

CLIENT

ADDRESS / CONTACT INFO.

# CITY OF COQUITLAM

3000 GUILDFORD WAY, COQUITLAM

PROJECT NAME

## 2026 SIDEWALK REHABILITATION

DESCRIPTION

PANORAMA DRIVE AND PARKWAY BOULEVARD

McELHANNEY PROJECT

2111-06671-00

STATUS

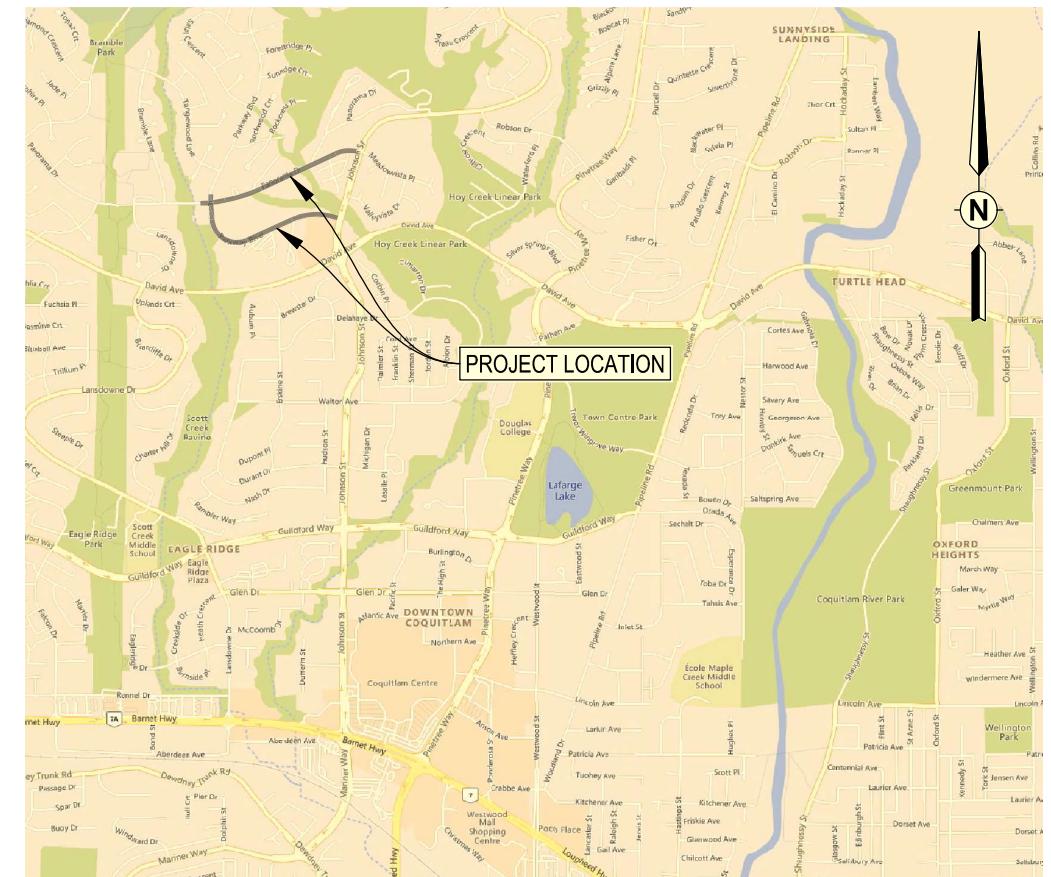
### IFT DESIGN SUBMISSION



# McElhanney

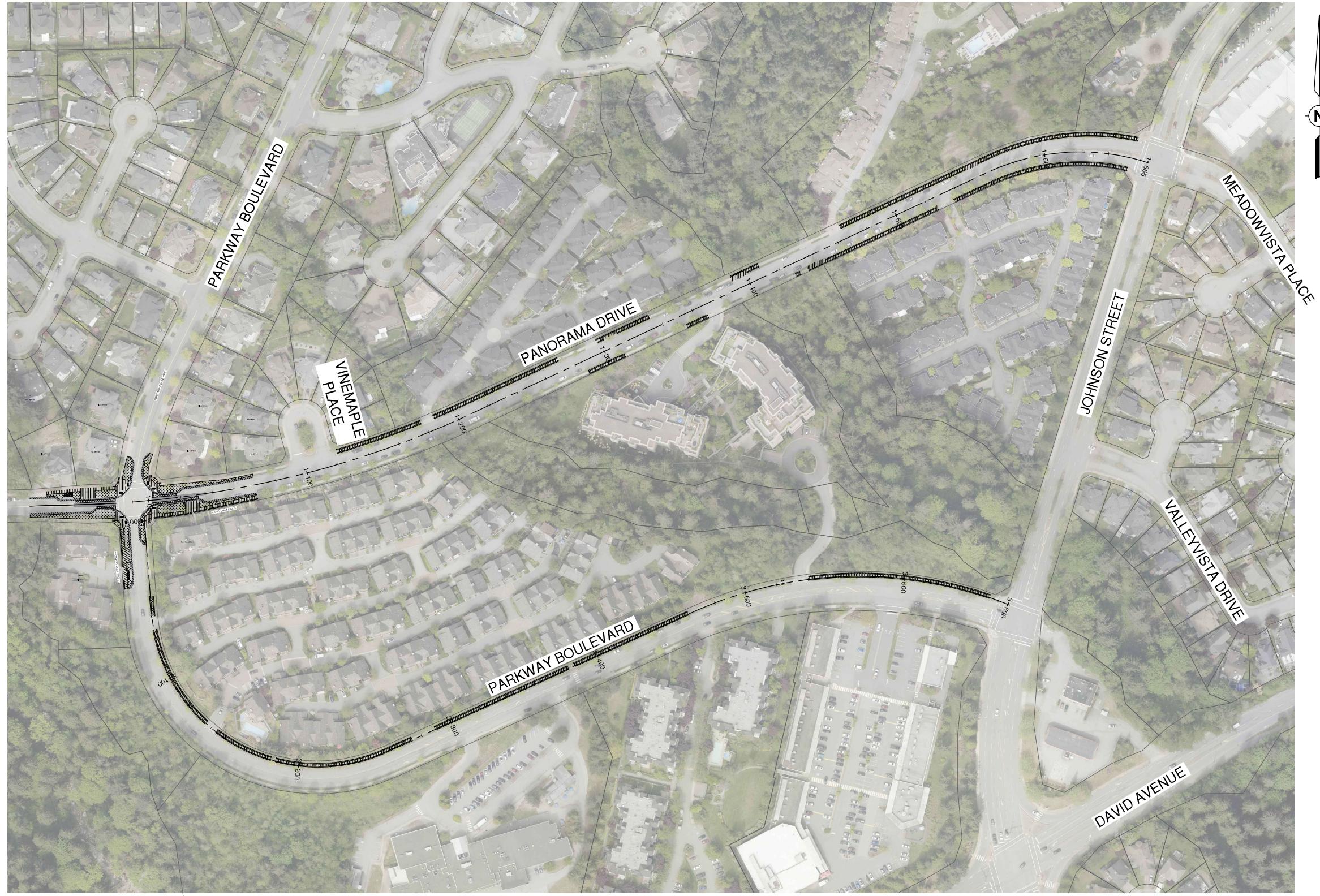
Suite 2300 Central City Tower  
 13450 102nd Avenue,  
 Surrey BC V3T 5X3  
 Tel. 604 596 0391

SHEET #	SHEET TITLE	DRAWING LIST						
		REVISIONS						
		A	B	C	0	1	2	3
00	COVER		X	X	X			
01	SITE PLAN		X	X	X			
02	ROADWORKS - PANORAMA DRIVE - STA. 0+990 TO STA. 1+270		X	X	X			
03	ROADWORKS - PANORAMA DRIVE - STA. 1+270 TO STA. 1+550		X	X	X			
04	ROADWORKS - PANORAMA DRIVE - STA. 1+550 TO STA. 1+665		X	X	X			
05	ROADWORKS - PARKWAY BOULEVARD - STA. 3+110 TO STA. 3+405		X	X	X			
06	ROADWORKS - PARKWAY BOULEVARD - STA. 3+405 TO STA. 3+660		X	X	X			
07	ROADWORKS - PANORAMA DRIVE AND PARKWAY BOULEVARD INTERSECTION		X	X	X			
08	ROADWORKS - SPOT ELEVATIONS					X		



LOCATION PLAN

SCALE 1:15,000



#### GENERAL CONSTRUCTION NOTES:

1. ALL WORKS TO CONFORM TO THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (2009 EDITION - PLATINUM) AND ALL COQUITLAM APPROVED REVISIONS, AND TO THE CURRENT EDITION OF THE CITY OF COQUITLAM SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAIL DRAWINGS.
2. REPAIR AND/OR REPLACE ALL INFRASTRUCTURE/PRIVATE PROPERTY DAMAGED OR REMOVED DURING CONSTRUCTION, TO BETTER THAN, OR EQUAL TO PRE-CONSTRUCTION CONDITION.
3. REINSTATE ALL PRIVATE PROPERTY AND BOULEVARDS TO PRE-CONSTRUCTION CONDITIONS.
4. CONTACT MUNICIPAL URBAN FORESTRY DEPARTMENT PRIOR TO WORKING IN AND AROUND TREES.
5. ENSURE THE CURRENT MUNICIPAL O.H.&S. GROUND DISTURBANCE PRACTICE AND PROCEDURES ARE FOLLOWED, CONTACT BC1 AT 1-800-474-6886 FOR EXTERNAL UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
6. CONFIRM LOCATION AND ELEVATION OF EXISTING UTILITIES AT ALL CROSSINGS AND CONNECTIONS PRIOR TO CONSTRUCTION.
7. ENSURE ALL EXISTING SERVICES STAY IN OPERATIONAL CONDITION DURING CONSTRUCTION.
8. A WALKTHROUGH WITH THE CONTRACT ADMINISTRATOR IS REQUIRED AFTER THE LAYOUT IS DONE, ADJUSTMENT OF BOULEVARD AND SIDEWALK ELEVATION MUST BE DONE AS INSTRUCTED BY THE CONTRACT ADMINISTRATOR, THESE ADJUSTMENTS ARE INCIDENTAL TO THE CONTRACT.

#### ENVIRONMENTAL NOTES:

USE BEST MANAGEMENT PRACTICES DURING CONSTRUCTION. ADJUST WORK ACTIVITIES DURING PERIODS OF HEAVY RAIN TO MINIMIZE SEDIMENTS ENTERING THE STORM DRAINAGE SYSTEM. BMP'S TO ADHERE TO:

1. CHECK ALL EQUIPMENT FOR FLUID LEAKS PRIOR TO ENTERING THE WORK AREA.
2. NO EQUIPMENT RE-FUELING TO OCCUR IN THE WORK AREA UNLESS SPILL PROTECTION MEASURES ARE IN PLACE.
3. A SPILL KIT IS TO BE MAINTAINED ON SITE THROUGHOUT THE CONSTRUCTION PERIOD.
4. SURFACE WATER IS TO BE MANAGED WITHIN THE WORK AREA AND TREATED BEFORE DISCHARGED, THIS MAY INCLUDE ON SITE DETENTION AND/OR CULVERT FILTRATION.
5. COVER SOILS IN INCREMENTAL WEATHER ie TARP, HYDRO SEED OR ORGANIC LEAF MULCH.
6. STOCKPILE SOILS AWAY FROM CULVERT INLETS AND ENSURE THEY ARE COVERED IF LEFT FOR MORE THAN 48 HOURS.
7. SURROUND ALL STREET TREES ADJACENT TO PROPOSED SIDEWALK REPLACEMENT WITH SNOW FENCING AT DRIP LINE OR CRITICAL ROOT ZONE OF TREE DURING CONSTRUCTION, CONTACT MUNICIPAL ARBORIST PRIOR TO BEGINNING CONSTRUCTION. REFER TO DETAIL ON SHEET 106.

#### ROADWORKS NOTES:

1. ALL WORK TO CONFORM TO THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (2009 EDITION - PLATINUM) AND ALL COQUITLAM APPROVED REVISIONS, AND TO THE CURRENT EDITION OF THE CITY OF COQUITLAM SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAIL DRAWINGS.
2. CHANGES OF GRADE AND DIRECTION FORMED BY SMOOTH VERTICAL AND HORIZONTAL CURVES.
3. ALL EXISTING MANHOLE FRAMES, WATER AND GAS VALVE BOXES, SURVEY MONUMENT BOXES ETC. TO BE ADJUSTED TO SUIT NEW PAVEMENT GRADE AND CROSS-FALL.

#### SIGNAGE AND PAVEMENT MARKING NOTES:

1. ALL PAVEMENT MARKINGS AND SIGNAGE AS PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA.
2. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC.

THIS DRAWING AND DESIGN IS THE PROPERTY OF McELHANNEY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF McELHANNEY. McELHANNEY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.

THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. THE INFORMATION CONTAINED HEREIN IS PROVIDED AS IS AND IS NOT BE LIABLE FOR ANY LOSSES OR OTHER CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON OR ANY CHANGES MADE TO THIS DRAWING BY ANY THIRD PARTY, INCLUDING ENGINEERS, CONTRACTORS, CONSTRUCTION AGENTS, SUBCONTRACTORS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT McELHANNEY'S PRIOR WRITTEN CONSENT.

INFORMATION ON EXISTING UNDERGROUND FACILITIES MAY NOT BE COMPLETE OR ACCURATE. McELHANNEY, ITS EMPLOYEES AND DIRECTORS ARE NOT RESPONSIBLE NOR LIABLE FOR THE LOCATION OF ANY UNDERGROUND CONDUITS, PIPES, CABLES OR OTHER FACILITIES WHETHER EXISTING OR PROPOSED. CONTRACTORS ARE RESPONSIBLE FOR LOCATING AND DETERMINING THE LOCATIONS OF ALL EXISTING FACILITIES BY HAND DUGGING OR HYDROVAC AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.

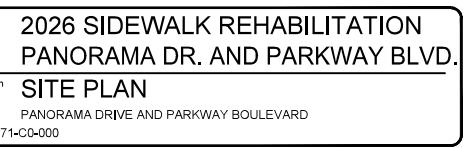
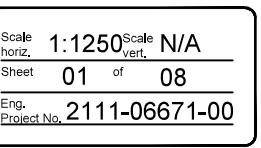


1  
CALL  
1-800-474-6886

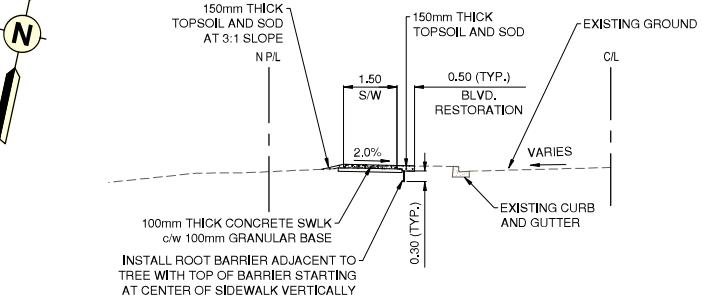
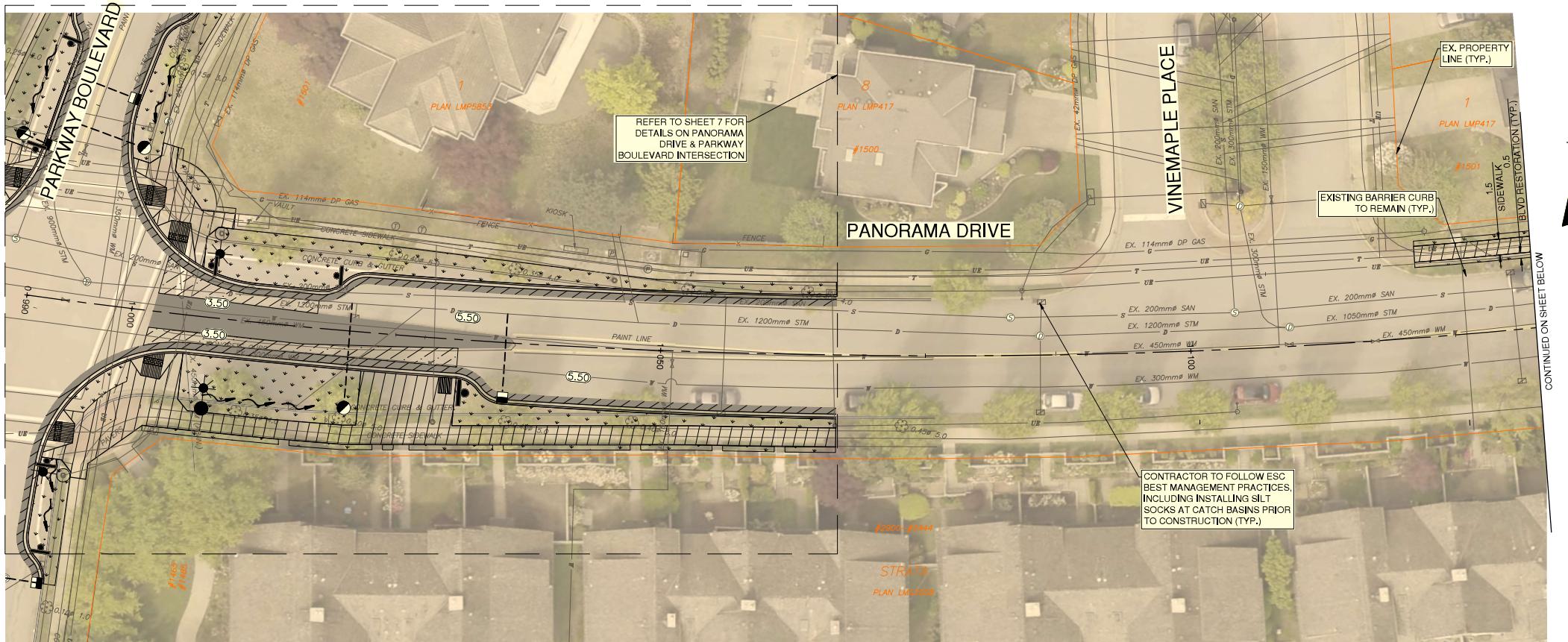
Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole/point pole	Vegetation Conifer
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, post top	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post side	Survey Traverse Hub
Gas main and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Hydro duct, MH	Drainage cleanout	Junction box	Survey Monument

C 2026-01-23	JK	IFT DESIGN SUBMISSION
B 2026-01-07	JK	DETAILED DESIGN SUBMISSION
A 2025-10-29	JK	PRELIMINARY DESIGN SUBMISSION

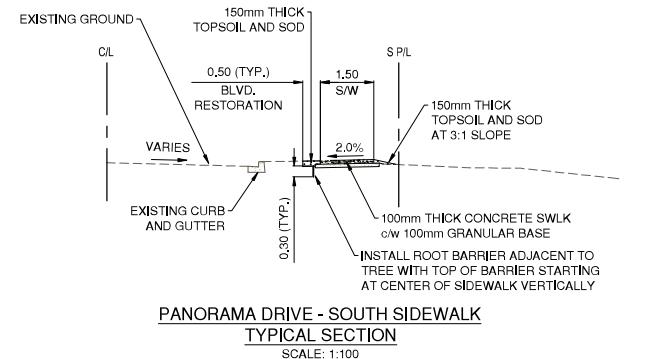
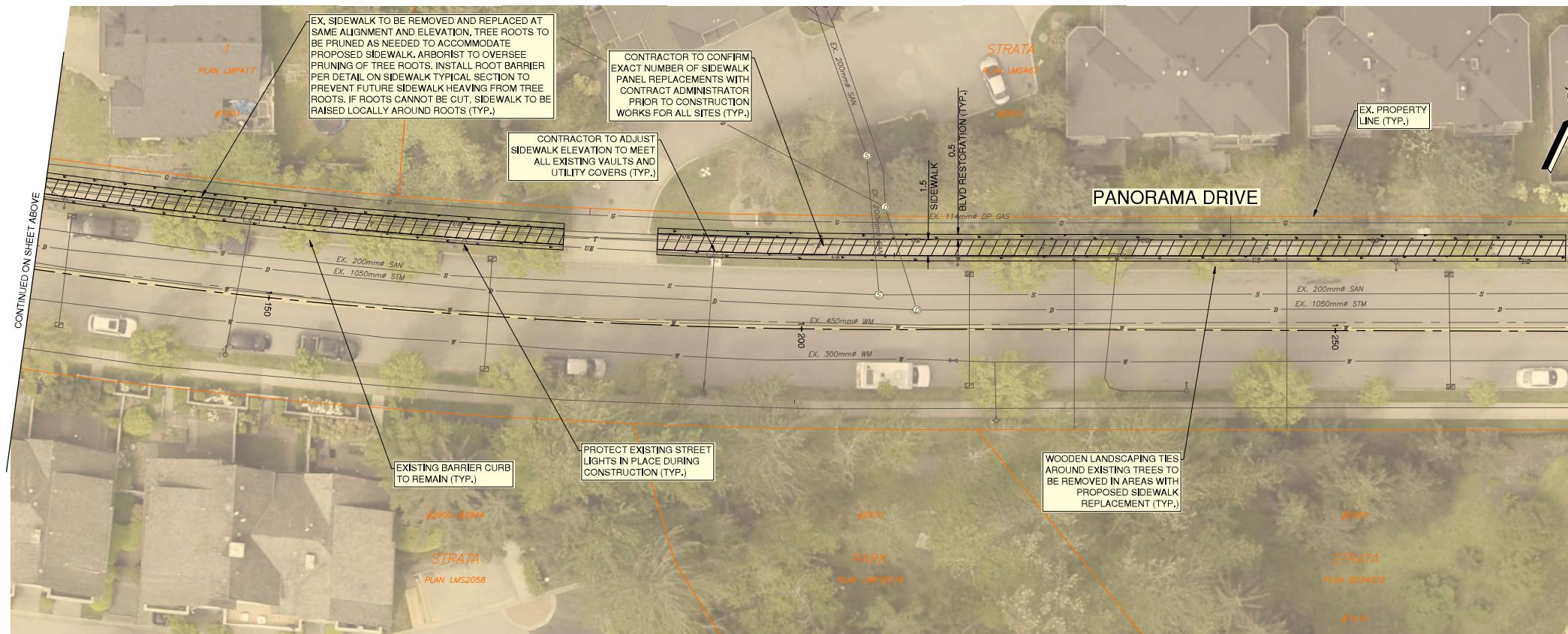
Design by	Date
JK	October 29, 2025
Drawn by	Date
MWJ	October 29, 2025
Checked by	Date
MH	October 29, 2025
Approved by	Date
AG	October 29, 2025
No.	Date
By	Revisions
Eng.	Eng.



Plot Date: January 23, 2026



PANORAMA DRIVE - NORTH SIDEWALK  
TYPICAL SECTION  
SCALE: 1:100



PANORAMA DRIVE - SOUTH SIDEWALK  
TYPICAL SECTION  
SCALE: 1:100



THE DRAWING AND DESIGN IS THE PROPERTY OF McELHANNENY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF McELHANNENY. McELHANNENY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.

THIS DRAWING HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. THE DRAWING IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. McELHANNENY IS NOT RESPONSIBLE FOR THE USE OF THIS DRAWING FOR ANY PURPOSE OTHER THAN AS PROVIDED FOR IN THE CONTRACT DOCUMENTS.

INFORMATION ON EXISTING UNDERGROUND FACILITIES MAY NOT BE COMPLETE OR ACCURATE. McELHANNENY, ITS EMPLOYEES AND DIRECTORS ARE NOT RESPONSIBLE NOR LIABLE FOR THE LOCATION OF ANY UNDERGROUND CONDUITS, PIPES, CABLES OR OTHER FACILITIES WHETHER EXISTING OR PROPOSED. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING THESE FACILITIES. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE PUBLIC AGENCIES WITHOUT McELHANNENY'S PRIOR WRITTEN CONSENT.



1-800-474-6886

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage ditch	Water blowoff	Utility pole/point pole	Vegetation Conifer
Water service	Water service	Utility pole with light	Vegetation Deciduous
Sanitary forcemain	Catch basin, top inlet	Streetlight, post top	Vegetation Shrub
Gas main and valve	Catch basin, side inlet	Streetlight, post	
Hydro duct, MH	Catch basin, round	Comb signal pole	
Drainage service	Comb signal pole	Survey Traverse Hub	
Drainage cleanout	Drainage service	Survey Lead Plug	
Drainage duct, MH	Drainage cleanout	Survey Monument	

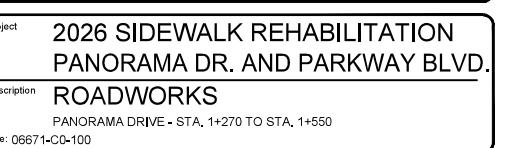
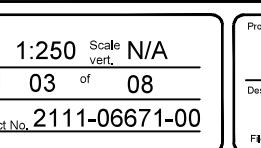
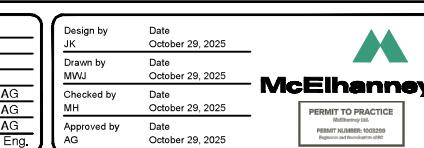
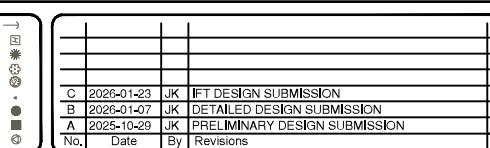
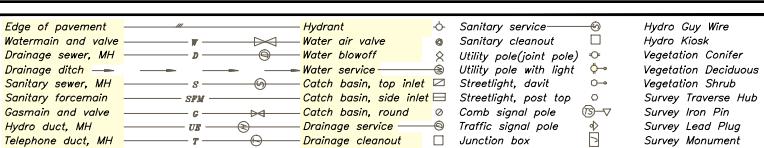
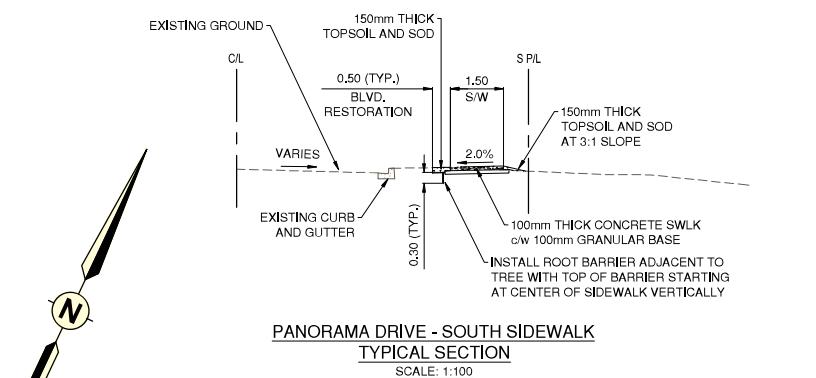
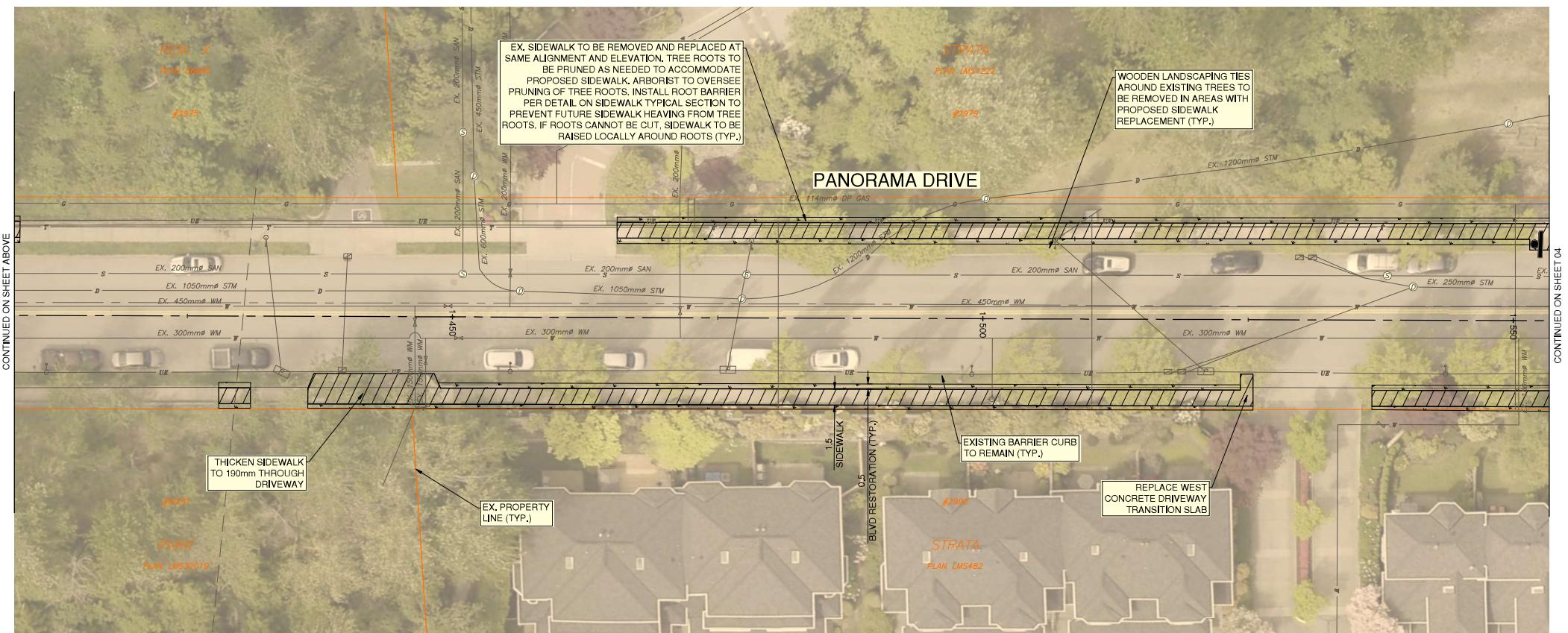
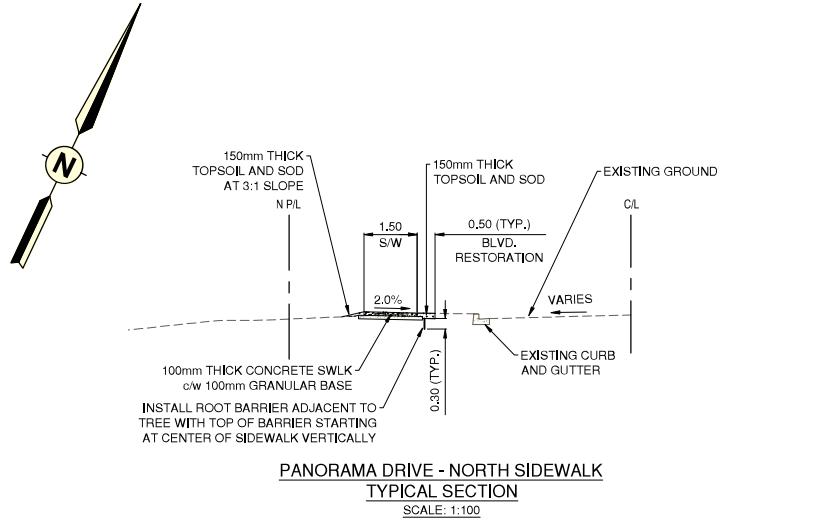
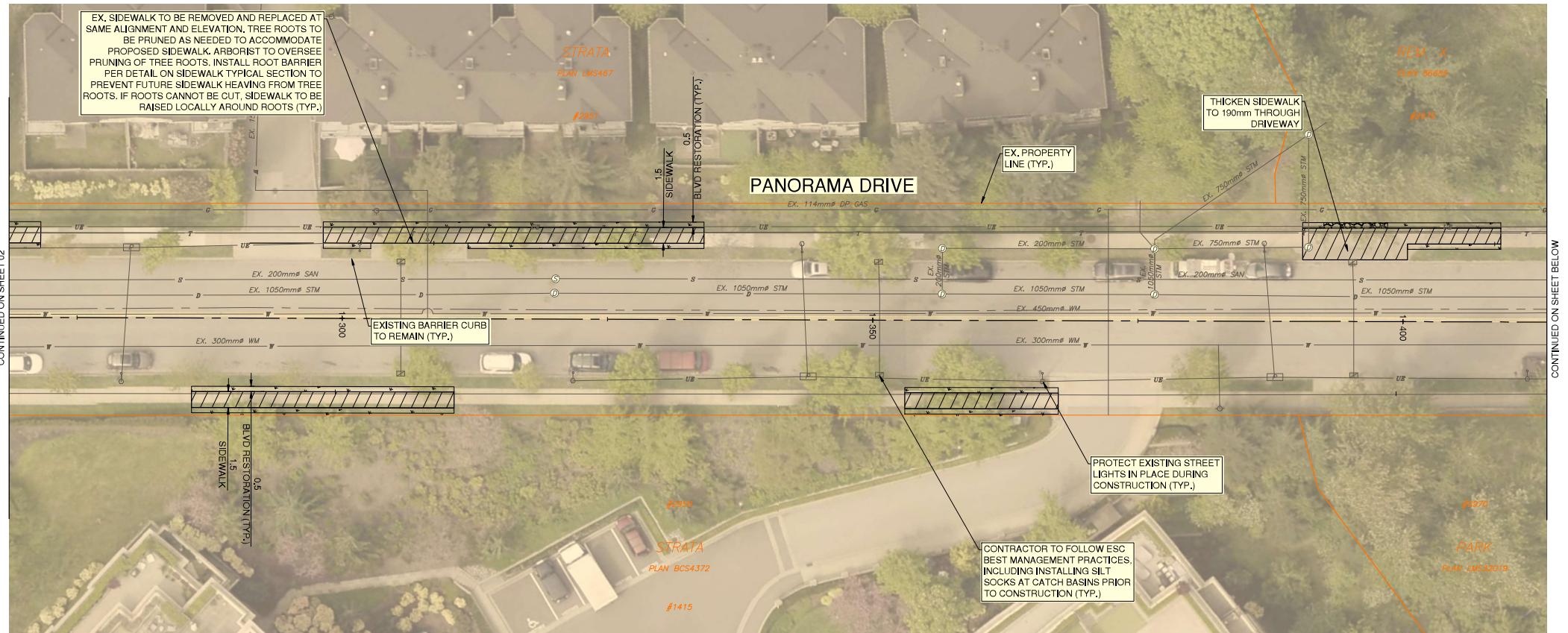
Design by	Date
JK	October 29, 2025
Drawn by	Date
MWJ	October 29, 2025
Checked by	Date
MH	October 29, 2025
Approved by	Date
AG	October 29, 2025
No.	Date
Revisions	Eng.

C 2026-01-23	JK	IFT DESIGN SUBMISSION	AG
B 2026-01-27	JK	DETAILED DESIGN SUBMISSION	AG
A 2025-10-29	JK	PRELIMINARY DESIGN SUBMISSION	AG
		No.	Eng.
		Date	Revisions

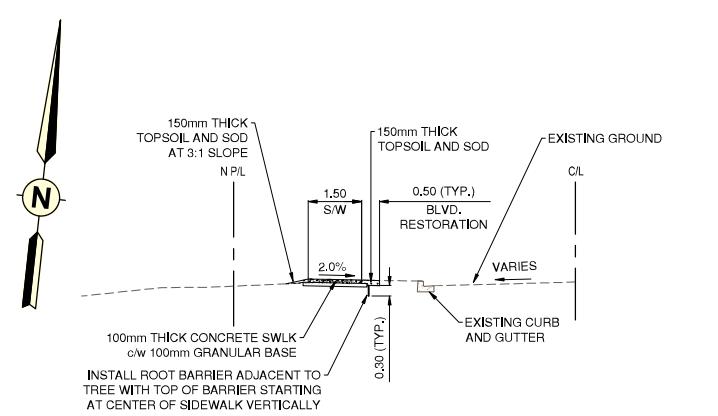
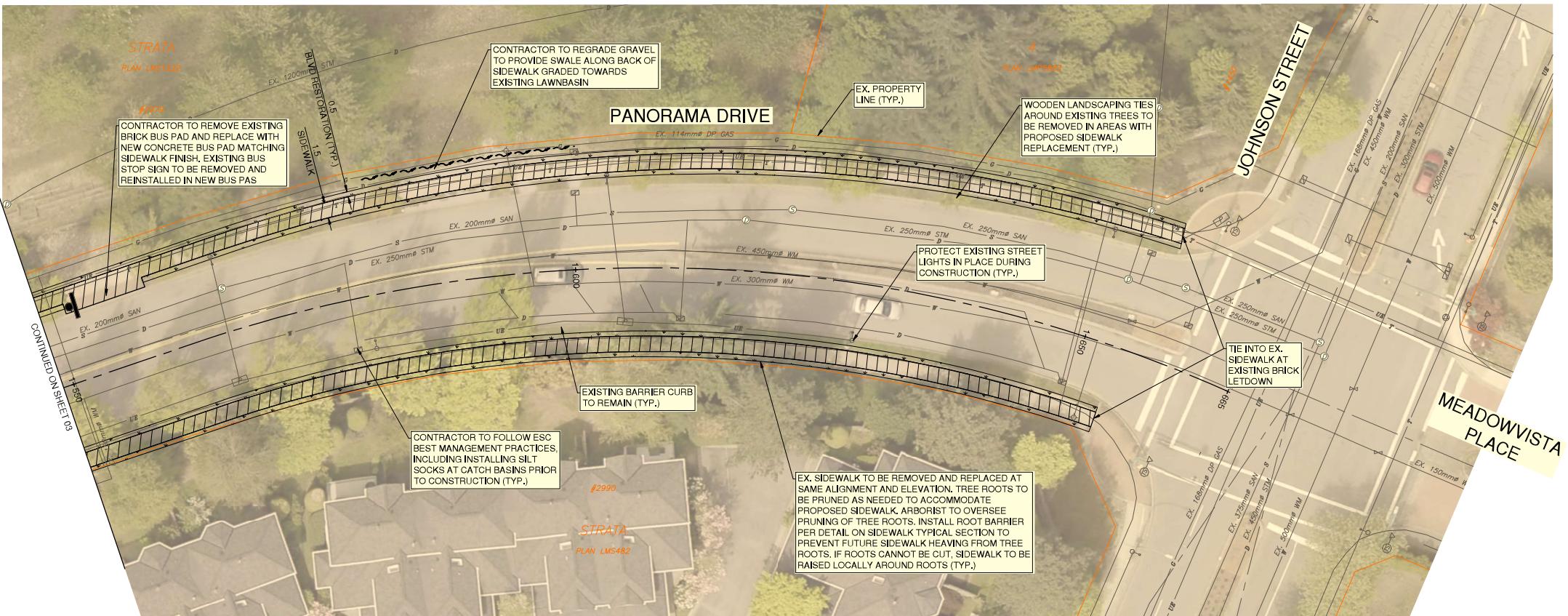


Scale horiz.	1:250	Scale vert.	N/A
Sheet	02	of	08
Eng.	Project No.	2111-06671-00	

Project	2026 SIDEWALK REHABILITATION
Description	PANORAMA DRIVE - STA. D+990 TO STA. 1+270
File	06671-CO-100

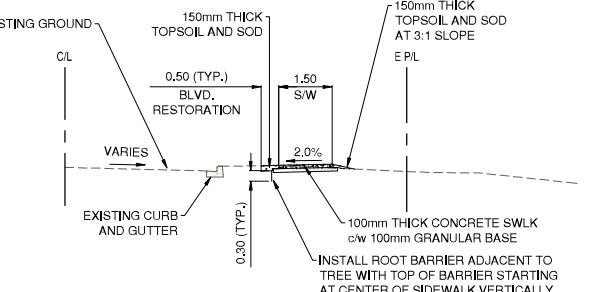
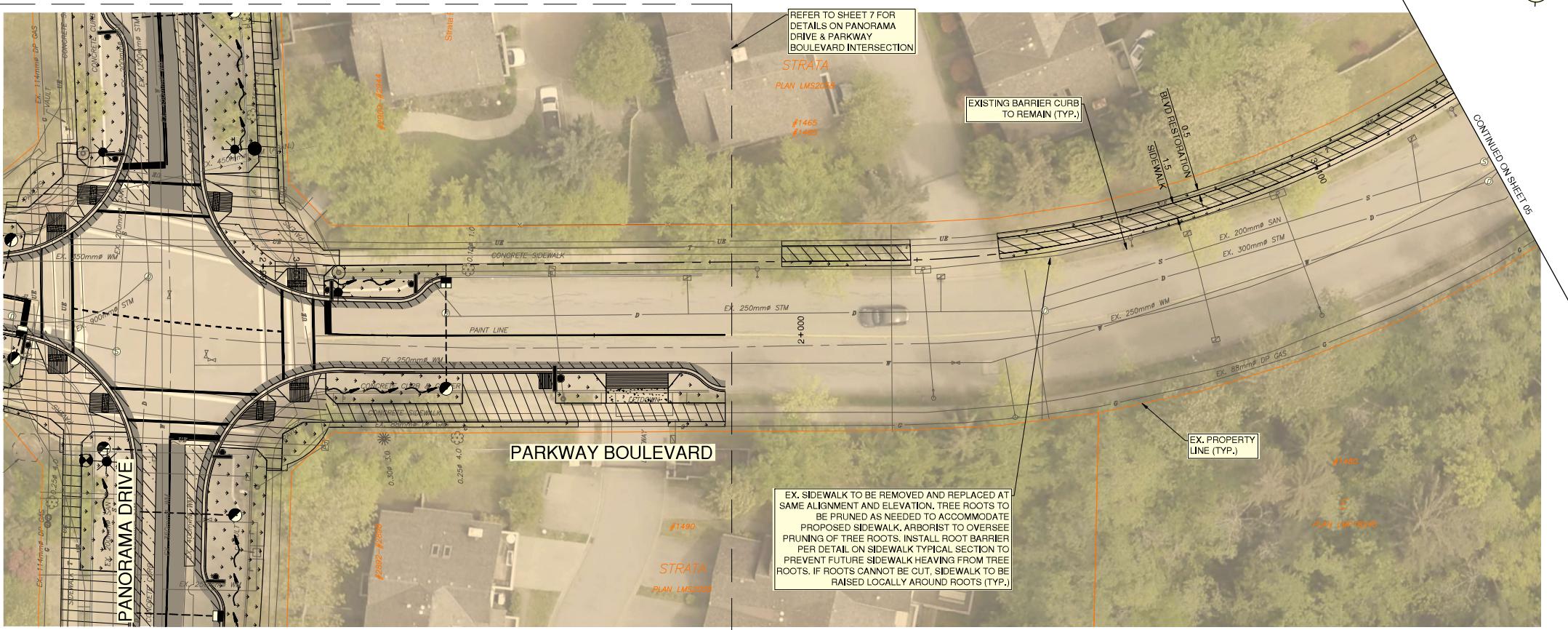


Plot Date: January 23, 2026



PANORAMA DRIVE - NORTH SIDEWALK  
TYPICAL CROSS SECTION

SCALE: 1:100



PARKWAY BOULEVARD - EAST SIDEWALK  
TYPICAL SECTION

SCALE: 1:100



THE DRAWING AND DESIGN IS THE PROPERTY OF MCELHANNAY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF MCELHANNAY. MCELHANNAY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.

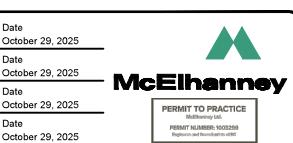
THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. THE DESIGNER IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THIS DRAWING UPON OR ANY CHANGES MADE TO OTHER CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON THIS DRAWING AND DESIGN BY ANY THIRD PARTY, INCLUDING CONTRACTORS, SUBCONTRACTORS, OR OTHER EMPLOYEES OR AGENTS WITHOUT MCELHANNAY'S PRIOR WRITTEN CONSENT.

INFORMATION ON EXISTING UNDERGROUND FACILITIES MAY NOT BE COMPLETE OR ACCURATE. MCELHANNAY, ITS EMPLOYEES AND DIRECTORS ARE NOT RESPONSIBLE NOR LIABLE FOR THE LOCATION OF ANY UNDERGROUND CONDUITS, PIPES, CABLES OR OTHER FACILITIES WHETHER EXISTING OR NEW. CONTRACTORS ARE RESPONSIBLE FOR LOCATING AND PROTECTING THESE LOCATIONS OF ALL EXISTING FACILITIES BY HAND, DUGGING OR HYDROVAC AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.



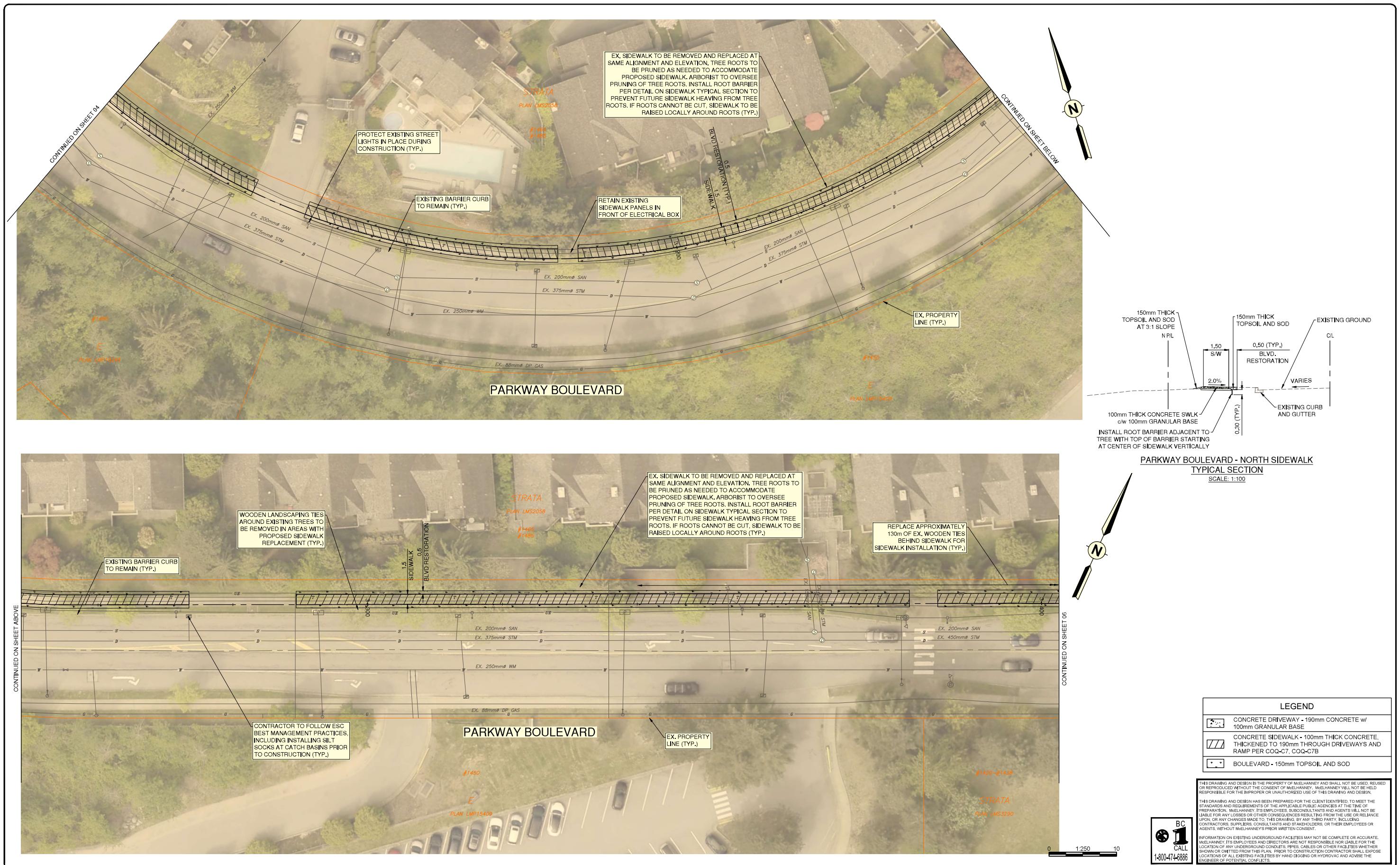
Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage ditch	Water blowoff	Utility pole/point pole	Vegetation Conifer
Sanitary sewer, MH	Water service	Utility pole with light	Vegetation Deciduous
Sanitary forcemain	Catch basin, top inlet	Streetlight, post top	Vegetation Shrub
General service	Catch basin, side inlet	Streetlight, post side	
Hydro duct, MH	Catch basin, round	Comb signal pole	
Hydro duct, MH	Drainage service	Survey Traverse Hub	
	Drainage cleanout	Survey Lead Plug	
	Junction box	Survey Monument	

Design by	Date
JK	October 29, 2025
Drawn by	Date
MWJ	October 29, 2025
Checked by	Date
MH	October 29, 2025
Approved by	Date
AG	October 29, 2025
No.	Date
	By
	Revisions
Eng.	



Scale horiz.	1:250	Scale vert.	N/A
Sheet	04	of	08
Eng.	Project No.	2111-06671-00	
	File No.	06671-CD-100	

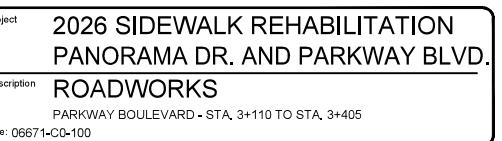
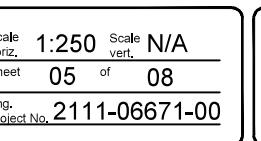
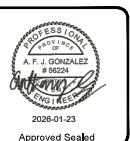
Project	2026 SIDEWALK REHABILITATION PANORAMA DR. AND PARKWAY BLVD.
Description	ROADWORKS
	PANORAMA DRIVE - STA. 1+550 TO STA. 1+685 PARKWAY BOULEVARD - STA. 3+000 TO STA. 3+110

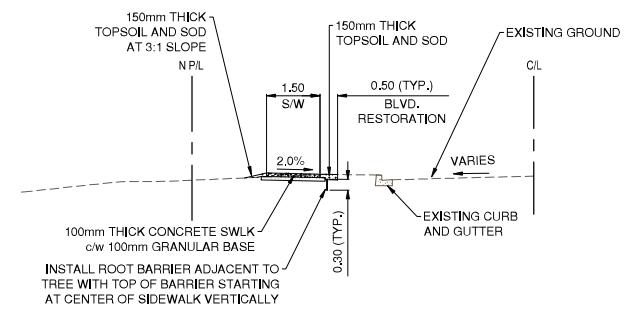
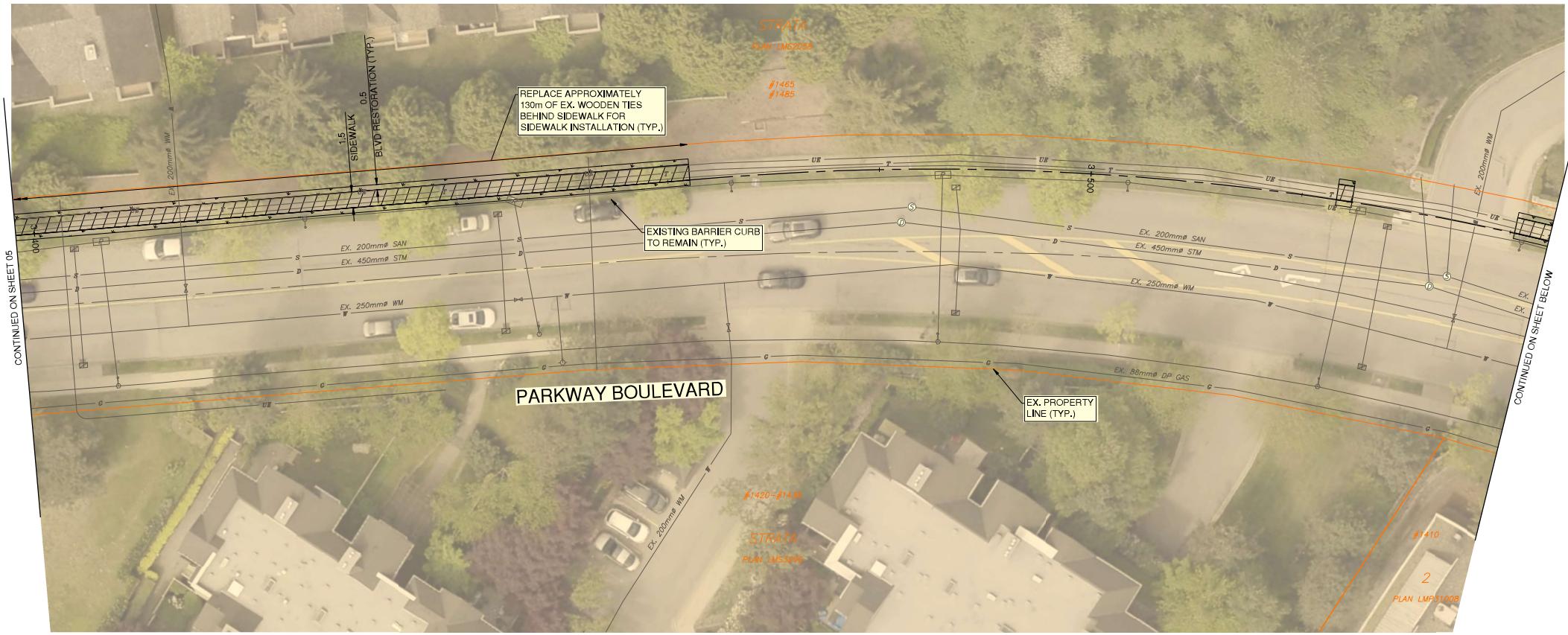


Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole/point pole	Vegetation Conifer
Drainage ditch	Water service	Streetlight, post top	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, post side	Vegetation Shrub
Sanitary foremain	Catch basin, side inlet	Survey Traverse Hub	
Gas main valve	Catch basin, round	Survey Iron Pin	
Hydro duct, MH	Comb signal pole	Survey Lead Plug	
Hydro duct, MH	Drainage service	Survey Monument	
	Drainage cleanout	Junction box	

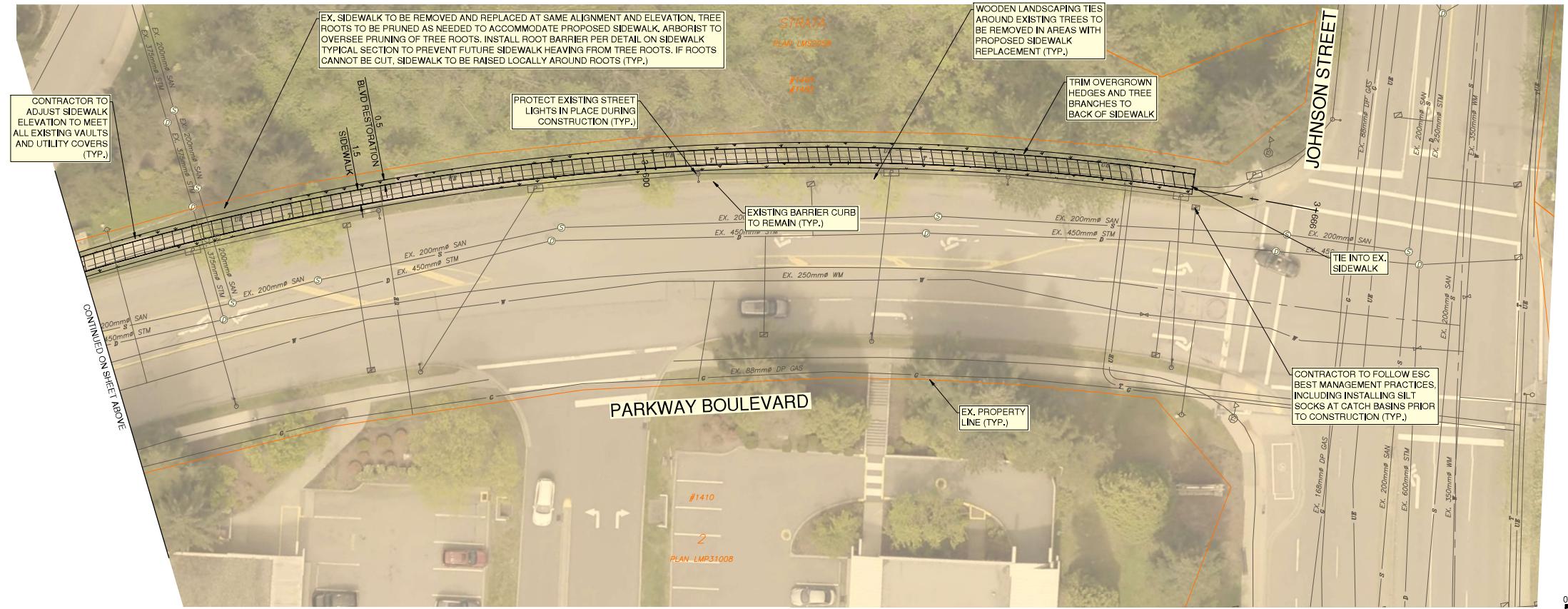
C 2026-01-23	JK	IFT DESIGN SUBMISSION	AG
B 2026-01-07	JK	DETAILED DESIGN SUBMISSION	AG
A 2025-10-29	JK	PRELIMINARY DESIGN SUBMISSION	AG
No.	Date	By	Revisions

Design by	Date
JK	October 29, 2025
Drawn by	Date
MWJ	October 29, 2025
Checked by	Date
MH	October 29, 2025
Approved by	Date
AG	October 29, 2025
Eng.	Eng.





PARKWAY BOULEVARD - NORTH SIDEWALK  
TYPICAL SECTION  
SCALE: 1:100



THE DRAWING AND DESIGN IS THE PROPERTY OF McELHANNEY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF McELHANNEY. McELHANNEY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.  
THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. THE DRAWING AND DESIGN IS NOT TO BE USED FOR ANY PURPOSE WHICH MAY BE UNUSUAL FOR ANY LOSSES OR OTHER CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON OR ANY CHANGES MADE TO THIS DRAWING BY ANY THIRD PARTY, INCLUDING ENGINEERS, CONTRACTORS, CONSTRUCTION SUPERVISORS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT McELHANNEY'S PRIOR WRITTEN CONSENT.  
INFORMATION ON EXISTING UNDERGROUND FACILITIES MAY NOT BE COMPLETE OR ACCURATE. McELHANNEY, ITS EMPLOYEES AND DIRECTORS ARE NOT RESPONSIBLE NOR LIABLE FOR THE LOCATION OF ANY UNDERGROUND CONDUITS, PIPES, CABLES OR OTHER FACILITIES WHETHER EXISTING OR PROPOSED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND USE SERVICES OF AN EXISTING FACILITIES BY HAND DUGGING OR HYDROVAC AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.



Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage ditch	Water blowoff	Utility pole/point pole	Vegetation Conifer
Sanitary sewer, MH	Water service	Utility pole with light	Vegetation Deciduous
Sanitary forcemain	Catch basin, top inlet	Streetlight, post top	Survey Traverse Hub
Gas main valve	Catch basin, side inlet	Streetlight, post top	Survey Joint Pin
Hydro duct, MH	Catch basin, round	Comb signal pole	Survey Lead Plug
Hydro duct, MH	Drainage service	Survey Monument	Survey Monument
	Drainage cleanout	Junction box	

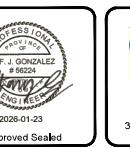
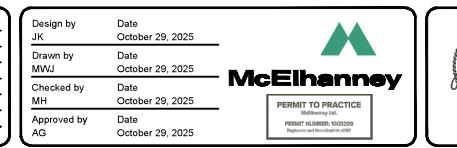
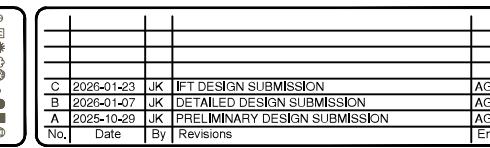
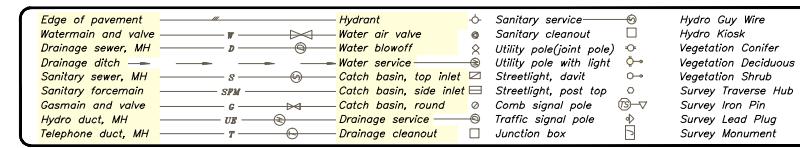
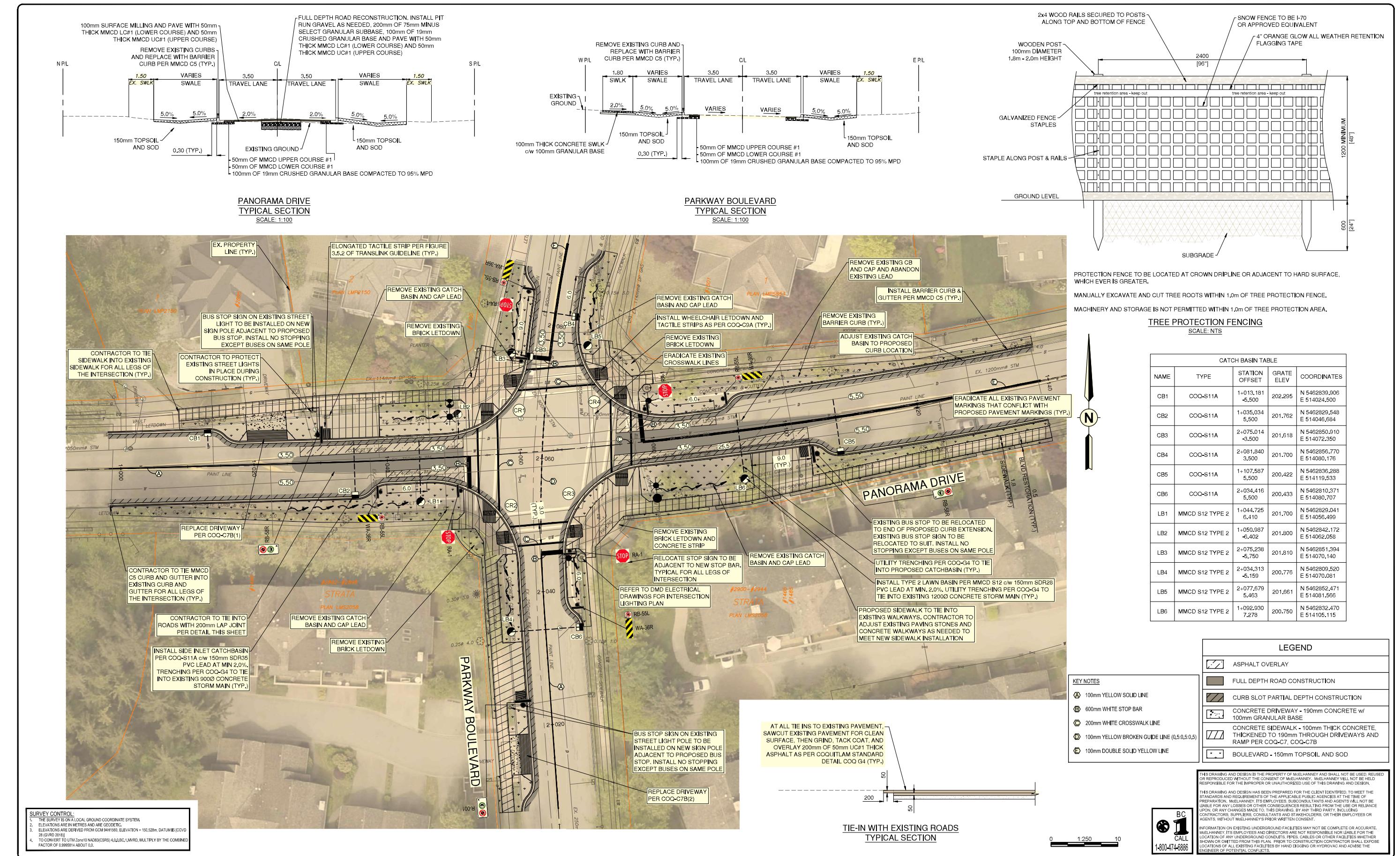
C 2026-01-23	JK	IFT DESIGN SUBMISSION	AG
B 2026-01-07	JK	DETAILED DESIGN SUBMISSION	AG
A 2025-10-29	JK	PRELIMINARY DESIGN SUBMISSION	AG
No.	Date	By	Revisions

Design by	Date
JK	October 29, 2025
Drawn by	Date
MWJ	October 29, 2025
Checked by	Date
MH	October 29, 2025
Approved by	Date
AG	October 29, 2025
Eng.	



Scale horiz.	1:250	Scale vert.	N/A
Sheet	06	of	08
Eng.	Project No.	2111-06671-00	
	File:	06671-CO-100	

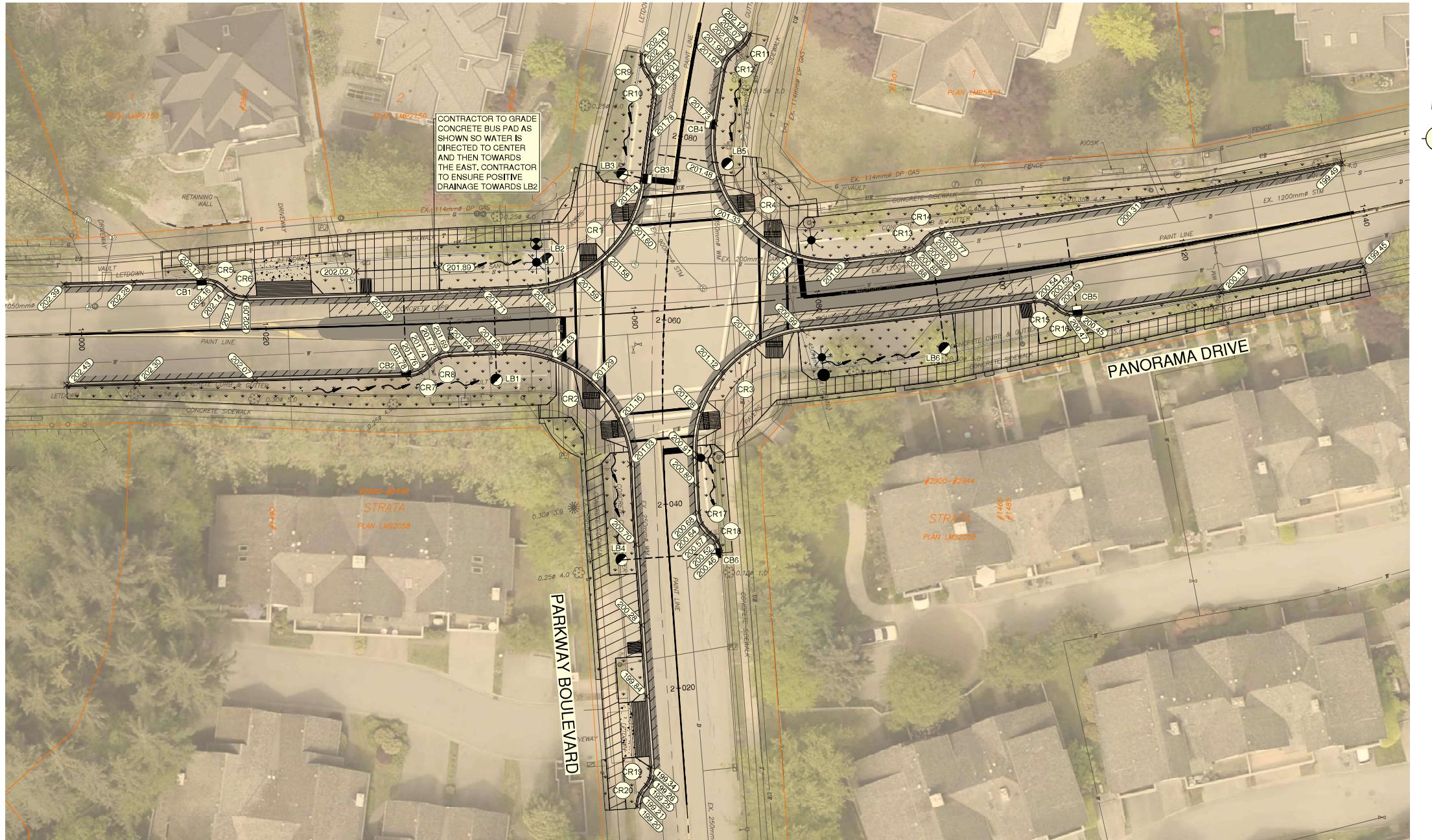
Project	2026 SIDEWALK REHABILITATION
	PANORAMA DR. AND PARKWAY BLVD.
Description	ROADWORKS



**2026 SIDEWALK REHABILITATION  
PANORAMA DR. AND PARKWAY BLVD.  
ROADWORKS**  
PANORAMA DRIVE AND PARKWAY BOULEVARD INTERSECTION  
71-C0-100

NOTES:

- ELEVATIONS BASED ON SURVEY AS REFERENCE. CONTRACTOR TO INSTALL CURB BULGE BASED ON FIELD EX. CURB ELEVATIONS AND MAINTAINING DRAINAGE FROM ROAD CROWN TO CURB GUTTERLINE (TYP.)
- CONTRACTOR TO ENSURE MIN. 0.5% GRADES TOWARDS CATCHBASINS ALONG CURB BULGES SUITED TO TIE IN WITH EXISTING PAVEMENT.



CURB RETURN TABLE						
CURB No.	LENGTH	RADIUS	DELTA	TANGENT	B.C. COORD.	E.C. COORD.
CR1	18.235	13,000	80°22'07"	10,980	N 5462839,154 E 514060,130	N 5462850,677 E 514072,324
CR2	20.595	13,000	90°46'19"	13,176	N 5462819,507 E 514071,154	N 5462832,004 E 514057,503
CR3	19.474	13,000	85°49'50"	12,087	N 5462834,494 E 514089,757	N 5462821,167 E 514078,102
CR4	23.797	13,000	104°52'47"	16,905	N 5462836,874 E 514080,191	N 5462842,048 E 514094,509
CR5	2.523	3,000	48°11'23"	1,342	N 5462838,919 E 514027,066	N 5462838,855 E 514024,802
CR6	2.523	3,000	48°11'23"	1,342	N 5462838,919 E 514027,066	N 5462837,984 E 514029,329
CR7	2.534	3,000	48°23'49"	1,348	N 5462829,558 E 514046,984	N 5462830,641 E 514049,192
CR8	2.512	3,000	47°58'59"	1,335	N 5462831,723 E 514051,379	N 5462830,641 E 514049,192
CR9	2.519	3,000	48°06'43"	1,339	N 5462864,446 E 514072,305	N 5462862,080 E 514072,925
CR10	2.496	3,000	47°40'27"	1,325	N 5462859,737 E 514073,548	N 5462862,080 E 514073,925
CR11	2.386	3,000	45°34'40"	1,260	N 5462864,747 E 514083,560	N 5462866,617 E 514083,560
CR12	2.570	3,000	49°05'32"	1,370	N 5462864,747 E 514082,560	N 5462862,697 E 514081,143
CR13	2.584	3,000	49°20'42"	1,378	N 5462842,735 E 514100,596	N 5462844,030 E 514102,740
CR14	2.532	3,000	48°21'25"	1,347	N 5462845,318 E 514104,833	N 5462844,030 E 514102,740
CR15	2.560	3,000	48°53'20"	1,364	N 5462836,863 E 514117,182	N 5462836,863 E 514114,813
CR16	2.560	3,000	48°53'11"	1,364	N 5462836,863 E 514117,182	N 5462836,119 E 514119,551
CR17	2.606	3,000	49°45'54"	1,391	N 5462814,647 E 514078,406	N 5462812,428 E 514079,610
CR18	2.545	3,000	48°36'07"	1,355	N 5462812,428 E 514079,610	N 5462810,270 E 514080,810
CR19	2.405	3,000	45°55'31"	1,271	N 5462784,810 E 514072,560	N 5462787,024 E 514073,320
CR20	2.407	3,000	45°58'43"	1,273	N 5462782,593 E 514071,801	N 5462784,810 E 514072,560

LEGEND	
<input checked="" type="checkbox"/>	ASPHALT OVERLAY
<input type="checkbox"/>	FULL DEPTH ROAD CONSTRUCTION
<input checked="" type="checkbox"/>	CURB SLOT PARTIAL DEPTH CONSTRUCTION
<input type="checkbox"/>	CONCRETE DRIVEWAY - 190mm CONCRETE w/ 100mm GRANULAR BASE
<input type="checkbox"/>	CONCRETE SIDEWALK - 100mm THICK CONCRETE, THICKENED TO 190mm THROUGH DRIVEWAYS AND RAMP PER COQ-C7, COQ-C7B
<input type="checkbox"/>	BOULEVARD - 150mm TOPSOIL AND SOD

SURVEY CONTROL:  
1. ELEVATIONS ARE IN METRES AND ARE GEODETIC.  
2. ELEVATIONS ARE DERIVED FROM GCM 84H560. ELEVATION = 150.528m DATUM IS CGVD 28 (GVID 2018).  
3. TO CONVERT TO UTM, ZONE 11N NAD83 (CSRS) & WGS84, MULTIPLY BY THE COMBINED FACTOR OF 0.9999814 ABOUT 0.5.

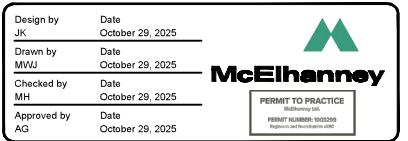
THIS DRAWING AND DESIGN IS THE PROPERTY OF MCELHANNAY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF MCELHANNAY. MCELHANNAY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.  
THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. MCELHANNAY IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THIS DRAWING UPON OR AFTER THE DATE OF THIS DRAWING. BY ANY THIRD PARTY, INCLUDING ENGINEERS, CONTRACTORS, SUBCONTRACTORS, OR OTHER CONSULTANTS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT MCELHANNAY'S PRIOR WRITTEN CONSENT.  
INFORMATION ON EXISTING UNDERGROUND FACILITIES MAY NOT BE COMPLETE OR ACCURATE. MCELHANNAY, ITS EMPLOYEES AND DIRECTORS ARE NOT RESPONSIBLE NOR LIABLE FOR THE LOCATION OF ANY UNDERGROUND CONDUITS, PIPES, CABLES OR OTHER FACILITIES WHETHER EXISTING OR NEW. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND NOTIFYING OWNERS OF THESE LOCATIONS OF ALL EXISTING FACILITIES BY HAND DIGGING OR HYDROVAC AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.



BC  
1  
CALL  
1800-474-6886

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage ditch	Water blowoff	Utility pole/point pole	Vegetation Conifer
Sanitary sewer, MH	Water service	Utility pole w/ light	Vegetation Deciduous
Sanitary foremain	Catch basin, top inlet	Streetlight, post top	Vegetation Shrub
Comb signal valve	Catch basin, side inlet	Survey Traverse Hub	Survey Traverse Hub
Hydro duct, MH	Drainage service	Comb signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

Design by	Date
JK	October 29, 2025
Drawn by	Date
MWJ	October 29, 2025
Checked by	Date
MH	October 29, 2025
Approved by	Date
AG	October 29, 2025
No.	Revisions
C 2026-01-23	JK IFT DESIGN SUBMISSION
Date	By
Eng.	Eng.



Scale horiz. 1:250 Scale vert. N/A  
Sheet 08 of 08  
Eng. Project No. 2111-06671-00  
File: 06671-C0-150

Project 2026 SIDEWALK REHABILITATION  
PANORAMA DR. AND PARKWAY BLVD.  
ROADWORKS - SPOT ELEVATIONS  
Description PANORAMA DRIVE AND PARKWAY BOULEVARD INTERSECTION  
File: 06671-C0-150

#### 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 (ON NEWEST VERSION).
2. THE CITY OF COQUITLAM HAS DISTINCT AREAS, SUCH AS AUSTIN HEIGHTS STREETSCAPES STANDARDS, BURQUITLAM-LOUGHED NEIGHBOURHOOD PLAN, MAILLARDVILLE, ETC. THESE DESIGNS MAY HAVE AREA DESIGN REQUIREMENTS WHICH MAY EXCEDE NOTE 1 ABOVE.
3. THE DESIGN ENGINEERS AND CONTRACTORS SHALL REFER TO COQUITLAM RECORD DRAWINGS, FOR ALL CITY OF COQUITLAM 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. THESE UTILITIES DO NOT INCLUDE FORTIS, BC HYDRO, SHAW OR TELUS INFRASTRUCTURES.
4. BCOnCall CALL BEFORE YOU DIG. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (FORTIS, BC HYDRO, SHAW AND TELUS) ARE SHOWN IN APPROXIMATIONS ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNERS 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.
5. PRIOR TO STREET LIGHT BASE INSTALLATIONS, THE CONTRACTOR SHALL ENSURE THAT ALL STREET LIGHT POLES, FIXTURES AND RELATED EQUIPMENT MEETS OR EXCEEDS 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 DESIGN ENGINEERS AND CITY OF COQUITLAM.
6. THE CONTRACTOR SHALL NOTIFY PROVINCIAL AND CITY OF COQUITLAM INSPECTORS 24 HOURS PRIOR TO COMMENCEMENT OF UNDERGROUND ELECTRICAL WORK.
7. THE CIVIL/ELECTRICAL CONTRACTOR SHALL OBTAIN PERMITS FROM THE CITY OF COQUITLAM, AND FROM TECHNICAL SAFETY BC (WAS BC SAFETY AUTHORITY).
8. 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.
9. ALL STREET LIGHT WIRING SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH CSA, CANADIAN ELECTRICAL CODE, PROVINCE OF BRITISH COLUMBIA AMENDMENTS AND ALL BULLETIN ISSUED BY TECHNICAL SAFETY BC (WAS BC SAFETY AUTHORITY), INCLUDING THE PROVINCIAL ELECTRICAL INSPECTION AMENDMENTS.
10. HYDRO SERVICE DIP CONNECTIONS SHALL BE PER BC HYDRO STANDARDS OR PER MMCD 2009. 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.
11. MINIMUM DEPTH FOR UNDERGROUND CONDUIT DIPPING SHALL BE 600mm (MINIMUM) BELOW BOULEVARD AND SIDEWALKS, AND 900-mm (MINIMUM) BEHIND ASPHALT. PER CITY OF COQUITLAM SUBDIVISION AND DEVELOPMENT SERVICING BYLAWS.
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. UNLESS OTHERWISE INDICATED, ALL HARDWARE SHALL BE STAINLESS STEEL.
15. NEW STREET LIGHTING DESIGNS SHALL ONLY BE 120/240V.
16. UNLESS OTHERWISE INDICATED: ALL POLES, ARMS, SERVICE BASES, HAND ACCESS COVERS, SECURITY COVERS, AND RE-ENFORCED STEEL BACKING BARS, SHALL BE GALVANIZED, PRIMED AND POWDER-COATED.
- a. CITY OF COQUITLAM HAS MULTIPLE COLOURS: RAL6028 GREEN, RAL7024 GRAPHITE GREY, RAL8014 BROWN, RAL9005 BLACK, ETC. CONSULT THE PLANS FOR SPECIFIC COLOURS.
17. ALL STREET LIGHT HAND-HOLE COVERS SHALL BE PROVIDED WITH ROBUST REINFORCED SECURITY COVERS, REINFORCED U-SHAPED REINFORCED BACKER BARS AND REVERSE THREADED SECURITY BOLTS (FLOWER HEAD PREFERRED). TWO MANUFACTURERS OFFER TYPICAL SECURITY DEVICES:
- a. NOVA POLE AND WEST COAST ENGINEERING OFFER A REINFORCED COVER, REVERSE THREADED SECURITY BOLT (FLOWER HEAD #2), AND ROBUST REVERSE THREADED BACKER BAR.
- b. THE ABOVE ITEMS DO NOT APPLY TO SPECIALTY POLES, SUCH AS PHILLIPS, LUMEC, QUATTRO, ETC. CONSULT THOSE COMPANIES FOR THEIR SECURITY MEASURES.
- c. THE ROUND BULLDOG LOCKS AND WIRE SENTRY PRODUCTS ARE NO LONGER APPROVED FOR USE IN CITY OF COQUITLAM
18. ALL THREADED BOLTS, NOT USED FOR ELECTRICAL CONNECTIONS, SHALL HAVE ANTI-SEIZE COMPOUND APPLIED. THIS ALSO APPLIES TO SECURITY BOLTS NOTED ABOVE.
19. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE TYPE RW90, STRANDED COPPER, INSULATED, AND COLOURS PER STREET LIGHT PLANS.
20. PHOTO ELECTRIC CONTROL (PEC) SHALL ONLY BE SOLID-STATE DESIGN, WITH ELECTROMECHANICAL CONTACTS.
21. 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, IN TO THE ELECTRICAL PANEL. BUNDLED SEPARATE FROM THE STREET LIGHTING CONDUCTORS.
22. LUMINAIRES SHALL HAVE 7 PIN RECEPTACLES AND ADJUSTABLE / SELECTABLE DRIVERS.
23. 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 PEC CONDUCTORS.
24. LUMINAIRES ON BLACK CONDUCTOR ARE IDENTIFIED WITH A 'B' DESIGNATION NEXT TO THE LUMINAIRES.
25. LUMINAIRES ON RED CONDUCTOR ARE IDENTIFIED WITH AN 'R' DESIGNATION NEXT TO THE LUMINAIRES.
26. STREET LIGHTING AND PEC CONDUCTORS SHALL NOT BE SPLICED WITH WIRE NUTS IN THE POLE (HAND HOLE AND LUMINAIRE ACCEPTABLE).
27. EACH LUMINAIRE SHALL BE PROVIDED WITH A TRON HEB-2A FUSE-HOLDER C/W 2 L-TYPE INSULATING BOOTS, OR PRE-APPROVED EQUIVALENT. THE FUSE-HOLDER SHALL BE ACCESSIBLE IN THE HAND-HOLE COVER.
28. EACH FUSE HOLDER SHALL BE PROVIDED WITH ONE 10-AMPERE BUSS KTK OR MERSEN ATM TYPE FUSE (600V), WIRED IN THE LIVE CONDUCTOR(S). THE FUSE HOLDER SHALL BE ACCESSIBLE FROM THE HAND-HOLE ACCESS, OR JUNCTION BOX.
29. 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.
30. THE BOND STUD OPENING SHALL BE AT THE REAR OF THE POLE AND SHALL NOT BE ON THE FLANGE OF THE ACCESS HOLE OPENING.
31. 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.
32. THE BONDING STUD IN EACH POLE SHALL COMPRIS OF ONE 3/8-16 BOLT 1.5-INCHES LONG, ONE SLIT LOCK WASHER, AND TWO HEX NUTS. THE SLIT LOCK WASHER SHALL BE BURIED INTO 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.
33. ALL POLES SHALL BE BONDED WITH A NO. 8 RW90 GREEN BONDING CONDUCTOR. THE CONTRACTOR SHALL SUPPLY A 4-WAY PIGTAIL SPLICE TO THE POLE BOND, AND WITH A RING LUG TERMINAL BENEATH THE BONDING HARDWARE.
34. ALL LARGE GAUGE CONDUCTORS (#8 OR LARGER) USING MULTIPLE CONDUCTOR SPLICES, WHICH MAY EXCEED THE LARGER WIRE NUT SIZES, SHALL UTILIZE SPLIT BOLT HARDWARE, DUCT SEALANT, AND WITH WEATHER-RESISTANT / WATER-PROOF CONNECTION METHODS. TO ENSURE WATER WILL RUN OFF THE CONNECTIONS, ALL CONNECTIONS SHALL BE ORIENTED UPWARDS WITHIN EACH POLE OR JUNCTION BOX. THE STANDARD HOUSE-HOLD 'WIRE NUT IS NOT WATER-PROOF'.
35. ALL LARGE GAUGE (#8 OR LARGER) CONDUCTORS, SPLICES AND CONNECTIONS, WITHIN JUNCTION BOXES OR HAND ACCESS OPENINGS, SHALL BE SEALED WITH TAPE CONSISTING OF BISHOP BI-SEAL PHILLIPS ROTRUND OR 3M SELF HOLDING TAPE, COVERED WITH PVC TAPE AND DIPPED IN 3M SCOTCHCOAT. OR PRE-APPROVED EQUIVALENT.
36. WHERE POSSIBLE, JUNCTION BOXES SHALL BE AVOIDED. JUNCTION BOXES PROVIDE AN EASY ACCESS FOR WIRE THEFT. HOWEVER, IF JUNCTION BOXES ARE REQUIRED FOR 3 OR MORE CONDUITS/CONNECTIONS, CITY OF COQUITLAM HAS STANDARDIZED ON DUO-MOLD JUNCTION BOXES. PREFERRED SIZE IS 11X18X24, 2 SECTIONS DEEP (MINIMUM), WITH PENTA BOLTS. OTHER SIZES MAY BE REQUIRED PER THE DESIGN PLANS.
37. JUNCTION BOXES IN SOFT BOULEVARD (GRASS, SOIL, ETC.), REQUIRES A 200mm WIDE BY 150mm DEEP CONCRETE SUPPORT RING, WITH REBAR, TO HELP SUPPORT AND PROTECT THE JUNCTION BOX FROM LAWN MOWERS, ETC.
38. 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 ALL CONNECTIONS SHALL BE ORIENTED UPWARDS, AND TO BE HELD IN PLACE BY TIE-WRAPS.
39. 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 WITH STAINLESS STEEL HARDWARE. THE CONTRACTOR SHALL SUPPLY A PIGTAIL SPLICE FROM THE INTERNAL BONDING CONDUCTORS TO THE METALLIC LID BOND.
40. 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 OR MERSEN ATM -TYPE FUSE, WIRED IN THE LIVE CONDUCTOR(S). FOR 240V SERVICES, ONE FUSE SHALL BE IN EACH LIVE CONDUCTOR.
41. 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.
42. WIRING CONNECTIONS, SPLICES AND FUSE-HOLDERS IN JUNCTION BOXES SHALL BE KEPT OUT OF WATER.
43. ALL CONDUITS SHALL BE PROVIDED WITH A NYLON PULL LINE CAPS SHALL HOLD THE NYLON CORD IN PLACE.
44. EMPTY CONDUITS / CONDUIT ONLY (CO) SHALL BE PROVIDED WITH NYLON FULL CORDS, KEPT IN PLACE WITH CAPPED ENDS (NOT GLUED).
45. WATER OR OTHER OBSTRUCTIONS ARE NOT PERMITTED IN CONDUITS. CONDUITS WITH WATER OR OTHER OBSTRUCTIONS SHALL BE BLOWN CLEAR.
46. STREET LIGHT BASE FLANGES SHALL BE LEVEL ON TWO HORIZONTAL AXES.
47. STREET LIGHT BOLTS SHALL HAVE COLOUR-CODED NUT CAPS, TO MATCH THE POLE COLOUR.
48. PER COQUITLAM SUBDIVISION BYLAWS, MINIMUM SPACING BETWEEN STREET LIGHTS AND:

  - a. TREES SHALL BE 6-METERS (TO THE CANOPY)
  - b. KIOSKS SHALL BE 3M
  - c. DRIVEWAYS SHALL BE 2-METERS (EXCLUDING THE FLARE)

49. IT SHALL BE THE CONTRACTORS / DEVELOPERS RESPONSIBILITY TO SUBMIT THE ELECTRICAL PERMITS TO THE ASSIGNED COQUITLAM CIVIL/FIELD INSPECTOR.
50. COQUITLAM TRAFFIC OPERATIONS STAFF (OR ASSIGNED) MAY INSPECT THE INSTALLATIONS AND PROVIDE A DEFICIENCY LIST (AS NECESSARY). THE ELECTRICAL COMPANY SHALL PROVIDE THEIR ELECTRICAL PERMIT TO CITY OF COQUITLAM, TRAFFIC OPERATIONS STAFF, TO ISSUE AN ELECTRICAL CONNECTION REQUEST TO BC HYDRO.
51. 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.
52. JUNCTION BOXES (IF USED), TOPS SHALL BE LEVEL ON 2 AXIS.

#### CONCRETE BASE NOTES

1. THE CONCRETE BASES SHALL BE PER MMCD 2019 STANDARDS AND PLANS, PROVIDED WITH APPROPRIATE CONDUITS PER ENGINEERING REQUIREMENTS.
2. THE CONCRETE BASE SHALL NOT BE FORMED ONSITE, AND SHALL NOT BE FORMED BY THE ELECTRICAL CONTRACTOR. THE CONCRETE BASE SHALL BE PROVIDED FROM A PRECAST COMPANY, SUCH AS PRECAST, ARMTEC, LANGLEY CONCRETE, ETC.
3. CONCRETE BASE TOPS SHALL BE 5cm (~2.0-INCHES) ABOVE FINAL GRADE.
4. CONCRETE BASES AND JUNCTION BOXES (IF USED) TOPS SHALL BE LEVEL ON TWO HORIZONTAL AXES.
5. STREETLIGHT BOLTS SHALL HAVE COLOUR-CODED NUT CAPS.
6. 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 ONE 35mm AND TWO 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 ORIENTED SUCH THAT THE SERVICE CONDUIT (SC) IS ALIGNED TO THE PROTECTED AREA WITHIN THE ELECTRICAL PANEL. 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. WHEN THE CONCRETE BASE IS TO BE INSTALLED, OUR CITY OF COQUITLAM CIVIL INSPECTOR SHALL BE CONTACTED, WITH 24 HOURS ADVANCE NOTIFICATION TO ATTEND, TO CONFIRM COMPLIANCE TO CITY OF COQUITLAM REQUIREMENTS.
  - f. THE CIVIL AND/OR 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.
  - g. CONCRETE BASES WITH MORE THAN 2 CONDUITS SHALL BE NOTED ON THE PLANS. AS AN EXAMPLE, 'THIS BASE HAS (X) CONDUITS'.
  - h. CONCRETE BASES SHALL BE PROVIDED WITH A V-GROOVE TO DISPERSE STANDING WATER. IF THE 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 ARE NOT ACCEPTABLE.

#### 3. PER DESIGN REQUIREMENTS, LED LUMINAIRES MAY BE:

- a. AMERICAN ELECTRIC LED LUMINAIRE ATB-SERIES.
- b. LRL, NX7-SERIES
- c. LUMEC CANDI 1 OR CAND2 WITH LED FIXTURES
- d. LUMEC CAPELLA OR DOMUS SERIES LUMINAIRES
- e. LUMEC TR20 LED STYLE LUMINAIRES
- f. CREE, LITHONIA, LUMCA, ETC.
- g. LUMINAIRES TO HAVE SHATTER-PROOF POLYCARBONATE REFRACTORS
- h. OTHER MANUFACTURERS PER SPECIFICATIONS OR AS NOTED ON THE PLANS.
- i. LED FIXTURE COLOURS AND WATTAGES DETERMINED BY THE ENGINEER.
- j. ALL LUMINAIRES SHALL BE LED.
5. 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.
6. EACH ROADWAY & MULTUSE PEDESTRIAN/MUP LIGHTING SHALL BE PROVIDED WITH A 7-CONTACT PEC SOCKET, PRE-INSTALLED BY THE LUMINAIRE MANUFACTURER (FUTURE SMART LIGHTING PROGRAM).
7. PEC CONDUCTORS SHALL BE #12 RW90. COLOURS: RED, BLACK AND WHITE. THE PEC CONDUCTORS SHALL BE A CONTINUOUS RUN, WITHOUT SPLICES, TO THE PHOTO ELECTRIC CONTROL (PEC).
8. PHOTO ELECTRIC CONTROL (PEC) SHALL ONLY BE SOLID-STATE DESIGN, WITH ELECTROMECHANICAL CONTACTS. 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.

#### GROUND MOUNTED OR POLE-MOUNTED RECEPTACLES

1. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE TYPE RW90, STRANDED COPPER, INSULATED, SIZED AND COLOUR CODED PER DRAWINGS.
2. DECORATIVE / SEASONAL RECEPTACLES SHALL BE:

  - a. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE, LEVITON OUTDOOR GRADE WEATHER-RESISTANT / TAMPER RESISTANT, 15A @ 125V, WITH LED INDICATOR, BEIGE, WHITE OR BLACK, OR PRE-APPROVED EQUIVALENT.
  - b. MOUNTED WITHIN A NON-METALLIC FS-TYPE BOX (IF WITHIN 8-FEET OF GRADE)
  - c. PROVIDED WITH SPRING LOADED COVER PLATES.
  - d. APPLICATION IS DEPENDENT UPON DESIGN PLANS.

3. \*\*\*RECEPTACLES ATTACHED TO TREES SHALL BE ADVISED \*\*\*
4. HOWEVER, IF TREE RECEPTACLES ARE MANDATORY, THEY SHALL BE PROVIDED WITH 50mm RPVC CONDUITS FROM THE JUNCTION BOX OR SERVICE BOX UP TO THE FINAL GRADE AT THE BASE OF THE TREE. THE 50mm RPVC CONDUIT SHALL BE LOOSELY ATTACHED TO A MOUNTING POINT (STEEL POST, SMALL BOLLARD, WOOD POST, ETC.). REFER TO CITY OF COQUITLAM SUPPLEMENTAL DRAWING SS-E7.20. THE STANDARD OF PROVIDING SURPLUS CABLE AROUND THE ROOT BALL IS NOT LONGER ACCEPTABLE.
5. EACH TREE RECEPTACLE BOX AND PROTECTIVE COVER SHALL BE METALIC. EACH RECEPTACLE SHALL USE FLEXIBLE AND ROBUST TECK CABLES, PULLED THROUGH THE ABOVE NOTED RPVC CONDUIT. EACH TECK CABLE ENDS SHALL BE TERMINATED WITH TECK CONNECTORS IN THE RECEPTACLE FS BOXES AND JUNCTION BOXES. CONDUCTORS WITHIN TECK CABLES SHALL BE NUMBER 12 RW90, STRANDED COPPER, INSULATED, AND COLOUR CODED PER DRAWINGS.
6. EACH DECORATIVE / SEASONAL RECEPTACLE SHALL BE PROVIDED WITH AN IDEAL INDUSTRIES OR BUCHANAN CONSTRUCTION PRODUCTS 65 KIT WATER-PROOF FUSE-HOLDER, OR APPROVED EQUIVALENT. EACH FUSE-HOLDER SHALL BE PROVIDED WITH ONE 5-AMPERE BUSS KTK OR MERSEN ATM TYPE FUSE, WIRED IN THE LIVE CONDUCTOR.
7. ALL FUSE-HOLDER(S) SHALL BE ACCESSIBLE FROM THE POLE HAND-HOLE ACCESS OR IN NEARBY JUNCTION BOXES. ALL FUSE-HOLDERS SHALL BE MARKED WITH YELLOW WIRE MARKER TAGS, ATTACHED USING TIE-WRAPS. LABELLING SHALL BE WITH A WATERPROOF INK PEN.
8. POLE MOUNTED RECEPTACLES SHALL BE PROVIDED WITH AN EYE BOLT ABOVE THE RECEPTACLE, FOR ATTACHMENT OF SPAN SUPPORT CABLING. REFER TO CITY OF COQUITLAM SUPPLEMENTAL DRAWING #SS-E7.19.
9. IF ABOVE GROUND EXTENSION CORDS ARE REQUIRED, EACH CABLE SHALL BE SOOW CABRILE, SUITABLE FOR OUTDOOR USE, UV-PROTECTED AND FOR WET LOCATIONS. EACH END SHALL BE ROBUST UV-STABILIZED MALE AND FEMALE CONNECTORS.
10. ABOVE GROUND SPANS SHALL BE STAINLESS STEEL AIRCRAFT CABLE AND CLAMPS, TO SUPPORT THE EXTENSION CORDS. THE EXTENSION CORDS SHALL BE ATTACHED TO THE SPAN CABLE WITH UV-STABILIZED TIE-WRAPS.
11. RECEPTACLES ON BLACK PHASE CONDUCTOR ARE IDENTIFIED WITH A 'B' DESIGNATION NEXT TO THE RECEPTACLE.
12. RECEPTACLES ON RED PHASE CONDUCTOR ARE IDENTIFIED WITH AN 'R' DESIGNATION NEXT TO THE RECEPTACLE.

#### LEGEND

- ☼ PROPOSED POST TOP STREETLIGHT POLE (4.5m - 80W LED TYPE 4AH DISTRIBUTION). REFER TO SHEET 2 FOR DETAILS
- ☼ PROPOSED POST TOP STREETLIGHT POLE (6.0m - 80W LED TYPE 2ES DISTRIBUTION)
- ☼ PROPOSED MODIFICATION TO POST TOP STREETLIGHT POLE (4.5m - NEW 80W LED TYPE 4AH DISTRIBUTION)
- ☼ EXISTING POST TOP STREETLIGHT POLE (6.0m - WATTAGE AS NOTED, LED TYPE 2ES DISTRIBUTION)
- ☼ EXISTING POST TOP STREETLIGHT POLE (4.5m - 69W LED TYPE 4AH DISTRIBUTION)
- R LUMINAIRE ON RED PHASE CONDUCTOR
- B LUMINAIRE ON BLACK PHASE CONDUCTOR
- J EXISTING JUNCTION BOX
- UE— PROPOSED 35mm RPVC (REFER TO SITE PLAN FOR CONTENTS)
- UE— EXISTING CONDUIT AND CONDUCTORS

NOT FOR CONSTRUCTION  
2026-01-21

BC CALL BEFORE YOU DIG  
1-800-474-6886  
or by CELLULAR 403-888-0000  
Vancouver Area 257-9140

CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

CO. ASBUILT No.

EXXX

Benchmark:  
Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.  
Plot Date: January 21, 2026

**DMD**  
DMD & Associates  
Electrical Consultants Ltd.  
#12-17958 104A Avenue, Surrey, BC, Canada V4N 5M3  
www.dmdconsultants.com office@dmicons.com Fax 604-588-0502  
DMD PROJECT No. 8601-25-01 of 03

ACCEPTED FOR CONSTRUCTION  
Date: 1 2026-01-21 CH ISSUED FOR TENDER  
0 2026-01-08 CH 90% SUBMISSION  
No. Date By Revisions

**Coquitlam**  
Engineering & Public Works  
3000 Guildford Way, Coquitlam, BC, V3B 7N2  
Manager of Development Servicing

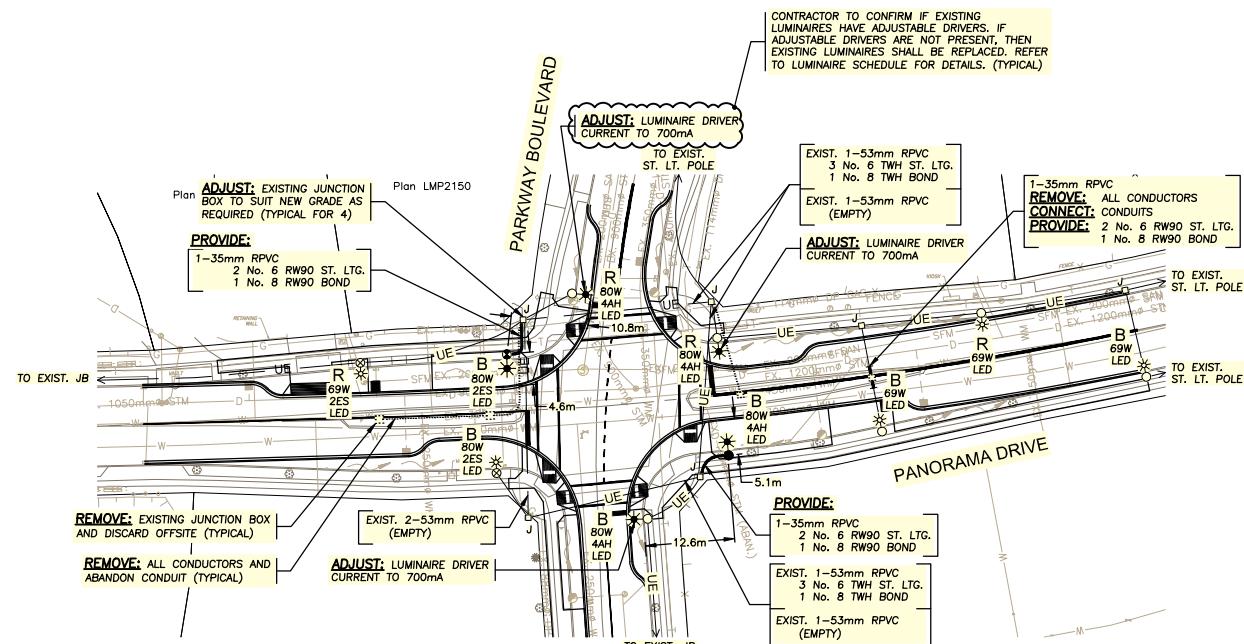
PERMIT TO PRACTICE  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
PERMIT NUMBER: 1000771  
The Association of Professional Engineers and Geoscientists of British Columbia

Seal  
2026-01-21  
PROFESSIONAL  
ENGINEER  
# 35181  
M. M. CETNAROWSKI  
COQUITLAM

Design by CH  
Drawn by REK  
Checked by RAC  
Approved by MC

Date: 24-10-2025  
Date: 24-10-2025  
Date: 24-10-2025  
Date: 08-01-2026

Scale: N/A  
Sheet of 1 OF 3  
Eng. Project No.  
Description: PARKWAY BOULEVARD AND PANORAMA DRIVE INTERSECTION LIGHTING  
File: 8601-25



SITE PLAN  
1:500

INTERSECTION DESIGN CRITERIA PER: (CITY BYLAW 3558)		
INTERSECTION (NAME)	PANORAMA DRIVE	PARKWAY BOULEVARD
LAND USE CLASSIFICATION	RESIDENTIAL	RESIDENTIAL
ROADWAY CLASSIFICATION & WIDTH	COLLECTOR	LOCAL
PEDESTRIAN CONFLICT	MEDIUM	MEDIUM
ILLUMINANCE RECOMMENDED/EXISTING	16.0 LUX	17.9 LUX
UNIFORMITY RECOMMENDED/EXISTING	4.0:1	1.7:1
LIGHT LOSS FACTOR	0.84	
EQUIPMENT		
Fixture Type: LED	Wattage: 80W (PROPOSED)	MTG. Height: 4.5m
IES File:	NXT-36S-700mA-4AH-4000K.ies	Model: NXT 36S SERIES
Fixture Type: LED	Wattage: 69W (EXISTING)	MTG. Height: 6.0m
IES File:	NXT-36S-600mA-2ES-4000K.ies	Model: NXT 36S SERIES
Fixture Type: LED	Wattage: 80W (EXISTING & PROPOSED)	MTG. Height: 6.0m
IES File:	NXT-36S-700mA-2ES-4000K.ies	Model: NXT 36S SERIES

\* EXISTING LUMINAIRE INFORMATION PER CITY GIS.

\*\* BASED ON 20 YEAR FIXTURE LIFE AND 10 YEAR CLEANING CYCLE.

NOT FOR CONSTRUCTION  
2026-01-21

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

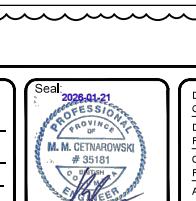
CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING BASES.



COQ. ASBUILT No.

EXXXX

120V SERVICE LOAD (EXISTING 100A-120/240V SERVICE BASE ON PANORAMA DRIVE)						
WATTAGE (W)	CCT.PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT(A)
54W ST. LTG. (LED)	R	1	0	0	1	0.45A
	B	1	0	0	1	0.45A
69W ST. LTG. (LED)	R	12	2	0	10	5.75A
	B	10	1	0	9	5.16A
80W ST. LTG. (LED)	R	0	0	2	2	1.33A
	B	1	0	3	4	2.67A



Design by CH	Date 24-10-2025	Scale 1:500
Drawn by REK	Date 24-10-2025	Sheet of 2 OF 3
Checked by RAC	Date 24-10-2025	Eng. Project No.
Approved by MC	Date 05-01-2026	

Project

PARKWAY BOULEVARD AND  
PANORAMA DRIVE  
INTERSECTION LIGHTING

File: 8601-25

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

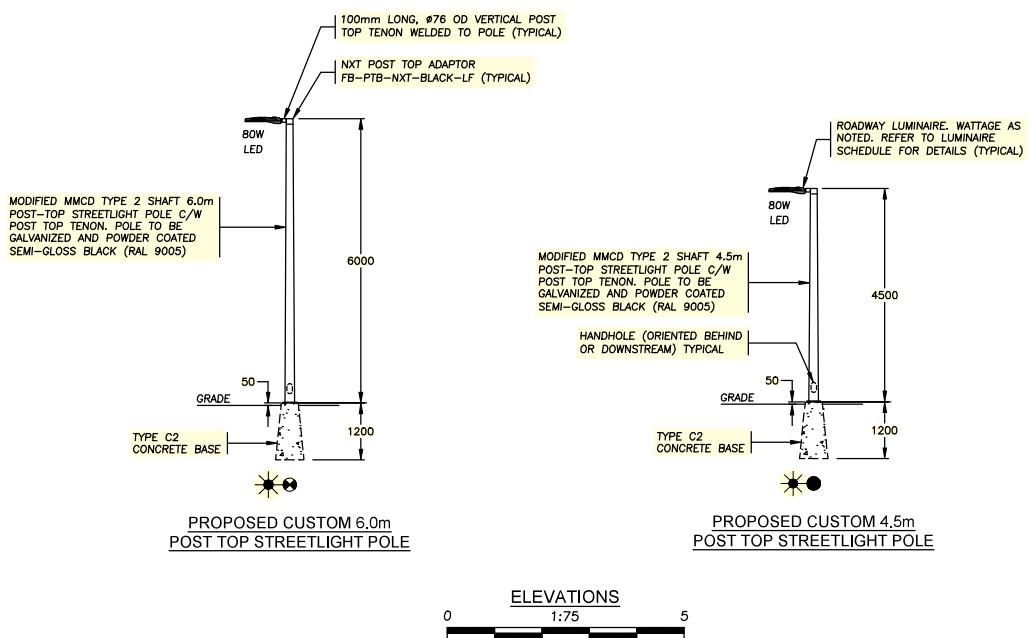
<b>DMD</b> DMD & Associates Electrical Consultants Ltd.	
#12-1758 104A Avenue, Surrey, BC, Canada V4N 0M3 www.dmders.com office@dmders.com Fax 604-538-4012 DMD PROJECT No. 8601-25-02 of 03	

ACCEPTED FOR CONSTRUCTION Date: _____			
1	2026-01-21	CH	ISSUED FOR TENDER
0	2026-01-08	CH	90% SUBMISSION
No.	Date	By	Revisions

ACCEPTED FOR CONSTRUCTION Date: _____	
Manager of Development Servicing	

<b>Coquitlam</b> Engineering & Public Works 3000 Guildford Way, Coquitlam, BC, V3B 7N2	
----------------------------------------------------------------------------------------------	--

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



LUMINAIRE SCHEDULE			
PRODUCT	MANUFACTURER	SPECIFICATION	EXCEPTIONS
ROADWAY LUMINAIRE	LIVEABLE CITIES	80W: NXT-36S-5-7-4AH-7-BK-3-UL-S-2H 80W: NXT-36S-5-7-2ES-7-BK-3-UL-S-2H	C/W NEMA WATTAGE LABEL & SHORTING CAP, 4000K

NOT FOR CONSTRUCTION  
2026-01-21



COQ. ASBUILT No.  
EXXXX

REFER TO THE CITY OF COQUITLAM  
STREET LIGHTING APPROVED PRODUCTS  
LIST FOR ALL EQUIPMENT DETAILS

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

<b>DMD</b> DMD & Associates Electrical Consultants Ltd.	
#10-17958 104A Avenue, Surrey, BC, Canada V4N 5M3 www.dmders.com      Tel: 604-593-4010 office@dmders.com      Fax 604-593-2012	
DMD PROJECT No. 8601-25-03 of 03	

ACCEPTED FOR CONSTRUCTION Date: _____			
Manager of Development Servicing			
1	2026-01-21	CH	ISSUED FOR TENDER
0	2026-01-08	CH	90% SUBMISSION
No.	Date	By	Revisions

ACCEPTED FOR CONSTRUCTION  
Date: \_\_\_\_\_

**Coquitlam**  
Engineering & Public Works  
3000 Guildford Way, Coquitlam, BC, V3B 7N2

PERMIT TO PRACTICE  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
PERMIT NUMBER: \_\_\_\_\_  
The Association of Professional Engineers and Geoscientists of British Columbia



Design by CH	Date 24-10-2025	Scale 1:500
Drawn by REK	Date 24-10-2025	Sheet of 3 OF 3
Checked by RAC	Date 24-10-2025	Eng. Project No. _____
Approved by MC	Date 08-01-2026	File: 8601-25

Project  
**PARKWAY BOULEVARD AND PANORAMA DRIVE INTERSECTION LIGHTING**