CAPS

CONTRACTOR IS REQUIRED TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR ALL NEW POLE(S). POLE LOADING ANALYSIS MUST BE COMPLETED BY THE POLE MANUFACTURER TO ENSURE POLE(S) ARE CHECKED FOR FATIGUE AND FATIGUE LOADING IN COMPLIANCE WITH CAN/CSA-S6-19 AND AASHTO 2013 SECTION 11 STANDARDS.

REFER 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.

CONDUCTOR COLOUR CODE
(FROM HANDHOLE TO SIGNAL)

ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
ø2	RED YELLOW GREEN	RED YELLOW BLUE
ø4	RED YELLOW GREEN	RED BROWN BLUE
ø5	YELLOW ARROW GREEN ARROW	ORANGE (WHITE T.T.) BLUE (WHITE T.T.)
ø6	RED YELLOW GREEN	RED YELLOW (RED T.T.) BLUE
ø8	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 POWER	BLACK RED
PANEL SUPPLY	POWER POWER	BLACK RED
PHOTOCELL	POWER	BLACK
	SWITCH LEG	RED
NEUTRAL	NEUTRAL	WHITE
GROUND/BOND	GROUND/BOND	GREEN

NOTE: T.T. DENOTES TAPE TRACER.

ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED

NOT FOR CONSTRUCTION
2024-04-19

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or by CELLULAR *6886
Vancouver Area 257-1940
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Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

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www.dmdeng.com 604/589-9010
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DMD PROJECT No. 8121-24-08 of 10

No.	Date	By	Revisions
.	19-04-2024	BG	ISSUED FOR TENDER

ACCEPTED FOR CONSTRUCTION
Date:
Manager of Development Servicing

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

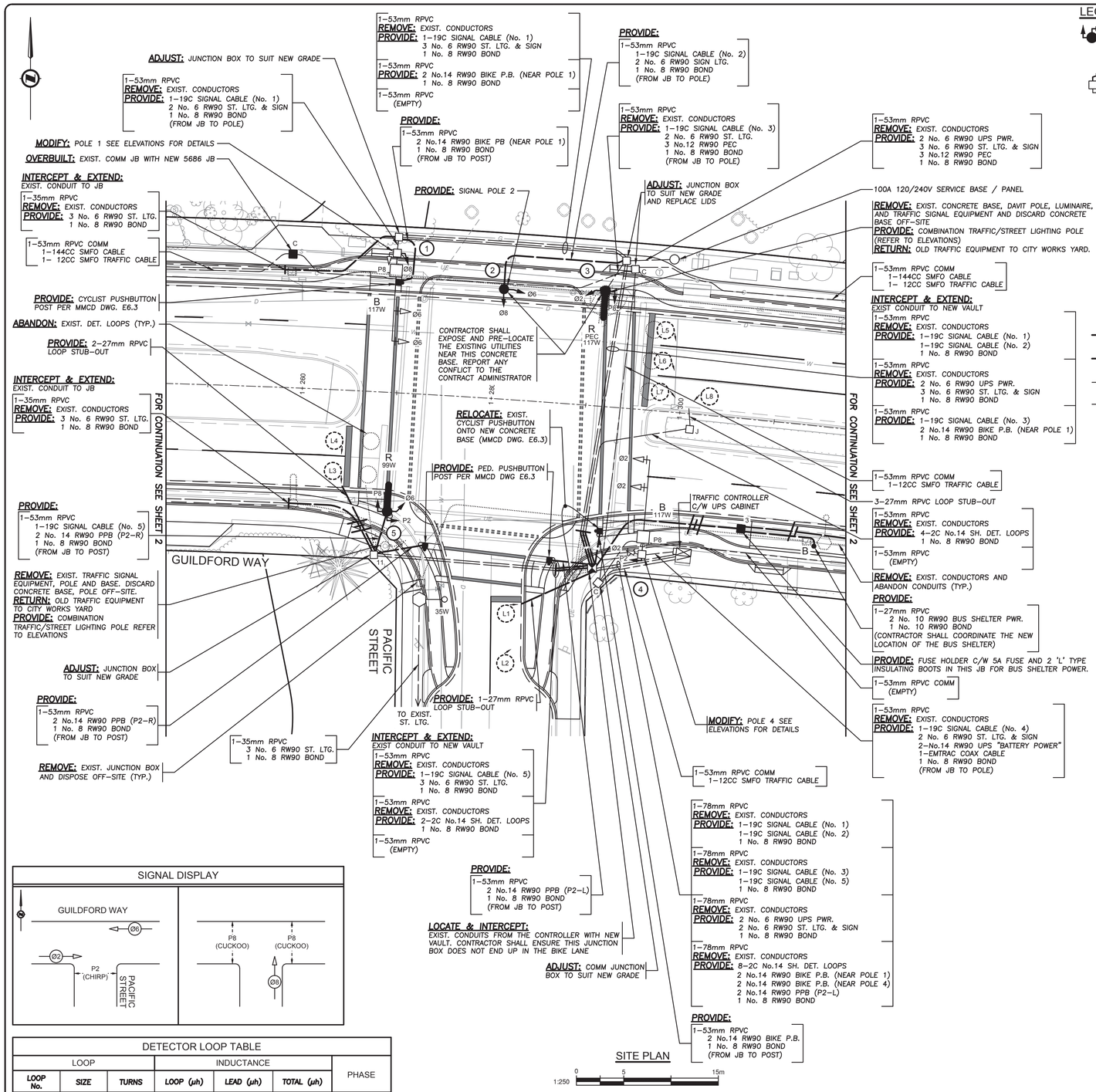
PERMIT TO PRACTICE
Signature:
Date: 19-04-2024
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal:
PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA
2024-04-19

Design by BG	Date 27-02-2024	Scale 1:75	
Drawn by YJ	Date 27-02-2024	Sheet of 8 OF 10	
Checked by NB	Date 27-02-2024	Eng. Project No. -	
Approved by	Date 27-02-2024		

Project: GUILDFORD WAY AND TOWN CENTRE BOULEVARD
Description: TRAFFIC SIGNAL MODIFICATIONS
File: 8121-24-TS

Plot Date: April 19, 2024



ADJUST: JUNCTION BOX TO SUIT NEW GRADE

1–53mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 1–19C SIGNAL CABLE (No. 1)
2 No. 6 RW90 ST. LTG. & SIGN
1 No. 8 RW90 BOND
(FROM JB TO POLE)

MODIFY: POLE 1 SEE ELEVATIONS FOR DETAILS

OVERBUILT: EXIST. COMM JB WITH NEW 5686 JB

INTERCEPT & EXTEND:
EXIST. CONDUIT TO JB
1–35mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1–53mm RPVC COMM
1–144CC SMFO CABLE
1– 12CC SMFO TRAFFIC CABLE

PROVIDE: CYCLIST PUSHBUTTON POST PER MMCD DWG. E6.3

ABANDON: EXIST. DET. LOOPS (TYP.)

PROVIDE: 2–27mm RPVC LOOP STUB–OUT

INTERCEPT & EXTEND:
EXIST. CONDUIT TO JB
1–35mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

PROVIDE:
1–53mm RPVC
1–19C SIGNAL CABLE (No. 5)
2 No. 14 RW90 PPB (P2–R)
1 No. 8 RW90 BOND
(FROM JB TO POST)

REMOVE: EXIST. TRAFFIC SIGNAL EQUIPMENT, POLE AND BASE. DISCARD CONCRETE BASE, POLE OFF–SITE.
RETURN: OLD TRAFFIC EQUIPMENT TO CITY WORKS YARD
PROVIDE: COMBINATION TRAFFIC/STREET LIGHTING POLE REFER TO ELEVATIONS

ADJUST: JUNCTION BOX TO SUIT NEW GRADE

PROVIDE:
1–53mm RPVC
2 No.14 RW90 PPB (P2–R)
1 No. 8 RW90 BOND
(FROM JB TO POST)

REMOVE: EXIST. JUNCTION BOX AND DISPOSE OFF–SITE (TYP.)

1–35mm RPVC
3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1–53mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 1–19C SIGNAL CABLE (No. 1)
3 No. 6 RW90 ST. LTG. & SIGN
1 No. 8 RW90 BOND

1–53mm RPVC
PROVIDE: 2 No.14 RW90 BIKE P.B. (NEAR POLE 1)
1 No. 8 RW90 BOND

1–53mm RPVC
(EMPTY)

PROVIDE:
1–53mm RPVC
2 No.14 RW90 BIKE PB (NEAR POLE 1)
1 No. 8 RW90 BOND
(FROM JB TO POST)

PROVIDE: SIGNAL POLE 2

PROVIDE: 1–27mm RPVC LOOP STUB–OUT

INTERCEPT & EXTEND:
EXIST CONDUIT TO NEW VAULT
1–53mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 1–19C SIGNAL CABLE (No. 5)
3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1–53mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 2–2C No.14 SH. DET. LOOPS
1 No. 8 RW90 BOND

1–53mm RPVC
(EMPTY)

PROVIDE:
1–53mm RPVC
2 No.14 RW90 PPB (P2–L)
1 No. 8 RW90 BOND
(FROM JB TO POST)

LOCATE & INTERCEPT: EXIST. CONDUITS FROM THE CONTROLLER WITH NEW VAULT. CONTRACTOR SHALL ENSURE THIS JUNCTION BOX DOES NOT END UP IN THE BIKE LANE

ADJUST: COMM JUNCTION BOX TO SUIT NEW GRADE

CONTRACTOR SHALL EXPOSE AND PRE–LOCATE THE EXISTING UTILITIES NEAR THIS CONCRETE BASE. REPORT ANY CONFLICT TO THE CONTRACT ADMINISTRATOR

RELOCATE: EXIST. CYCLIST PUSHBUTTON ONTO NEW CONCRETE BASE (MMCD DWG. E6.3)

PROVIDE: PED. PUSHBUTTON POST PER MMCD DWG E6.3

ADJUST: JUNCTION BOX TO SUIT NEW GRADE AND REPLACE LIDS

MODIFY: POLE 4 SEE ELEVATIONS FOR DETAILS

1–53mm RPVC COMM
1–12CC SMFO TRAFFIC CABLE

1–78mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 1–19C SIGNAL CABLE (No. 1)
1–19C SIGNAL CABLE (No. 2)
1 No. 8 RW90 BOND

1–78mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 1–19C SIGNAL CABLE (No. 3)
1–19C SIGNAL CABLE (No. 5)
1 No. 8 RW90 BOND

1–78mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 2 No. 6 RW90 UPS PWR.
2 No. 6 RW90 ST. LTG. & SIGN
1 No. 8 RW90 BOND

1–78mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 8–2C No.14 SH. DET. LOOPS
2 No.14 RW90 BIKE P.B. (NEAR POLE 1)
2 No.14 RW90 BIKE P.B. (NEAR POLE 4)
2 No.14 RW90 PPB (P2–L)
1 No. 8 RW90 BOND

PROVIDE:
1–53mm RPVC
2 No.14 RW90 BIKE P.B.
1 No. 8 RW90 BOND
(FROM JB TO POST)

1–53mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 2 No. 6 RW90 UPS PWR.
3 No. 6 RW90 ST. LTG. & SIGN
3 No.12 RW90 PEC
1 No. 8 RW90 BOND

100A 120/240V SERVICE BASE / PANEL

REMOVE: EXIST. CONCRETE BASE, DAVIT POLE, LUMINAIRE, AND TRAFFIC SIGNAL EQUIPMENT AND DISCARD CONCRETE BASE OFF–SITE
PROVIDE: COMBINATION TRAFFIC/STREET LIGHTING POLE (REFER TO ELEVATIONS)
RETURN: OLD TRAFFIC EQUIPMENT TO CITY WORKS YARD.

1–53mm RPVC COMM
1–144CC SMFO CABLE
1– 12CC SMFO TRAFFIC CABLE

INTERCEPT & EXTEND:
EXIST CONDUIT TO NEW VAULT
1–53mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 1–19C SIGNAL CABLE (No. 1)
1–19C SIGNAL CABLE (No. 2)
1 No. 8 RW90 BOND

1–53mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 2 No. 6 RW90 UPS PWR.
3 No. 6 RW90 ST. LTG. & SIGN
1 No. 8 RW90 BOND

1–53mm RPVC
PROVIDE: 1–19C SIGNAL CABLE (No. 3)
2 No.14 RW90 BIKE P.B. (NEAR POLE 1)
1 No. 8 RW90 BOND

1–53mm RPVC COMM
1–12CC SMFO TRAFFIC CABLE

3–27mm RPVC LOOP STUB–OUT

1–53mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 4–2C No.14 SH. DET. LOOPS
1 No. 8 RW90 BOND

1–53mm RPVC
(EMPTY)

REMOVE: EXIST. CONDUCTORS AND ABANDON CONDUITS (TYP.)

PROVIDE:
1–27mm RPVC
2 No. 10 RW90 BUS SHELTER PWR.
1 No. 10 RW90 BOND
(CONTRACTOR SHALL COORDINATE THE NEW LOCATION OF THE BUS SHELTER)

PROVIDE: FUSE HOLDER C/W 5A FUSE AND 2 'L' TYPE INSULATING BOOTS IN THIS JB FOR BUS SHELTER POWER.

1–53mm RPVC COMM
(EMPTY)

1–53mm RPVC
REMOVE: EXIST. CONDUCTORS
PROVIDE: 1–19C SIGNAL CABLE (No. 4)
2 No. 6 RW90 ST. LTG. & SIGN
2–No.14 RW90 UPS "BATTERY POWER"
1–EMTRAC COAX CABLE
1 No. 8 RW90 BOND
(FROM JB TO POLE)

LEGEND

- PROPOSED COMBINATION TRAFFIC/STREET LIGHTING POLE
- PROPOSED TRAFFIC SIGNAL POST
- EXISTING TRAFFIC SIGNAL POLE
- PROPOSED CONCRETE VAULT (1.04m x 1.04m) C/W BONDED GALVANIZED STEEL CHECKER PLATE LIDS LABELED 'ELEC'. REFER TO COQUITLAM DWG. SS–E2.5.
- PROPOSED POLYMER JUNCTION BOX (11" x 18" x 24", OPEN BOTTOM) C/W LID LABELED 'ELEC' AND STAINLESS STEEL PENTA BOLT
- PROPOSED COMMUNICATIONS JUNCTION BOX TYPE 5686 JUNCTION BOX C/W LID LABELED "COMM" AND STAINLESS STEEL PENTA BOLT
- EXISTING JUNCTION BOX
- EXISTING COMMUNICATIONS JUNCTION BOX
- LUMINAIRE ON RED PHASE CONDUCTOR
- LUMINAIRE ON BLACK PHASE CONDUCTOR
- VEHICLE PHASE — CITY TO CONFIRM COLOUR
- PEDESTRIAN PHASE
- PROPOSED CONDUIT AND CONDUCTORS
- PROPOSED 3 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 53mm RPVC
- EXISTING CONDUIT AND CONDUCTORS
- EXISTING COMMUNICATIONS CONDUITS
- PROPOSED 1.8mø DETECTOR LOOP

TRAFFIC SIGNAL NOTES

1. 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.
2. CONDUCTORS INSIDE POLES SHALL BE:
   No. 14 RW90 X–LINK FOR SIGNALS
   No. 12 RW90 X–LINK FOR ALL OTHERS
3. 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 HANDHOLE.
4. EXACT POSITION OF ALL EQUIPMENT WILL BE LAYED OUT BY THE CITY REPRESENTATIVE.
5. ALL SINGLE CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOR CODED.
6. EMPTY CONDUITS SHALL HAVE A No.8 HB POLY YELLOW/GRN Mk PULL STRING AND CAPPED AT BOTH ENDS AS PER COQUITLAM SUPPLEMENTARY DRAWING SS–E2.5
7. WHERE INDIVIDUAL CONDUCTORS OR CABLES ARE RUN, ALL OF THE COMMON CIRCUITS SHALL BE BUNDLED, TY–RAPPED TOGETHER WITH IDENTIFICATION TAGS IN ALL JUNCTION BOXES, VAULTS, HAND HOLES, CONTROLLER AND ACCESS POINTS AS NOTED IN THE MMCD. TAGS SHALL BE MARKED AS FOLLOWS CABLE N/W POLE, STREET LIGHTING CCTS R OR B, PHOTOCELL, CONTROLLER POWER, WITH BLACK INDELIBLE MARKING PEN. TAGS TO BE ATTACHED NO FURTHER THAN 75mm FROM WIRE OR CABLE TERMINATION POINT.
8. TRAFFIC SIGNAL NEUTRALS SHALL BE KEPT SEPARATE FROM STREET LIGHTING NEUTRAL CONDUCTORS.
9. ALL SIGNAL HEADS AND LUMINAIRES SHALL BE BONDED WITH A SEPARATE No.12 RW90 CONDUCTOR (GREEN) AT THE HANDHOLE, AS REQUIRED.
10. EQUIPMENT MODELS SPECIFIED SHALL BE CONFIRMED WITH THE CITY IMMEDIATELY PRIOR TO THEIR PURCHASE TO ENSURE THAT THEY ARE CORRECT AND CURRENT. CUTSHEETS, EQUIPMENT, MAKE, MODEL & SERIAL LIST TO BE PROVIDED FOR EACH SIGNAL LOCATION.
11. ALL CONDUITS ENTERING POLES AND CABINETS SHALL BE SEALED WITH "DUCT SEAL".
12. SEE B.C. HYDRO STANDARDS FOR SERVICE CONNECTION DETAILS.
13. CONTRACTOR SHALL CONFIRM EXACT SERVICE LOCATIONS WITH B.C. HYDRO PRIOR TO CONSTRUCTION.
14. CONTRACTOR IS REQUIRED TO PROVIDE 72 HOURS NOTICE PRIOR TO ANY CONSTRUCTION.
15. TRAFFIC CONTROL IS REQUIRED TO CITY STANDARDS. (M.o.T.)
16. ALL POLES, POSTS, ARMS, ETC. TO BE GALVANIZED, PRIMED AND POWDER–COATED IN COLOUR. EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN RAL 6028 UNLESS OTHERWISE NOTED OR APPROVED.
17. INSTALL BELL END FITTING ON ALL CONDUITS ENTERING JUNCTION BOXES.
18. INSTALL HANGER BAR & TY–RAP WIRES TO BAR IN JUNCTION BOXES AS PER MMCD DRAWING COQUITLAM SUPPLEMENTARY DRAWING SS–E2.5
19. 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.
20. BOND ALL STEEL JUNCTION BOX LIDS.
21. CONTRACTOR SHALL REPLACE ALL ASPHALT, CONCRETE SIDEWALKS, LANDSCAPING AND WHEELCHAIR RAMPS REMOVED FOR THE INSTALLATION OF THE SIGNAL AND COMM EQUIPMENT, AND RESTORE TO THE SAME OR BETTER CONDITION.
22. AUDIBLE PEDESTRIAN SIGNAL ENTRANCE TO POLE (MOUNTING HOLE) SHALL BE SEALED WITH SILICONE SEALANT.
23. BACKBOARDS WITH PLUMBIZER GAPS OR KNOCKOUT SECTIONS WILL NOT BE ACCEPTED FOR ANY HEAD MOUNTED WITH OTHER THAN PLUMBIZER STYLE HARDWARE.
24. ALL ELECTRICAL PRODUCTS SHALL BEAR CSA/ETC APPROVALS OR BC ELECTRICAL INSPECTION PRIOR TO INSTALLATION.
25. SIGNAL WIRING SHALL BE TAGGED AND LABELED USING PANDUIT MP250–C TAGS AND THE APPROPRIATE PANDUIT INDELIBLE MARKER.
26. SECURITY HARDWARE TO BE USED ON ALL POLES, SECURITY BITS ARE TO BE SUBMITTED TO THE CITY AFTER SIGNAL HAS BEEN FULLY COMPLETED.
27. ALL DETECTOR TO LOOP CABLE SPLICES SHALL BE SOLDERED WITH ROSIN CORE SOLDER (NO ACID CORE OR ACID FLUX) THEN CAP WITH WATERPROOF GEL FILLED WIRE NUT AND TAPE WITH VINYL DI–ELECTRIC TAPE. SUSPEND AND TY–WRAP SPLICES IN TOP OF JUNCTION BOX WITH OPEN END OF WIRE NUTS POINTING DOWN. REFER TO COQUITLAM SUPPLEMENTARY DRAWINGS SS–E8.2 & SS–E8.4
28. DETECTOR CABLE TO BE IMSA 50–2 SPECIFICATION:
    2 CONDUCTOR 14 GAUGE STRANDED IMSA 50–2 SPECIFICATION SHIELDED LOOP DETECTOR CABLE.
29. ALL GROUND PLATES AND GROUND PLATE CONDUCTORS ARE TO HAVE A MINIMUM OF 5 METERS CLEARANCE BETWEEN THEM.
30. 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 SUPPLEMENTAL SPECIFICATION FOR DETAILS.
31. 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.
32. 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.
33. POLYMER CONCRETE 24 x 36 x 36 PULL BOXES SHALL BE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E2.3 C/W 2 PIECE BOLT DOWN LIDS. REPLACE 150mm FINE DRAIN ROCK WITH 300mm FINE DRAIN ROCK.
34. BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
35. ALL BOLT DOWN JUNCTION BOX LIDS SHALL BE TIER 15 (20K) RATED.
36. EMTRAC ANTENNA CABLE (TIMES COMMUNICATION CABLE LMR–240DB) WILL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. EMTRAC CABLE WILL RUN CONTINUOUS WITH NO SPLICES FROM CONTROLLER TO THE EMTRAC ANTENNA. TERMINATION OF CABLE TO BE DONE BY COBRA ELECTRIC.

SIGNAL DISPLAY

DETECTOR LOOP TABLE

LOOP			INDUCTANCE			PHASE
LOOP No.	SIZE	TURNS	LOOP (µh)	LEAD (µh)	TOTAL (µh)	
L1	1.8 ø	4	95	10	105	ø8
L2	1.8 ø	4	95	10	105	ø8
L3	1.8 ø	4	95	27	122	ø2
L4	1.8 ø	4	95	27	122	ø2
L5	1.8 ø	4	95	27	122	ø6
L6	1.8 ø	4	95	27	122	ø6
L7	1.8 ø	4	95	27	122	ø6
L8	1.8 ø	4	95	27	122	ø6

INTERSECTION DESIGN CRITERIA PER: (CITY BYLAW 3558)

INTERSECTION (NAME)		GUILDFORD WAY	PACIFIC STREET
LAND USE CLASSIFICATION		RESIDENTIAL / RESIDENTIAL	
ROADWAY CLASSIFICATION & WIDTH		ARTERIAL	LOCAL
PEDESTRIAN ACTIVITY LEVEL		MEDIUM	MEDIUM
ILLUMINANCE RECOMMENDED/DELIVERED		20.0 LUX	23.2 LUX
UNIFORMITY RECOMMENDED/DELIVERED		3.0:1	1.9:1
LIGHT LOSS FACTOR		0.84	
SPACING		AS SHOWN	
EQUIPMENT			
FIXTURE TYPE: LED	WATTAGE: 117W	MTG. HEIGHT: 10.5m	DIST TYPE: 2ES
IES FILE:	NXT–72M–525mA–2ES–4K	MODEL: NXT–72M–SERIES	
FIXTURE TYPE: LED	WATTAGE: 117W	MTG. HEIGHT: 9m	DIST TYPE: 2ES
IES FILE:	NXT–72M–525mA–2ES–4K	MODEL: NXT–72M–SERIES	
FIXTURE TYPE: LED	WATTAGE: 99W	MTG. HEIGHT: 9m	DIST TYPE: 2ES
IES FILE:	NXT–60M–525mA–2ES–4K	MODEL: NXT–60M–SERIES	
FIXTURE TYPE: LED	WATTAGE: 35W	MTG. HEIGHT: 9m	DIST TYPE: 2ES
IES FILE:	NXT–24S–450mA–2ES–3K	MODEL: NXT–24S–SERIES	

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

CAUTION! EXCAVATION NEAR OVERHEAD UTILITY POLE

ANY UNDERGROUND EXCAVATION WITHIN SOIL FOUNDATION INTERACTION AREA REQUIRES TEMPORARY UTILITY POLE SUPPORT. REFER TO ES55 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.

CONTRACTOR SHALL CLEAN OUT AND CLEAR ALL JB'S & EMPTY CONDUITS PRIOR TO INSTALLING NEW CABLES.

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.

DO **NOT** USE THIS DRAWING FOR PAVEMENT MARKINGS.

ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED

NOT FOR CONSTRUCTION
2024-04-19

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.

BC 1 CALL — CALL BEFORE YOU DIG!
1–800–474–6886
or by CELLULAR #0886
Vancouver Area 257–840
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 & 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. 8121–24–09 of 10

No.	Date	By	Revisions
.	19–04–2024	BG	ISSUED FOR TENDER

ACCEPTED FOR CONSTRUCTION
Date:
Manager of Development Servicing

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

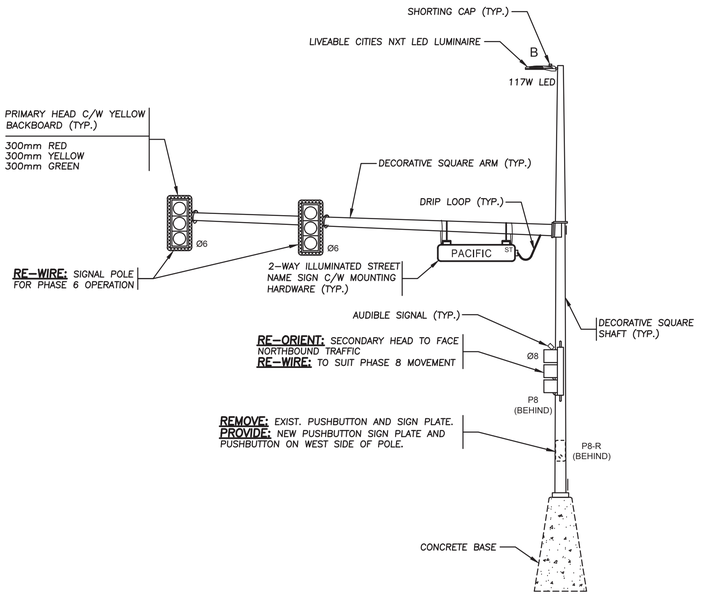
PERMIT TO PRACTICE
Signature:
Date: 19–04–2024
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal: PROFESSIONAL ENGINEER — N. WRIGHT — 2024–04–19

Design by BG	Date 27–02–2024	Scale 1:250	
Drawn by YJ	Date 27–02–2024	Sheet of 9 OF 10	
Checked by NB	Date 27–02–2024	Eng. Project No. .	
Approved by .	Date 27–02–2024		

Project: GUILDFORD WAY AND PACIFIC STREET
Description: TRAFFIC SIGNAL MODIFICATIONS
File: 8121–24–TS

Plot Date: April 19, 2024



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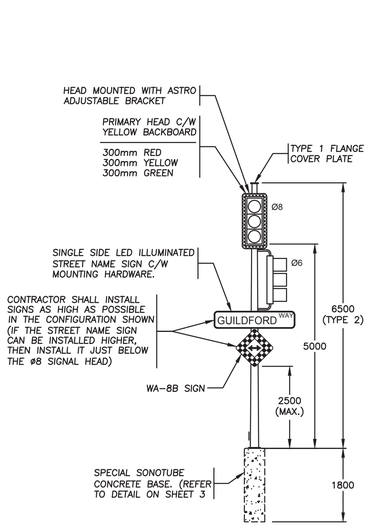

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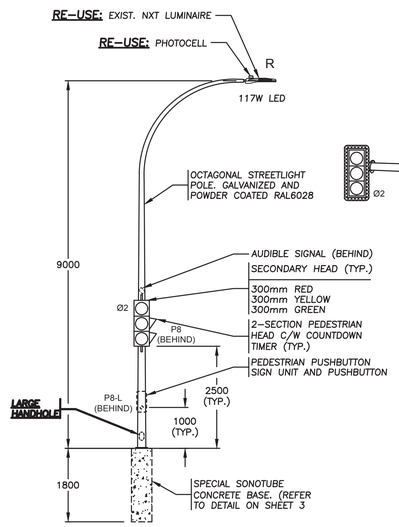

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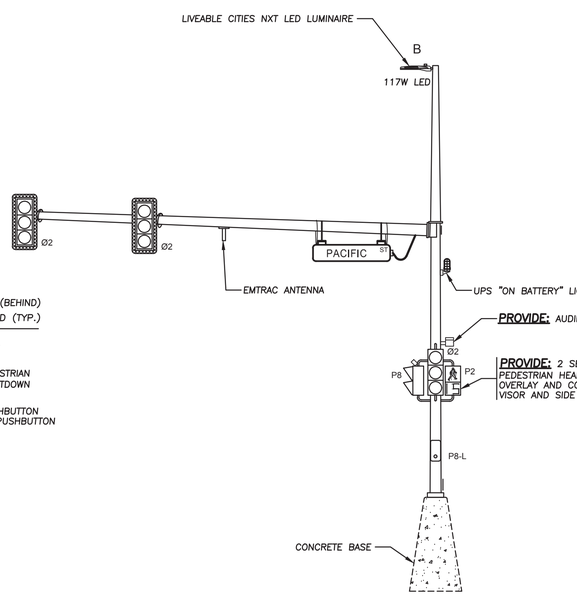

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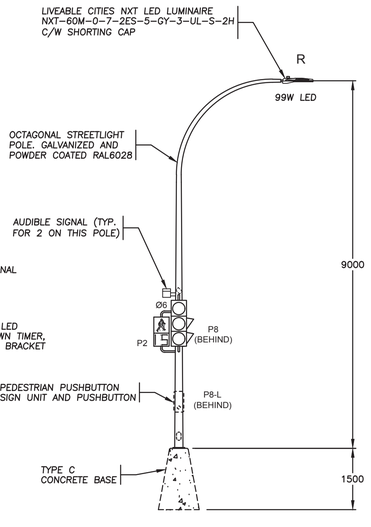

PROVIDE: (5)

ELEVATIONS

0 1:75 5

ALL SIGNAL DISPLAY SHALL HAVE TUNNEL VISORS

ALL SIGNAL AND PEDESTRIAN DISPLAYS SHALL BE LED

PLUG OLD HOLE WITH STAINLESS STEEL BOLTS AND ALUMINUM CAPS PAINT TO MATCH POLES

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) ILLUMINATED STREET NAME SIGNS C/W MOUNTING HARDWARE

CONDUCTOR COLOUR CODE
(FROM HANDHOLE TO SIGNAL)

ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
ø2	RED YELLOW GREEN	RED YELLOW BLUE
ø6	RED YELLOW GREEN	RED YELLOW (RED T.T.) BLUE
ø8	RED YELLOW GREEN	RED BROWN (ORANGE T.T.) BLUE
P2	DON'T WALK WALK PUSHBUTTON	YELLOW BLUE PURPLE/PURPLE (YELLOW 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
STREET/SIGN LIGHTING LUMINAIRES	B R	BLACK RED
TRAFFIC CONTROLLER	POWER	BLACK
PHOTOCELL	POWER	BLACK
	SWITCH LEG	RED
PANEL SUPPLY	POWER POWER	BLACK RED
NEUTRAL	NEUTRAL	WHITE
GROUND/BOND	GROUND/BOND	GREEN

NOTE: T.T. DENOTES TAPE TRACER.

REFER 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. 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.

ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED

NOT FOR CONSTRUCTION
2024-04-19

BC 1 CALL — CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR #6886 Vancouver Area 257-7840
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 & 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. 8121-24-10 of 10

No.	Date	By	Revisions
.	19-04-2024	BG	ISSUED FOR TENDER

ACCEPTED FOR CONSTRUCTION
Date:_____
Manager of Development Servicing

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

PERMIT TO PRACTICE
Signature:_____
Date: 19-04-2024
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal: PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — N. W. TROTT
2024-04-19

Design by BG	Date 27-02-2024	Scale 1:75	
Drawn by YJ	Date 27-02-2024	Sheet of 10 OF 10	
Checked by NB	Date 27-02-2024	Eng. Project No.	
Approved by	Date 27-02-2024		

Project: GUILDFORD WAY AND PACIFIC STREET
Description: TRAFFIC SIGNAL MODIFICATIONS
File: 8121-24-TS

Plot Date: April 19, 2024